전 병 훈 (Byong-Hun Jeon), Ph. D.

WORK ADDRESS

Professor

Department of Earth Resources and Environmental Engineering,
Hanyang University
Room 1207, ITBT Building, Hanyang University, 222 Wangsimni-ro,
Seongdong-gu, Seoul 04763, Republic of Korea
Webpage: http//bhjeon.hanyang.ac.kr
E-mail: bhjeon@hanyang.ac.kr
Tel: 82-02-2220-2242; Cell: 82-10-7532-7129; Fax: 82-02-2220-4042
한문성명: 田秉勳

EDUCATION

The Pennsylvania State University, University Park, PA
Doctor of Philosophy, Dept. of Civil & Environmental Engineering, December 2001
The Pennsylvania State University, University Park, PA
Master of Science, Dept. of Civil & Environmental Engineering, December 1998
Hanyang University, Seoul
Bachelor of Science, Dept. of Mineral and Petr199oleum Engineering, February 1996

EXPERIENCES

Jun. 2019-present	**Hanyang University,** Seoul, South Korea Director of Leaders in Industry-University Cooperation (LINC),
Sep. 2014-presen	**Hanyang University**, Seoul, Korea Professor in the Department of Earth Resources and Environmental Engineering.
Jan. 2018-Jun. 2019	**Hanyang University**, Seoul, Korea Head Professor in the Department of Earth Resources and Environmental Engineering.
Mar. 2014-Aug. 2014	**Yonsei University**, Gangwon, Korea Professor in the Department of Environmental Engineering.
Mar. 2009-Feb. 2014	**Yonsei University**, Gangwon, Korea Associate Professor in the Department of Environmental Engineering.
Sep. 2011-Aug. 2012	**The Pennsylvania State University**, University Park, PA Visiting Scholar in the Department of Civil & Environmental Engineering.
Mar. 2010-Aug. 2011	**Yonsei University**, Gangwon, Korea Head Professor in the Department of Environmental Engineering.
Sep. 2005-Feb. 2009	**Yonsei University**, Gangwon, Korea Assistant Professor in the Department of Environmental Engineering.
May. 2004-July. 2005	**The Pacific Northwest National Laboratory**, Richland, WA Post-doctoral researcher in Environmental Dynamics and Simulation group.
June. 2002- Apr. 2004	**The University of Alabama**, Tuscaloosa, AL *Non*-tenure track research scientist in the Department of Biological Sciences.

Jan. 2002- May. 2002 **The Pennsylvania State University**, University Park, PA
Post-doctoral researcher in the Department of Civil & Environmental Engineering.

HONOR AND ACTIVITY

- Advisory member of the new and renewable energy R&D project. Korea Energy Technology Evaluation Institute(한국에너지기술평가원). 2023
- HCP Best Researcher Award, Hanyang University, 2022
- Best Researcher Award, best international paper (engineering), Hanyang University, 2022
- Minister of Trade, Industry and Energy Award(산업통상자원부 장관상). 2022.
- Chairman of the LINC+ Seoul council. May 2021-February 2022.
- Vice-chairman of the LINC+ national council. May 2021-February 2022.
- Committee Member for National Examination of Professional Engineer in Mining. 2018-present.
- **Byong-Hun Jeon**, Director of Leaders in Industry-University Cooperation (LINC) of Hanyang University, Seoul, South Korea, June 2019-present.
- Best Researcher Award, best international paper (engineering), Hanyang University, 2021
- Best thesis researcher, Hanyang University, 2021
- Outstanding researcher award, the field of international researcher, Hanyang University.
- **Byong-Hun Jeon**, Chair of Reviewers Board for National Research Foundation of Korea, Ministry of Education, South Korea, Novermber 2019-November 2021.
- **Byong-Hun Jeon**, Best Hanyang Professor Award in Research, December 11th 2019, Hanyang University, South Korea.
- **Byong-Hun Jeon**, Best Hanyang Professor Award in Research, June 25th 2018, Hanyang University, South Korea.
- **Byong-Hun Jeon**, Best Hanyang Professor Award in Research, June 25th 2017, Hanyang University, South Korea.
- **Byong-Hun Jeon**, Sanjay P. Govindwar. 에너지 회수율 극대화를 위한 미세조류 구성 바이오매스의 종합적인 전환 기술 개발. 해외고급과학자초빙사업(BP) 우수성과 11선 사례. 한국연구재단 (National Research Foundation of Korea). October 2019.
- The 23rd Executive Director of the Korean Society of Environmental Engineers (대한환경공학회).
- Advisory Committee Member for Public Procurement Service (조달청) in environmental field. 1st January 2021-31th December 2023.
- Advisory Committee Member for SMTECH (중소기업 기술개발 지원사업). 24th September 2019-24th September 2021.
- Advisory Committee Member for Environmental Facility Private Business, Korea Environment Cooperation. 1st September 2019-31st August 2022.
- Advisory Committee Member for Mining Hazard Prevention Reclamation, Mine Reclamation Corporation, South Korea. 28th May 2019-27th May 2021.
- Organizer of the Division of Geochemistry: Microbial interactions in natural, geological processes and their application in remediation of contaminants. 257th ACS National Meeting and Exposition. Orlando, Florida, USA. 31st March- 4th April 2019.
- Outstanding reviewer of Water Research, Journal of Hazardous materials, Bioresource Technology, Journal of Cleaner Production, Environmental Pollution, Chemosphere, Energy, Renewable Energy, Algal Research et.
- Executive director of the Korean Society of Clean Technology, 2019.
- Organizer of Clean Fusion Session in the Korean Society of Clean Technology Conference, Kimdaejung Convention Center, Kwangju, South Korea. September 12-14th 2018.
- Session Chair of Bioavailability/Bioaccessibility of Contaminants Session in the 4th International Conference on Contaminated Land, Ecological Assessment and Remediation, The Hong Kong polytechnic university, Hong Kong, China, August 16-18th, 2018.

- Scientific Committee member for the 4th International Conference on Contaminated Land, Ecological Assessment and Remediation, The Hong Kong polytechnic university, Hong Kong, China, August 16-18th, 2018.
- Organizer of Geochemistry Session in 255th American Chemical Society National Meeting in Exposition, Morial Convention Center, New Orleans, United States, 18-26th March 2018.
- Session Chairman of Geochemistry Session in 255th American Chemical Society National Meeting in Exposition, Morial Convention Center, New Orleans, United States, 18-26th March 2018.
- Organizer of Clean Fusion Session in the Korean Society of Clean Technology Conference, The-K Hotel, Gyeongju, Korea, March 28-30th, 2018.
- Session Chairman of Clean Fusion Session in the Korean Society of Clean Technology Conference, The-K Hotel, Gyeongju, Korea, March 28-30th, 2018.
- Session Chairman of Geochemistry Session in 253rd American Chemical Society National Meeting & Exposition, San Francisco Marriott Union Square, San Francisco, CA, United States, 2-6th April 2017.
- Organizer of Geochemistry Session in 253rd American Chemical Society National Meeting & Exposition, San Francisco Marriott Union Square, San Francisco, CA, United States, 2-6th April 2017.
- Session Chairman of Clean Fusion Session in the Korean Society of Clean Technology conference, The Westin Chosun, Seoul Hotel, Busan, Korea, March 29-31th, 2017.
- Organizer of Clean Fusion Session in the Korean Society of Clean Technology conference, The Westin Chosun, Seoul Hotel, Busan, Korea, March 29-31th, 2017.
- Best oral presentation in the Korean Society of Mineral and Energy Resources Conference. Hotel Hyundai, Gyeongju, South Korea. 3-4th November 2016.
- Session Chair of New and Renewable Energy for the Korean Society of Mineral and Energy Resources Conference. Hotel Hyundai, Gyeongju, South Korea. 3-4th November 2016.
- Organizer of Clean Fusion Session in the Korean Society of Clean Technology conference, Hotel Lewin, Jeonju, South Korea. 28-30th September 2016.
- Session Chair of New and Renewable Energy for the Joint Fall Korean Society of Mineral and Energy Resources Engineers (KSMER) conference. 호텔인터불고 원주. South Korea. 14-15th April 2016.
- Organizer of Clean Fusion Session in the Korean Society of Clean Technology conference, Bexco, Busan, Korea, September 16-18th, 2015.
- Best poster presention in the Korean Society of Clean Technology conference, Bexco, Busan, Korea, September 16-18th, 2015.
- Best oral presentation in the Korean Society of Clean Technology conference, Bexco, Busan, Korea, September 16-18th, 2015.
- **Byong-Hun Jeon,** Most downloaded article in "Bioprocess and Biosystems Engineering" journal, March 26th, 2015.
- Session Chair of New and Renewable Energy/Mineral Resource Development for the Joint Fall Korean Society of Mineral and Energy Resources Engineers (KSMER) conference, Phoenix Island, Jeju, Korea, November 6-8th, 2014.
- Session Chair of Environmental Remediation (IV) for the 2nd International Conference on Contaminated Land, Ecological Assessment and Remediation, October 5-8th, 2014, Chuncheon, Korea.
- Chair of Regional Committee for the 2nd International Conference on Contaminated and, Ecological Assessment and Remediation, October 5-8th, 2014, Chuncheon, Korea.
- International Scientific Committee member for the 2nd International Conference on Contaminated Land, Ecological Assessment and Remediation, October 5-8th, 2014, Chuncheon, Korea.
- **Byong-Hun Jeon,** Best Presentation Award in the Korean Society of Environmental Engineering, August 22th, 2014.
- **Byong-Hun Jeon,** Best Research Outcome Award for 2011-2013 Brain Pool research program, Korean Federation of Science and Technology Societies, April 1st, 2014.
- **Byong-Hun Jeon,** Dr. Jeon's biohydrogen research (**published in Nature Communications**) was highlighted in the webpage of Korean Ministry of Education, Feburary 4th, 2014.

- **Byong-Hun Jeon,** Excellent Poster Presentation Award in the meeting of the Institute of Convergence Science (ICONS), Yonsei University, December 20th, 2013.
- **Byong-Hun Jeon,** Best Article Award in the Korean Society of Odor Research and Engineering, November 28th, 2013.
- Best Thesis Award (Ph.D. Thesis: Jaehoon Hwang) in the academic field of Applied and Natural Science, Yonsei University, November 7th, 2013.
- **Byong-Hun Jeon,** Best Presentation Award in the Korea Society of Environmental Engineering, June 12th, 2013.
- **Byong-Hun Jeon,** Best Paper Presentation Award in the Korean Society for New and Renewable Energy, May 30th, 2013.
- **Byong-Hun Jeon,** Best Yonsei Professor Award in Research, Februray 6th, Yonsei University, South Korea, 2013.
- **Byong-Hun Jeon,** Best Yonsei Professor Award in Research, June 25th, Yonsei University, South Korea 2012.
- **Byong-Hun Jeon,** Candidate for 2012 ENI Award for the contribution in "Renewable and Non Conventional Energy", November 17th, The ENI Award Scientific Secretariat, Italy, 2012.
- **Byong-Hun Jeon,** Best Yonsei Profssor Award in research, December 2nd, Yonsei University, South Korea, 2011.
- **Byong-Hun Jeon,** Dr. Jeon's bioenergy research was highlighted in NEWS of Korean Ministry of Education, Science and Technology, August 4th, 2011.
- **Byong-Hun Jeon,** Best Article Award, Jae-Hoon Hwang, Yonsei University, 2010.
- 3rd Place Award for the oral presentation in the Women in Science and Engineering (WISE), held on August 6th, 2010, Yonsei University, South Korea.
- Best Article Award in the Korean Society for New and Renewable Energy Conference, Conference Hall of Jeollabuk-do, November 25-27th, 2009.
- Best Environmental Protection Award from the Minister of Environment (환경부장관상표창) in memory of the 31st anniversary of the announcement of charter of natural environment protection, Octobor 6th, 2009.
- Best Presentation Award for the oral presentation in the Advanced Ground Combat System Conference, held on September 16th, 2009, Daejeon Convention Center (DCC), South Korea.
- Best Presentation Award for the oral presentation in the Chuncheon Global Water Forum Conference, held on September 3-4th, 2009, Ladena Resort, South Korea.
- Best Presentation Award for the oral presentation in the Korean Society of Soil and Groundwater Environment Conference, held on October 9-10th, 2008, Pohang University of Science and Technology (POSTECH), South Korea.
- Excellent Research Award in Sustainable Water Resources Research, 21c Frontier R&D Program, 2008.
- Dr. **Byong-Hun Jeon** was listed for Greatest Intellectuals of the 21st Century in 2008 by IBC, England.
- Dr. **Byong-Hun Jeon** was listed for 2000 Outstanding Intellectuals of the 21st Century-Honors List in 2008 by IBC, England.
- Dr. **Byong-Hun Jeon** was listed for IBC Foremost Educators of the World for 2008 by IBC, England.
- Dr. **Byong-Hun Jeon** was listed for 2007/2008 Edition of Great Minds of the 21st Century by the American Biographical Institute, Inc.
- Dr. **Byong-Hun Jeon** was listed in Leading Engineers of the World, 2008.
- Dr. **Byong-Hun Jeon** was listed in 2000 Outstanding Intellectuals of the 21st Century.
- Dr. **Byong-Hun Jeon** was listed in Who's Who in the world, 2008-2012.
- Dr. **Byong-Hun Jeon** was listed in Who's Who in America, 2007-2010.
- Session chair (session title: Biogeochemical processes in subsurface sediments: Characterization and modeling) in 2006 Western Pacific Geophysics Meeting (WPGM), July 24-27th, 2006, Beijing, China.
- Session convenor with Drs. Chongxuan Liu and Zheming Wang (both at the Pacific Northwest National Lab. in WA, USA) in 2006 Western Pacific Geophysics Meeting (WPGM), July 24-27th,

2006, Beijing, China.
- Honorable Mention Award in CECG symposium (in oral presentation)-Penn State Univ., 2001
- Korean Graduate Association-Treasurer, Penn State Univ., 2000
- Best Abstract Award in CECG Symposium-Penn State Univ., 1999
- 3rd place winner, Korean Graduate Student Racquetball Competition, 1999
- Hanyang University Alumni Association at Penn State-Secretary, 1997-1998
- Korean Graduate Association-Secretary, Penn State Univ., 1998
- Community Scholarship in honor of best study, 1987 and 1994
- College Scholarship in honor of best study-Hanyang Univ., 1993 and 1995
- Military service-The 5th Division, 1990-1992

PROFESSIONAL SERVICE

- Editorial board member:
  - Energies (SCIE Journal, 2018-2020)
  - Disaster Advances (SCIE Journal)
  - Research Journal of Chemistry and Environment (SCIE Journal)
  - The English Journal of the Korean Society for Geosystem Engineering
  - Chemical and Environmental Research
  - Pollution (since 2015)

- Reviewer for:
  - Algal Research
  - Bioresource Technology
  - Chemosphere
  - Energy
  - Energy Conversion and Management
  - Energy & Environmental Science (EES)
  - Environmental Pollution
  - Environmental Science & Technology (ES&T)
  - International Journal of Hydrogen Energy
  - Journal of Cleaner Production
  - Journal of Environmental Management
  - Journal of Hazardous Materials
  - Process Biochemistry
  - Renewable Energy
  - Water Research

- International advisory committee of Emerging Trends in Bioscience and Chmical Technology, 2022
- Advisory member of the new and renewable energy R&D project. Korea Energy Technology Evaluation Institute(한국에너지기술평가원). 2023
- Technical advisory committee of the Ministry of Oceans and Fisheries (해양수산부), 3nd term of design review committee. April 10th, 2021 – April 9th, 2022.
- Consulting contract with K-water (Korea Water Resources Coporation) research center, September 21th, 2020-October 7th, 2020.
- Committee member of smart ecological factory construction and green innovation cooperation project, K-eco(Korea Environment Coporation, 한국환경공단), August 26th, 2020-Augus 25 th, 2022.
- Evaluation Committee member, KISTEP(한국과학기술기획평가원), R&D proposal evaluation: Evaluated Multi-Governmental Parties Funded Research Proposals, 2020.
- Committee of National Institute of Environmental Research (국립환경과학원), national public official

recruitment examination committee. January 1st, 2020-December 31 th, 2020.

- Member of the technical advisory committee of Ministry of Oceans and Fisheries (해양수산부), 4nd term of technical advisory committee. May 27th, 2020 – November 31th, 2021.
- Responsible professional member for ICT·convergence research group at the basic research headquarters of the National Research Foundation of Korea (NRF, 한국연구재단). November 1st, 2019-October 31th, 2021.
- Committee of The korea Environment Corporation (한국환경공단). 4th member of committee of private business of environmental facilities. September 1st, 2019-October 31th, 2022.
- General director of The Korea Society of Clean Technology (한국청정기술학회). , January 1st,2019 - December 31th, 2019.
- Member of the 8th Technical Advisory Design Deliberation Committee in Korea Environment Corporation for evaluation of technology-type bidding project. 29th October 2018-28th October 2019.
- Professor of Social Service Group (Hanyang University), March 1st, 2018-February 28th, 2019.
- Committee member in Korea Evaluation Institute of Industrial Technology since, October 25th,2011 - December 31th, 2019.
- Committee of The Korea Environment Corporation (한국환경공단). 8th committee of technical advisory design review division. October 29th, 2018-October 28th, 2019.
- Refree of Gyeonggi provincial government employee examination question. May 6th, 2017.
- Committee of mining resource sector national technical qualification test. Korea Mine Reclamation Corporation (한국광해관리공단). April 1st,2016-May 31th, 2021.
- Refree of Gyeonggi provincial government employee examination question. September 14th, 2015.
- Reviewer of International Proposal from United States-Israel Binational Science Foundation (BSF) in Environmental research (air, water, soil): Water pollution (identification, measurement, management and control), September 2015.
- Adbisory Committe of Korea Mine Reclamation Corporation (한국광해관리공단). 4~6th advisory committee on the mine damage prevention project. May 28th, 2015-May 27th, 2021.
- Committee of Wonju regional environment agency (원주지방환경청), environmental impact review committee of drinking spring water (먹는샘물). May 20th, 2015-May 19th, 2019.
- Advisory board member in Korea Environment Corporation (한국환경공단). Technical advisory in soil ground water field of Korea Environment Corporation Technical advisory committee. May 1st, 2015-August 31th, 2019.
- Consultant of Wonju regional environment agency (원주지방환경청). An expert consultant of environmental impact assessment. april 26th, 2015-April 15th, 2017.
- Academic director of The Korea Society of Clean Technology (한국청정기술학회), January 1st, 2015-Decembert 31th, 2017.
- Committee member for Jungbong Ecological Restoration Committee, Gangwon-Do Principal Office, Octobor 13th, 2014-October 12th, 2015.
- Cyber Environment Consultant of Korea Environmental Industry and Technology Institute. Development of basic technology for zero mine waste emission. September 24th, 2014-September 23th, 2015.
- Committee member of Korea Institute of Geoscience and Mineral Resources, October 1st, 2014-May 31th, 2015.
- Academic director in the Korean Society of Clean Technology since 2014
- Director, Korea Society of Groundwater and Soil since 2014
- Admission officer in Yonsei University since 2013
- Assistant administrator in professor council (Yonsei University) since 2013
- Committee member in academic affairs office (Yonsei University) since 2013
- Committee member in Scientific Exhibition of Kangwon-do since 2013

- Consultant in Korea Environmental Industry & Technology Institute since 2013
- Director, Korean Society of New and Renewable Energy since 2013
- Member, Korean Society of Environmental Engineering since 2013
- Director, The Korea Academy of Hot Spring since 2010
- Consultant in Department of Environment at Wonju since 2008
- Committee member in Mine Reclamation Corporation since 2007
- KOSSGE (Korean Society of Soil and Groundwater Environment) member since 2007
- ACS (American Chemical Society) member since 2003

CONSULTING

June 1999 – Aug 1999	Treatment of quench water at the Corning-Asahi plant in State College (PA). Identify ways to remove contaminants from the water for either possible re-use or ultimate discharge to the Logan Branch of Spring Creek.

PATENT

1. Byong-Hun Jeon, Do-Hyeon Kim, Kumar Ramesh, Geon-Soo Ha, 나노여과막 시스템을 이용한 몰리브데이트 용액 농축 방법, Method for up-concentration of molybdate solution using nanofiltration membrane system, Korea Patent No. **10-2021-0046105. (2021-04-08)**
2. Moonis Ali Khan, Byong-Hun Jeon, Ayoub Abdullah Alqadami, El-Sayed Salama. Magnetic hydrochar synthesized from microalgal biomass. Patent Docket Number **33056.47. (2020-11-05)**
3. Byong-Hun Jeon, Geon-Soo Ha, Mayur B. Kurade, Gyeong-Uk Kim. 미세조류를 이용한 바이오연료 생산 방법, Method for biofuel production using microalgae, Korae Patent No. **10-2020-0114051. (2020-09-07)**
4. Byong-Hun Jeon, Hoo Kim, Mayur B. Kurade, Saha Shouvik, El-Sayed Salama. 하수 슬러지와 지방, 기름 및 그리스의 혐기성 병합 소화를 위한 혐기성 미생물 균주군 확보 방법, Method for constructing anaerobic microbial consortium for anaerobic codigestion of sewage sludg, fat, oil and grease. Korea Patent Registration Number **1021385840000. (2020-07-22)**
5. **Byong-Hun Jeon**, Hoo Kim, El-Sayed Salama, Saha Shouvik, Mayur B. Kurade. FOG를 이용한 메탄 생산 공정에서의 FOG 칼슘 전처리를 통한 지방산의 독성 저감 및 메탄 생산량 증대. Method of fat, oil, and, grease (FOG) pretreatment via addition of calcium for decreasing the toxicity of fatty acids and enhancing biomethane production. Korea Patent Registeration Number **1020190074692. (2019-06-24)**
6. **Byong-Hun Jeon**, Hoo Kim, El-Sayed Salama, Shouvik Saha, Mayur B. Kurade. 식물성장 조절제를 이용한 미세조류 바이오매스 생산방법. Methods for preparation of microalgae biomass using the plant growth regulators. Korea Patent Registration Number **1020170019561. (2017-02-22)**
7. **Byong-Hun Jeon**, Jae-Hoon Hwang, 클로렐라 불가리스 YSL001 균주를 이용한 수소의 생산방법. Korea Patent Registration Number **1016402870000. (2016-07-11)**
8. **Byong-Hun Jeon**, El-Sayed Salama, Min-Kyu Ji, 산성관산배수를 이용한 바이오매스 회수방법. Method for biomass recovery using acid mine wastewater, Korea Patent Registration Number **1016402970000. (2016-07-11)**
9. **Byong-Hun Jeon**, Jae-Hoon Hwang, Jeong A Choi, Yongrim Kim, 산주균 클라미도모나스 멕시카나 YSL008. Novel strain *Chlamydomonas mexicana* YSL008, Korea Patent Registration Number **1015685660000. (2015-11-05)**
10. **Byong-Hun Jeon,** El-Sayed Salama, Min-Kyu Ji, Min-Sun Lee, Hoo Kim, 식물성장 조절제를 이

용한 미세조류 바이오매스 생산방법. Methods for preparation of microalgae biomass using the plant growth regulators, Korea Patent Registration Number **1020150113448. (2018-03-28)**

11. **Byong-Hun Jeon**, Min-Kyu Ji, El-Sayed Salama, Jae-Hoon Hwang, 하폐수 내 염도 조절을 통한 바이오디젤 생산용 담수미세조류의 대량 배양방법. Culturing method of microalgae for producing biodiesel by regulating salinity in wastewater, Korea Patent Registration Number **1014790290000. (2014-12-29)**
12. **Byong-Hun Jeon**, Sang-Hoon Lee, Jae-Hoon Hwang, Jeong A Choi, 신규한 로도코코스 속 균주 및 이를 이용한 퍼클로레이트 제거 방법. Novel *Rhodococcus sp.* YSPW03 strain and method for removing perchlorate using thereof, Korea Patent Registration Number **1014435060000. (2014-09-16)**
13. **Byong-Hun Jeon**, Woosik Jung, Yong-Tae Ahn, Ho-Cheol Song, Dong-Wan Cho, 수중 질산성질소를 제거하기 위한 영가철 기반 수처리 공정 및 장치. Zero valent iron based water treatment process and device for the removal of nitrate, Korea Patent Registration Number **1014065260000. (2014-06-03)**
14. **Byong-Hun Jeon**, Jae-Hoon Hwang, 호기/혐기 조건에서 수소 생산이 가능한 신균주 클로렐라 불가리스 YSL001. A novel algal strain *Chlorella vulgaris* YSL001 for hydrogen production in both aerobic and anaerobic conditions, Korea Patent Registration Number **1013987270000. (2014-05-16)**
15. **Byong-Hun Jeon**, Min-Kyu Ji, Hyun-Shik Yun, 하폐수 및 폐광산 배수를 이용한 바이오디젤 생산용 담수미세조류의 배양방법. Culturing method of microalgae for producing biodiesel by using wastewater and abandoned mine drainage, Korea Patent Registration Number **1013825330000. (2014-04-01)**
16. Dong-Wan Cho, Ho-Cheol Song, **Byong-Hun Jeon**, Yong-Je Kim, 음이온성 오염물 제거를 위한 양이온성 모노머를 담지한 활성탄 흡착제 및 이를 이용한 수처리방법. Activated cabon including cationic polymer for removing anionic contaminant and Method for water treatment using the same, Korea Patent Registration Number **1013348640000. (2013-11-25)**
17. **Byong-Hun Jeon**, Seung-Yeon Cho, Ki-Jung Paeng, Eun-Do Gee, Hyun-Shik Yun, Woosik Jung, 다공성 알긴산 겔을 포함하는 복합체의 제조방법. Preparation method of complex comprising a porous alginic acid gel, Korea Patent Registration Number **1012925240000. (2013-07-29)**
18. Gi-hyun Lee, **Byong-Hun Jeon,** Jae-Sun Park, 영가 마그네슘을 이용한 크롬 6가 이온의 제거방법. A process of removing hexavalent chromium by using zero-valent magnesium, Korea Patent Registration Number **1012455470000**. **(2013-03-14)**
19. Su-Nam Kim, Jae-Young Choi, **Byong-Hun Jeon**, Jae-Hoon Hwang, Min-Kyu Ji, Ibrahim Abd Ei-Baky Mohamed Matter, Reda A.I. Abou-Shanab, 신규한 니트치아 푸실라 균주 및 그 용도. Novel Strain of *Nitzschia cf. pusilla* and Use Thereof, Korea Patent Registration Number **1012448360000. (2013-03-12)**
20. **Byong-Hun Jeon**, Jeong-A Choi, Jae-Hoon Hwang, Min Kyu Ji, 신균주 클로렐라 불가리스 YSW04. Novel strain *Chlorella vulgaris* YSW04, Korea Patent Registration Number **1012418310000. (2013-03-05)**
21. Booki Min, **Byong-Hun Jeon,** 살수미생물연료전지 및 조류반응조가 융합된 에너지 자립형 고도폐수 처리장치. Energy self-sufficient advanced wastewater treatment system by combination of trickling microbial fuel cells and algae reactor, Korea Patent Registration Number **1012086180000. (2012-11-29)**
22. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, 신균주 쎄네데스무스 오블리쿼스. Novel strain *Scenedesmus obliquus* YSR008, Korea Patent Registration Number **1011831310000. (2012-09-10)**
23. Ho-Cheol Song, Jae-Gon Kim, Dong-Wan Cho, **Byong-Hun Jeon**, 점토광물과 영가철 조합을 이

용한 질산성 질소 처리방법. Nitrate nitrogen treatment method using clay mineral and zero valent iron, Korea Patent Registration Number **1011642140000. (2012-07-03)**

24. **Byong-Hun Jeon**, Jeong-A Choi, Jae-Hoon Hwang, Young Hun Kim, John Yang, 신균주 쎄네데스무스 오블리쿼스 YSW15. Novel strain *Scenedesmus obliquus* YSW15, Korea Patent Registration Number **1011554350000. (2012-06-05)**
25. **Byong-Hun Jeon**, Jae-Hoon Hwang, Reda A.I. Abou-Shanab, Young Hun Kim, Jaeyoung Choi, Youngjae Kim, Chansup Choi, John Yang, Sehyeon Kim, 바이오 필터를 이용한 폐수처리 장치 및 폐수처리 시스템. Wastewater treatment apparatus and system using bio filter, Korea Patent Registration Number **1011428650000. (2012-04-27)**
26. **Byong-Hun Jeon**, Jae-Hoon Hwang, Reda A.I. Abou-Shanab, Young-Hun Kim, Oh-You Kwan, 신균주 클라미도모나스 피트쉬만니 YSL03. Novel strain *Chlamydomonas pitschmannii* YSL03, Korea Patent Registration Number **1011144260000. (2012-02-02)**
27. **Byong-Hun Jeon**, Booki Min, Ho-Cheol Song, Jae-Hoon Hwang, Young-Hun Kim, Reda A.I. Abou-Shanab, 폐수와 조류를 이용한 다단계 에너지 회수 및 이산화탄소 제어 방법. Multiple energy recovery and carbon control (MERCC) in wastewater treatment process, Korea Patent Registration Number **1011023100000. (2011-12-28)**
28. Seong-Ju Hong, **Byong-Hun Jeon**, 산성 폐수 처리용 반응기 및 이를 이용한 산성 폐수 처리방법. Acid wastewater neutralization treatment apparatus and method for treating acid waste water using the same, Korea Patent Registration Number **1010419540000. (2011-06-09)**
29. **Byong-Hun Jeon**, Reda A.I. Abou-Shanab, Jae-Hoon Hwang, Young-Hun Kim, You-Kwan Oh, *Chlamydomonas pitschmannii* YSL03 [KCTC, 11715BP], US Patent Number **PCT/KR2010/006561. (2010-09-27)**

TECHNOLOGY TRANSFER

1. Byong-Hun Jeon, Hoo Kim, Mayur B. Kurade, Saha Shouvik, El-Sayed Salama. 하수 슬러지와 지방, 기름 및 그리스의 혐기성 병합 소화를 위한 혐기성 미생물 균주군 확보 방법, Method for constructing anaerobic microbial consortium for anaerobic codigestion of sewage sludg, fat, oil and grease. Korea Patent Registration Number **1021385840000**. Transferred to Golden Engineering Co., Ltd.
2. Byong-Hun Jeon, Do-Hyeon Kim, Hoo Kim. 현장 혐기소화조 심화 생물학적 분석을 위한 핵산 보존 시료채취 기법 및 RT-qPCR/NGS 분석 프로토콜. Nucleic acid conservation sampling technique and RT-qPCR/NGS analysis protocol for advanced biological analysis of field anaerobic group. Transferred to Golden Engineering Co., Ltd.
3. **Byong-Hun Jeon**, Booki Min, Ho-Cheol Song, Jae-Hoon Hwang, Young-Hun Kim, Reda A.I. Abou-Shanab, Multiple energy recovery and carbon control (MERCC) in wastewater treatment process, Korea Patent Registration Number **10-1102310**, transferred to Global Leader Biotech Co
4. **Byong-Hun Jeon**, Jae-Hoon Hwang, Reda A.I. Abou-Shanab, Young-Hun Kim, Jae-Young Choi, Young-Jae Kim, Chan-Sup Choi, Il-Seung Yang, Seh-Yeon Kim, Wastewater treatment apparatus and system using bio filter**,** Korea Patent Registration Number **1011428650000,** transferred to Global Leader Biotech Co.

PUBLICATION

A. Published [SCI(E) Journal, Total 426]

1. Jihyeon Seo, Hyunjin Kim, Sugyeong Jeon, Soheil Valizadeh, Yasin Khani, **Byong-Hun Jeon**, Gwang

Hoon Rhee, Wei-Hsin Chen, Shiung Lam, Moonis Ali Khan, Young-Kwon Park, Thermocatalytic conversion of wood-plastic composite over HZSM-5 catalysts, *Bioresource Technology*, 373, 128702, 2023.

2. Seon-Yong Ahn, Won-Jun Jang, Jae-Oh Shim, **Byong-Hun Jeon**, Hyun-Seog Roh, CeO2-based oxygen storage capacity materials in environmental and energy catalysis for carbon neutrality: extended application and key catalytic properties, *Cayalysis Reviews*, 2023.
3. **Byong-Hun Jeon**, Morphology and stability of mineralized carbon influenced by magnesium ions, *Environmental Science and Pollution Research*, accepted, 2023.
4. Krishna Kumar Yadav, Neha Gupta, Shiv Prasad, Lal Chand Malav, Javed Khan Bhutto, Akil Ahmad, Amel Gacem, **Byong-Hun Jeon**, Ahmed M. Fallatah, Basim H. Asghar, Marina M.S.Cabral-Pinto, Nasser S. Awwad, Omar Khulaif Rashed Alharbi, Manawwer Alam, Sumate Chaiprapat, An eco-sustainable approach towards heavy metals remediation by mangroves from the coastal environment: A critical review, *Marine Pollution Bulletin*, 188, 114569, 2023.
5. Deepak Kumar Singh, Anushka Singh, Amel Gacem, Shruti Kashyap, Virendra Kumar Yadav, Krishna Kumar Yadav, Hany S. Hussein, Neeraj Kumar Shukla, Amnah Mohammed Alsuhaibani, Magda H. Abdellattif, Chaigoo Lee, Wonjae Lee, Timsi Modi, **Byong-Hun Jeon**, Multiple Site Dissimilarities of Herbaceous Species Due to Coal Fly Ash Dumping Based Soil Heavy Metal Toxication, *toxics*, 11, 90, 2023.
6. Deepak Kumar Singh, Anushka Singh, Amel Gacem, Shruti Kashyap, Virendra Kumar Yadav, Krishna Kumar Kumar, Hany S Hussein, Neeraj Kumar Shukla, Amnah Mohammed Alsuhaibani, Magda H. Abdellattif, Chaigoo Lee, Wonjae Lee, Timsi Modi, **Byong-Hun Jeon**, Coal fly ash dumping-based heavy metal toxication on the Herbaceous species, *toxics*, accepted, 2023.
7. Ayoub Alqadami, S M Wabaidur, **Byong-Hun Jeon**, Moonis Ali Khan, Co-hydrothermal valorization of food waste to hydrochar: Process optimization, characterization, and water decolorization application, *Biomass Conversion and Biorefinery*, 2023.
8. Hoesuk Yim, Soheil Valizadeh, Sumin Pyo, Chang Hyun Ko, Moonis Ali Khan, **Byong-Hun Jeon**, Kun-Yi Andrew Lin, Young-Kwon Park, Hydrogen generation from gasification of woody biomass upon acid mine drainage sludge as a novel catalyst under air medium. *Fuel*, 338, 127243, 2023.
9. Hicham Majdoubi, Ayoub A Alqadami, Rachid E Billah, Marta Otero, **Byong-Hun Jeon**, Hassan Hannache, Youssef Tamraoui, Moonis Ali Khan, Chitin-based magnesium oxide biocomposite for the removal of methyl orange from water, *International Journal of Environmental Research and Public Health*, 20, 831, 2023.
10. Vinayak Adimule, Basappa C Yallur, Sjheetal Batakurki, Chinna Bathula, Walid Nabgan, Fahad A Alharthi, **Byong-Hun Jeon**, S. Akshatha, L. Parashuram, Promoting the Photocatalytic Reduction of CO_2 and Dye degradation via Multi metallic Smx modified $CuCo_2O_4$ Reverse Spomel Hybrid Catalyst, *Ceramics International*, 49(2), 1742-1755, 2023.
11. Abid Farooq, Su Shuing Lam, Jungho Jae, Moonis Ali Khan, **Byong-Hun Jeon**, Sang-Chul Jung, Young-Kwon Park, Jet fuel-range hydrocarbons generation from the pyrolysis of saw dust over Fe and Mo-loaded HZSM-5(38) catalysts, *Fuel*, 333, 126313, 2023.
12. Farah Abu Hatab, Omar A. Z. Ibrahim, Samah E. E. Warrag, Ahmad S. Darwish, Tarek Lemaoui, M. Mujahid Alam, Taghreed Alsufyani, Violeta Jevtovic, **Byong-Hun Jeon**, Fawzi Banat, Shadi W. Hasan, Inas M. AlNashef, and Yacine Benguerba, Solvent Regeneration Methods for Combined Dearomatization, Desulfurization, and Denitrogenation of Fuels Using Deep Eutectic Solvents. *ACS omega*, 2023.
13. Yallur C Basappa, Vinayak Adimule, Walid Nabgan, Fahad A Alharthi, **Byong-Hun Jeon**. Solar-Light-Sensitive Zr/Cu-(H2BDC-BPD) Metal Organic Framework for photocatalytic dye degradation and hydrogen evolution. *Surfaces and Interfaces,* 36, 102587, 2023.
14. Brijesh Yadav; Lal Chand Malav, Abhishek Jangir, Sushil Kumar Kharia, Shruti V. Singh, Mohd D. Yeasin, Mahaveer Nogiya, Roshan Lal Meena, Ram Swaroop Meena, Bhagwati Lal Tailor, Banshi Lal Mina, Munirah Sulaiman Othman Alhar, **Byong Hun Jeon**, Marina M.S. Cabral-Pinto, Krishna Kumar Yadav, Application of analytical hierarchical process, multi-influencing factor, and geospatial techniques for groundwater potential zonation in a semi-arid region of western India, *Journal of*

Contaminant Hydrology, 253, 104122, 2023.

15. Soheil Valizadeh, Yasin Khani, Hoesuk Yim, Suhyeong Chai, Dongwon Chang, Abid Farooq, Pau-Loke Show, **Byong-Hun Jeon**, Moonis Ali Khan, Sang-Chul Jung, Young-Kwon Park, H_2 generation from steam gasification of swine manure over nickel-loaded perovskite oxides catalysts, *Environmental Research*, 219, 115070, 2023.
16. NikitaYadav, Hyun-Jo Ahn, Niraj R. Rane, Mayur B. Kurade, Xiaofang Li, Young-Kwon Park, Moonis Ali Khan, Woo Jin Chung, Soon Woong Chang, **Byong-Hun Joen**, Comprehensive study on removal of bisphenol-S and its metabolic fate using aquatic macrophytes, *Chemical Engineering Jouranl*, 455, 140967, 2023.
17. Mayur B. Kurade, Ghulam Mustafa, Muhammad Tariq Zahid, Mukesh Kumar Awasthi, Mital Chakankar, Katrin Pollmann, Moonis Ali Khan, Young Kwon Park, Soon Woong Chang, Woojin Chung, **Byong-Hun Jeon**, Integrated phycoremediation and ultrasonic-irradiation treatment (iPUT) for the enhanced removal of pharmaceutical contaminants in wastewater, *Chemical Engineering Journal*, 455, 140884, 2023.
18. Shanavaz Hamzad, K-Yogesh Kumar, M.K. Prashanth, Devi Radhika, L. Parashuram, Fahad-A. Alharti, **Byong-Hun Jeon**, M.S. Raghu, Boron doped RGO from discharged dry cells decorated Niobium pentoxide for enhanced visible light-induced hydrogen evolution and water decontamination, *Surfaces and Interfaces*, 36, 102544, 2023.
19. G. Sivaiah, R. Raveesha, S. B. Benaka Prasad, K. Yogesh Kumar, M. S. Raghu, Fahad A. Alharti, M. K. Prashanth, **Byong-Hun Jeon**, Synthesis, biological evaluation and molecular docking studies of novel pyrrolo[2,3-d]pyrimidin-2-amine derivatives as EGFR inhibitors, *Journal of Molecular Structure*, 1275, 134728, 2023.
20. Bikram Basak, Ramesh Kumar, A.V.S.L. SaiBharadwaj, Tae Hyun Kim, Jung Rae Kim, Min Jang, Sang-Eun Oh, fHyun-Seog Roh, **Byong-Hun Jeon**, Advances in physicochemical pretreatment strategies for lignocellulose biomass and their effectiveness in bioconversion for biofuel production, *Bioresource Technology*, 369, 128413, 2023.
21. Tarek A. Yousef, Abdulrahman G. Alhamzania, Mortaga M. Abou-Krisha, C.B. Pradeep Kumar, M.S. Raghue, K. Yogesh Kumar, M.K. Prashanth, **Byong-Hun Jeon**, Experimental and theoretical examinations of triazole linked saccharin derivatives as organic corrosion inhibitors for mild steel in hydrochloric acid. *Journal of Molecular Structure*, 1275, 134603, 2023.
22. Da-won Lee, Yongtae Ahn, Dong-Wan Cho, Bikram Basak, **Byong-Hun Jeon**, Jaeyoung Choi, Evaluation of pyrite/sodium hypochlorite for activating purification of arsenic from fractured-bedrock groundwater, *Environmental Pollution*, 317, 120681, 2023.
23. Krishnapillai Ramkumar, Subbaiah Muthu Prabhu, M. Hasmath Farzana, Rajesh Kumar, **Byong-Hun Jeon**, Sankaran Meenakshi, Effective arsenite adsorption from aqueous solution using N- and S-functionalized tetragonal zirconia on chitosan-derived carbon, *Separation and Purification Technology*, 306, 122669, 2023.
24. A.V.S.L. SaiBharadwaj, Subhabrata Dev, Jingshun Zhuang, Yunxuan Wang, Chang Geun Yooc, **Byong-Hun Jeon**, Srijan Aggarwal, Seung Hyun Park, Tae Hyun Kim, Review of chemical pretreatment of lignocellulosic biomass using low-liquid and low-chemical catalysts for effective bioconversion, *Bioresource Technology*, 368, 128339, 2023.
25. Yogesh Kumar k, Prashanth M K, Shanavaz Hamzada, Parashuram L, Fahad A Alharthi, **Byong-Hun Jeon**, Madihalli S Raghu, Green and facile synthesis of Strontium doped Nb_2O_5/RGO photocatalyst: Efficacy towards H_2 evolution, benzophenone-3 degradation and Cr(VI) reduction, *Catalysis Comuunications*, 173, 106560, 2023.
26. Choe Earn Choong, So Yeon Yoon, Kien Tiek Wong, Minhee Kim, Gooyong Lee, Sang-Hyoun Kim, **Byong-Hun Jeon**, Jaeyoung Choi, Yeomin Yoon, Eun Ha Choi, Min Jang, Hydrophobic sulfur core-shell layered metallic iron for nitrate reduction with nearly 100% dinitrogen selectivity: Mechanism and field studies, *Chemical Engineering Journal*, 454, 140083, 2023.
27. Bhumika Jena, Swati Sucharita Singh, Susanta Kumar Behera, Smrutirekha Mishra, Sankha Chakrabortty, Dayanidhi Meher, Bansidhar Mulia, Suraj K. Tripathy, Ramesh Kumar, **Byong-Hun Jeon**, Cecilia Stålsby Lundborg, Amrita Mishra. To decipher the phytochemical agent and mechanism

for *Urginea indica* mediated green synthesis of Ag nanoparticles and investigation of its antibacterial activity against Methicillin-Resistant *Staphylococcus aureus*. *Environmental Research*, 216, 114700, 2023.

28. Chérifa Boulechfar, Hana Ferkous, Sihem Boufas, Berredjem Malika, Amel Delimi, Souad Djellali, Amel Djedouani, Rania BAHADI, Sihem LAAMARI, Krishna Kumar Yadav, **Byong-Hun Jeon**, Wahiba Bouchelaghem, Manawwer Alam, Manawwer Alam, Synthesis, electrochemical and quantum chemical studies of some metal complexes: Mn(II), Co(II) and Zn(II) with 2-furaldehyde semicarbazone, *Journal of Molecular Structure*, 1271, 134007, 2023.

29. Neha Agarwal, Vijendra Singh Solanki, Amel Gacem, Mohd Abul Hasan, Brijesh Pare, Amrita Srivastava, Anupama Singh, Virendra Kumar Yadav, Krishna Kumar Yadav, Chaigoo Lee, Wonjae Lee, Sumate Chaiprapat, **Byong-Hun Jeon**, Bacterial Laccases as Biocatalysts for the Remediation of Environmental Toxic Pollutants: A Green and Eco-Friendly Approach—A Review, *water*, 14, 4068, 2022.

30. Alsulami Abdullah, Kumarswamy Yogesh, Prashanth Maralekere, Hamzada Shanavaz, Parashuram L, Pradeep Kumar C. B, **Jeon Byong-Hun**, Raghu Madihalli S, Fabrication of FeVO4/RGO nanocomposite: An amperometric probe for sensitive detection of methyl parathion in green beans and solar light-induced degradation, *ACS Omega*, 7, 49, 2022.
31. Abdulrahman G. Alhamzani, Tarek A. Yousef, Mortaga M. Abou-Krisha, M.S. Raghu, K. Yogesh Kumar, M.K. Prashanth, **Byong-Hun Jeon**, Design, synthesis, molecular docking and pharmacological evaluation of novel triazine-based triazole derivatives as potential anticonvulsant agents. *Bioorganic & Medicinal Chemistry Letters*, 77, 129042, 2022.
32. Hoo Hugo Kim, Shouvik Saha, Jae-Hoon Hwang, Md. Aoulad Hosen, Yong-Tae Ahn, Young-Kwon Park, Moonis Ali Khan, **Byong-Hun Jeon**, Integrative biohydrogen- and biomethane-producing bioprocesses for comprehensive production of biohythane, *Bioresource Technology*, 365, 128145, 2022.
33. Brijesh Pare, Veer Singh Barde, Vijendra Singh Solanki, Neha Agarwal, Virendra Kumar Yadav, M. Mujahid Alam, Amel Gacem, Taghreed Alsufyani, Nidhal Ben Khedher, Jae-Woo Park, Sungmin Park, **Byong-Hun Jeon**, Green Synthesis and Characterization of LED-Irradiation-Responsive Nano ZnO Catalyst and Photocatalytic Mineralization of Malachite Green Dye, *water*, 14, 3221, 2022.
34. Soheil Valizadeh, Hanie Hakimian, Abid Farooq, **Byong-Hun Jeon**, Wei-Hsin Chen, See Hoon Lee, Sang-Chul Jung, Myung Won Seo, Young-Kwon Park, Valorization of biomass through gasification for green hydrogen generation: A comprehensive review, *Bioresource Technology*, 365, 128143, 2022.
35. Jayato Nayak, Aradhana Basu, Pinaki Dey, Ramesh Kumar, Anuradha Upadhaya, Sanchari Ghosh, Bhaskar Bishayee, Smruti Rekha Mishra, Suraj K. Tripathy, Shirsendu Banerjee, Madhubanti Pal, Parimal Pal, Snehasish Mishra, Bikram Basak, **Byong-Hun Jeon**, Sankha Chakrabortty, Transformation of agro-biomass into vanillin through novel membrane integrated value-addition process: a state-of-art review, *Biomass Conversion and Biorefinery*,022-03283-6 2022.
36. Heli Patel, Virendra Kumar Yadav, Krishna Kumar Yadav, Nisha Choudhary, Haresh Kalasariya, M Mujahid Alam, Amel Gacem, Taghreed Alsufyani, Hala A Ibrahium, Jae-Woo Park, Sungmin Park, **Byong-Hun Jeon**, A Recent and Systemic Approach Towards Microbial Biodegradation of Dyes from Textile Industries, water, 14(19), 3163, 2022.
37. Arpita Roy, Shreeja Datta, Ritika Luthra, Muhammad Arshad Khan, Amel Gacem, Mohd Abul Hasan, Krishna Kumar Yadav, Yongtae Ahn, **Byong-Hun Jeon**, Green synthesis of metalloid nanoparticles and its biological applications, *Frontiers in Chemistry, section Green and Sustainable Chemistry*, 2022.
38. Shuwei Li, Minsoo Kim, Jungho Jae, Min Jang, **Byong-Hun Jeon**, Jung Rae Kim, Solid neutral red/Nafion conductive layer on carbon felt electrode enhances acetate production from CO2 and energy efficiency in microbial electrosynthesis system, *Bioresource Technology*, 363, 127983, 2022.
39. Pandi Kalimuthu, Youjin Kim, Muthu Prabhu Subbaiah, **Byong-Hun Jeon**, Jinho Jung, Novel magnetic Fe@NSC nanohybrid material for arsenic removal from aqueous media, *Chemosphere*, 308, 136450, 2022.
40. Haresh S. Kalasariyam, Nikunj B. Patel, Amel Gacem, Taghreed Alsufyani, Lisa M. Reece, Virendra Kumar Yadav, Nasser S. Awwad, Hala A. Ibrahium, Yongtae Ahn, Krishna Kumar Yadav, **Byong-**

Hun Jeon, Marine Alga *Ulva fasciata*-Derived Molecules for the Potential Treatment of SARS-CoV-2: An *in Silico* Approach, *marine drugs*, 20, 586, 2022.

41. Gokul Raghavendra Srinivasan, Ranjitha Jambulingam, Amel Gacem, Akil Ahmad, Javed Khan Bhutto, Krishna Kumar Yadav, Amine Mezni, Omar Khulaif R. Alharbi, Saiful Islam, Yongtae Ahn, **Byong-Hun Jeon**, Effect of Fuel Preheating on Engine Characteristics of Waste Animal Fat-Oil Biodiesel in Compression Ignition Engine, *polymers*, 14, 3896, 2022.
42. Hyun-Jo Ahn, Yongtae Ahn, Mayur B. Kurade, Swapnil M. Patil, Geon-Soo Ha, Paul O. Bankole, Moonis A. Khan, Soon Woong Chang, Magda H. Abdellattif, Krishna Kumar Yadav, **Byong-Hun Jeon**. The comprehensive effects of aluminum oxide nanoparticles on the physiology of freshwater microalga Scenedesmus obliquus and it's phycoremediation performance for the removal of sulfacetamide, *Environmental Research*, 215, 114314, 2022.
43. Kyoung-Jin Kim, Kyung-Won Jeon, Ga-Ram Hong, **Byong-Hun Jeon**, Jong Wook Bae, Won-Jun Jang, Yeol-Lim Lee, Hyun-Seog Roh, Elucidating the effect of Ce/Zr ratio on high temperature shift activity with sulfur poisoning. *Journal of Industrial and Engineering Chemistry*, 115, 537-543, 2022.
44. Beom-Sik Kim, Sang-Chul Jung, Ho-Young Jung, Moonis Ali Khan, **Byong-Hun Jeon**, Sang Chai Kim, The Use of Black Mass in Spent Primary Battery as an Oxidative Catalyst for Removal of Volatile Organic Compounds, *Journal of Industrial and Engineering Chemistry*, 114, 323-330, 2022.
45. Jin Sun Cha, Young-Min Kim, Im Hack Lee, Yong Jun Choi, Gwang Hoon Rhee, Hocheol Song, **Byong-Hun Jeon**, Su Shiung Lam, Moonis Ali Khan, Kun-Yi Andrew Lin, Wei-Hsin Chen, Young-Kwon Park, GwangHoon Rhee. Mitigation of hazardous toluene via ozone-catalyzed oxidation by MnOx/Sawdust biochar catalyst. *Environmental Pollution*, 312, 119920, 2022.
46. PANKAJ KUMAR, Amel Gacem, Mohammad Tauheed Ahmad, Virendra Kumar Yadav, Snigdha Singh, Krishna Kumar Yadav, Mohammad Mottahir Alam, Vinars Dawane, Satish Piplode, Parul Maurya, Marina M. S. Cabral-Pinto, Yongtae Ahn, **Byong-Hun Jeon**, Environmental and Human Health Implications of Metal(loid)s: Source Identification, Contamination, Toxicity, and Sustainable Clean-up Technologies. *Frontiers in Environmental Science*, 10, 949581, 2022.
47. Amel Gacem, Suriyaprapha R, Mohd Abul Hasan, Shakti Devi Kakodiya, Shreya Modi, Krishna Kumar Yadav, Nasser S Awwad, Saiful Islam, Sungmin Park, **Byong-Hun Jeon**, Plasmon Inspired 2D Carbon Nitrides: Structural, optical and surface characteristics for Improved Biomedical Applications, *Crystals*, 12, 1213, 2022.
48. Sangha Bijekar, Hemanshi D. Padariya, Virendra Kumar Yadav, Amel Gacem, Mohd Abul Hasan, Nasser S. Awwad, Krishna Kumar Yadav, Saiful Islam, Sungmin Park, **Byong-Hun Jeon**, The State of the Art and Emerging Trends in the Wastewater Treatment in Developing Nations, *water*, 14, 2537, 2022.
49. K. Veena, M. S. Raghu, K. Yogesh Kumar, C. B. Pradeep Kumar, Fahad A. Alharti, Prashanth M K, **Byong-Hun Jeon**, Design and synthesis of novel benzimidazole linked thiazole derivatives as promising inhibitors of drug-resistant tuberculosis. *Journal of Molecular Structure*, 1269, 133822, 2022.
50. LEMAOUI Tarek, Boublia Abir, Darwish Ahmad S., Alam Manawwer, Park Sungmin, **Jeon Byong-Hun**, Banat Fawzi, Benguerba Yacine, Alnashef Inas, Predicting the Surface Tension of Deep Eutectic Solvents Using Artificial Neural Networks. *ACS omega*, 7(36), 32194-32207, 2022.
51. Kamini Velhal, Sagar Barage, Arpita Roy, Jaya Lakkakula, Ramesh Yamgar, Mohammed S. Alqahtani, Krishna Kumar Yadav, Yongtae Ahn, **Byong-Hun Jeon**, A Promising Review on Cyclodextrin Conjugated Paclitaxel Nanoparticles for Cancer Treatment. *Polymers*, 14, 3162, 2022.
52. Xiangkai Li, Pengya Feng, Jinfeng Yang, Shuai Zhao, Zhenmin Ling, Rong Han, Ying Wu, EI-Sayed Salama, Apurva Kakade, Aman Khan, Weilin Jin, Weibing Zhang, **Byong-Hun Jeon**, Jingjing Fan, Minrui Liu, Tursunay mamtimin, Pu Liu. Human supplementation with Pediococcus acidilactici GR-1 decreases heavy metals levels through modify the gut microbiota and metabolome. *npj Biofilms and Microbiomes*, 8, 63, 2022.
53. El-Sayed Salama, **Byong-Hun Jeon**, Junling Wang, Reda A. I. Abou-Shanab, Jiu-Qiang Xiong. Editorical: Microbial Advances towards Sustainable Environment: Microbiome Structure & Integrated Technologies, *Frontiers in Microbiology,* 13, 971696, 2022.

54. Amel Seddik, Samah Athmani, Adel saoudi, Hana Ferkous, Nazih Ribouh, Djahida Lerari, Khaldoun Bachari, Souad Djellali, Malika Berredjem, Ramazan Solmaz, Manawwer Alam, **Byong-Hun Jeon**, Yacine Benguerba, Experimental and theoretical insights into copper corrosion inhibition by protonated amino-acids, *RSC Advances*, 12, 23718, 2022.
55. Bikram Basak, Swapnil M. Patil, Ramesh Kumar, Yongtae Ahn, Geon-Soo Ha, Young-Kwon Park, Moonis Ali Khan, Woo Jin Chung, Soon Woong Chang, **Byong-Hun Jeon**, Syntrophic bacteria- and *Methanosarcina*-rich acclimatized microbiota with better carbohydrate metabolism enhances biomethanation of fractionated lignocellulosic biocomponents, *Bioresource Technology*, 360, 127602, 2022.
56. Chengjia Liu, Ju-Hyeok Kwon, Subbaiah Muthu Prabhu, Geon-Soo Ha, Moonis Ali Khan, Young-Kwon Park, **Byong-Hun Jeon**, Efficiency of diesel-contaminated soil washing with different tween 80 surfactant concentrations, pH, and bentonite ratios, *Environmental Research*, 214, 113830, 2022.
57. Suriyaprabha Rajendran, Virendra Kumar Yadav, Amel Gacem, Jari S. Algethami, Mohammed S. Alqahtani, Fahad M. Aldakheel, Abdulkarim S. Binshaya, Nahed S. Alharthi, Imtiaz A. Khan, Saiful Islam, Yongtae Ahn, **Byong-Hun Jeon**, Functionalized Microbial Consortia with Silver-Doped Hydroxyapatite (Ag@HAp) Nanostructures for Removal of RO84 from Industrial Effluent, *crystals*, 12, 970, 2022.
58. Firdous Sayed Mohammed, Arya Ghosh, Sourav Pal, Chayan Das, Suliman Yousef Alomar, Mohsina Patwekar, Faheem Patwekar, **Byong-Hun Jeon**, Fahadul Islam, Hydroalcoholic Extract of *Sechium edule* Fruits Attenuates QT Prolongation in High Fat Diet-Induced Hyperlipidemic Mice*, Evidence-Based Complementary and Alternative Medicine*, 2022, 8682316, 2022.
59. Virendra Kumar Yadav, G. Gnanamoorthy, Shalini Yadav, Samreen Heena Khan, Hesam Kamyab, Misha Choudhary, **Byong-Hun Jeon**, Marina M. S. Cabral-Pinto. A novel approach for the synthesis of vaterite and calcite from incense sticks ash waste and their potential for remediation of dyes from aqueous solution. *Sustainable Chemistry and Pharmacy*, 29, 100756, 2022.
60. A.R. Solaimany Nazar, M.B. Kurade, M. Ali Khan, **Byong-Hun Jeon**, Effect of humic acid on adsorption of methylparaben from aqueous solutions onto commercially available granular activated carbons, *Scientia Iranica*, 29(3), 1364-1376, 2022.
61. Habasi Patrick Manzi, Reda A.I. Abou-Shanab, **Byong-Hun Jeon**, Junling Wang, El-Sayed Salama, Algae: a frontline photosynthetic organism in the microplastic catastrophe, *Trends in Plant Science*, in press, 2022.
62. Ramesh Kumar, Bikram Basak, Sankha Chakrabortty, Parimal Pal, Young-Kwon Park, Moonis Ali Khan, Woojin Chung, Soon Woong Chang, **Byong-Hun Jeon**, Feasibility assessment of bioethanol production from humic acid-assisted alkaline pretreated Kentucky bluegrass (Poa pratensis L.) followed by downstream enrichment using direct contact membrane distillation, *Bioresource Technology*, 360, 127521, 2022.
63. Subramanya Malini, Arpita Roy, Kalyan Raj, KS Anantha Raju, Ismat H Ali, Basavaraju Mahesh, Krishna Kumar Yadav, Saiful Islam, **Byong-Hun Jeon**, Sean Seungwon Lee, Sensing beyond Senses: An Overview of Outstanding Strides in Architecting Nanopolymer-Enabled Sensors for Biomedical Applications, *Polymers*, 14(3), 601, 2022.
64. S. Balaji, P. Maniarasan, S. V. Alagarsamy, Abdullah M. Alswieleh, V. Mohanavel, M. Ravichandran, **Byong-Hun Jeon**, Haiter Lenin Allasi, Optimization and Prediction of Tribological Behaviour of Al-Fe-Si Alloy-Based Nanograin-Refined Composites Using Taguchi with Response Surface Methodology, *Journal of Nanomaterials*, 2022, 9733264, 2022.
65. Ramesh Kumar, Chengjia Liu, Geon-Soo Ha, Young-Kwon Park, Moonis Ali Khan, Min Jang, Sang-Hyoun Kim, Mohammed A. Amin, Amel Gacem, **Byong-Hun Jeon**, Downstream recovery of Li and value-added metals (Ni, Co, and Mn) from leach liquor of spent lithium-ion batteries using a membrane-integrated hybrid system. *Chemical Engineering Journal*, 447, 137507, 2022.
66. Salim Boulkhessaim, Amel Gacem, Samreen Heena Khan, Abdelfattah Amari, Virendra Kumar Yadav, Hamed N. Harharah, Abubakr M. Elkaleefa, Krishna Kumar Yadav, Sami-ullah Rather, Hyun-Jo Ann, **Byong-Hun Jeon**, Emerging Trends in the Remediation of Persistent Organic Pollutants Using Nanomaterials and Related Processes: A Review, *nanomaterials*, 12, 2148, 2022.
67. Hari Prasad Reddy Kannapu, Sumin Pyo, Su Shiung Lam, Jungho Jae, Gwang Hoon Rhee, Moonis Ali

Khan, **Byong-Hun Jeon**, Young-Kwon Park**,** MgO-modified activated biochar for biojet fuels from pyrolysis of sawdust on a simple tandem micro-pyrolyzer. *Bioresource Technology*, 359, 127500, 2022.

68. T.N.Vinuth Raj, Priya A Hoskeri, Shanavaz Hamzad, M.S.Anantha, C.M.Joseph, H.B.Muralidhara, K.Yogesh Kumar, Fahad.A.Alharti, **Byong-Hun Jeon**, M.S.Raghu, *Moringa Oleifera* leaf extract mediated synthesis of reduced graphene oxide-vanadium pentoxide nanocomposite for enhanced specific capacitance in supercapacitors, *Inorganic Chemistry Communications,* 142, 109648, 2022.
69. Hana Ferkous, Karima Rouibah, Nour-El-Houda Hammoudi, Manawwer Alam, Chahrazed Djilani, Amel Delimi, Omar Laraba, Krishna Kumar Yadav, Hyun-Jo Ahn, **Byong-Hun Jeon,** Yacine Benguerba. The removal of a textile dye from an aqueous solution using a biocomposite adsorbent, *polymers*, 14(12), 2396, 2022.
70. Soheil Valizadeh, Sang Soo Lee,Yong Jun Choi, Kitae Baek, **Byong-Hun Jeon**, Kun-Yi Andrew Lin, Young-Kwon Park, Biochar application strategies for polycyclic aromatic hydrocarbons removal from soils. *Environmental Research*, 213, 113599, 2022.
71. Surendar Moogi, Sumin Pyo, Abid Farooq, Soheil Valizadeh, Yong Jun Choi, Gwang Hoon Rhee, Jechan Lee, Jung ho Jae, Murid Hussain, Moonis Ali Khan, **Byong-Hun Jeon**, Kun-Yi Andrew Lin, Wei-Hsin Chen, Young-Kwon Park. Enhancement of Bioaromatics Production from Food Waste through Catalytic Pyrolysis over Zn and Mo-loaded HZSM-5 under an Envrironment of Decomposed Methane. *Chemical Engineering Journal*, 446, 137215, 2022.
72. Gyeong-Uk Kim, Geon-Soo Ha, Mayur B.Kurade, Shouvik Saha, Moonis Ali Khan, Young-Kwon Park, Woojin Chung, Soon Woong Chang, Krishna Kumar Yadav, **Byong-Hun Jeon**, Integrating fermentation of *Chlamydomonas mexicana* by oleaginous *Lipomyces starkeyi* and switchable ionic liquid extraction for enhanced biodiesel production, *Chemical Engineering Journal*, 446, 137285, 2022.
73. Kien Tiek Wong, Choe Earn Choong, In Wook Nah, Sang-Hyoun Kim, **Byong-Hun Jeon**, Yeomin Yoon, Eun Ha Choi, Interfacial Schottky junctions modulated by photo-piezoelectric band bending to govern charge carrier migration for selective H_2O_2 generation, *Applied Catalysis B: Environmental*, 315, 121581, 2022.
74. Shreya Modi, Virendra Kumar Yadav, Amel Gacem, Ismat H. Ali, Dhruv Dave, Samreen Heena Khan, Krishna Kumar Yadav, Sami-ullah Rather, Yongtae Ahn, Cao Truong Son, **Byong-Hun Jeon**, Recent and Emerging Trends in Remediation of Methylene Blue Dye from Wastewater by Using Zinc Oxide Nanoparticles, *water*, 14(11), 1749, 2022.
75. Shreya Modi, Gajendra Kumar Inwati, Amel Gacem, Shahabe Saquib Abullais, Rajendra Prajapati, Virendra Kumar Yadav, Rabbani Syed, Mohammed S. Alqahtani, Krishna Kumar Yadav, Saiful Islam, Yongtae Ahn, **Byong-Hun Jeon**, Nanostructured Antibiotics and Their Emerging Medicinal Applications: An Overview of Nanoantibiotics, *antibiotics*, 11(6), 708, 2022.
76. Amel Delimi, Hana Ferkous, Manawwer Alam, Souad Djellali, Amel Seddik, Kahlouche Abdesalem, Chérifa Boulechfar, Amina Belakhdar, Krishna Kumar Yadav, Marina M.S Cabral Pinto, Yacine Benguerba, **Byong-Hun Jeon**, Corrosion Protection Performance of silicon-based coatings on carbon Steel in NaCl Solution: A theoretical and experimental assessment of the effect of plasma-enhanced chemical vapor deposition pretreatment. RSC advances, 12, 15601-15612, 2022.
77. Maira Shabir, Muhammad Yasin, Murid Hussainm Iqrash Shafiqm Parveen Akhter, Abdul-Sattar Nizami, **Byong-Hun Jeon**, Young-Kwon Park. A review on recent advances in the treatment of dye-polluted wastewater. *Journal of Industrial and Engineering Chemistry*, 112, 1-19, 2022.
78. Mohammad Faisal Umar, Mohd Rafatullah, Moonis Ali Khan, Massom Raza Siddiqui, **Byong-Hun Jeon**. Power generation and toluene bioremediation through single chamber benthic microbial fuel cell fed with sugarcane waste as a substrate. *International Journal of Energy Research*, 46(7), 8687-8699, 2022.
79. Ebenezer Ashun, Woochang Kang, Bhim Sen Thapa, Anup Gurung, Mostafa Rahimnejad, Min Jang, **Byong-Hun Jeon**, Jung-Rae Kim, Sang-Eun Oh. A novel gas production bioassay of thiosulfate utilizing denitrifying bacteria (TUDB) for the toxicity assessment of heavy metals contaminated water. *Chemosphere*, 303, 134902, 2022.
80. Aditya Amrut Pawar, Jyotirmayee Sahoo, Aakash Verma, Abdullah M. Alswieleh, Abhijit

Lodh, Rajesh Raut, Jaya Lakkakula, **Byong-Hun Jeon**, Md. Rabiul Islam, *Azadirachta indica*-Derived Silver Nanoparticle Synthesis and Its Antimicrobial Applications. *Journal of Nanomaterials*, 2022, 4251229, 2022.

81. K. Veena, S. Chandrasekhar, M.S. Raghu, K. Yogesh Kumar, C. B. Pradeep Kumar, Abdullah M Alswieleh, V. S. Anusuya Devi, M.K. Prashanth, **Byong-Hun Jeon**, Facile green synthesis of samarium sesquioxide nanoparticle as a quencher for biologically active imidazole analogues: Computational and experimental insights, *Journal of Molecular Structure*, 1264, 133235, 2022.
82. Abdelhalim Fetimi, Attef Dˆaas, Slimane Merouani, Abdullah M. Alswieleh, Mourad Hamachi, Oualid Hamdaoui, Ounissa Kebiche-Senhadji, Krishna Kumar Yadav, **Byong-Hun Jeon**, Yacine Benguerba, Predicting emulsion breakdown in the emulsion liquid membrane process: optimization through response surface methodology and a particle swarm artificial neural network. *Chemical Engineering and Processing - Process Intensification,* 176, 108956, 2022.
83. Yu-Kyung Jung, Alam Venugopal Narendra Kumar, **Byong-Hun Jeon**, Eun Young Kim, Taewoo Yum, Ki-Jung Paeng, Exploration of Zero-Valent Iron Stabilized Calcium–Silicate–Alginate Beads' Catalytic Activity and Stability for Perchlorate Degradation. *materials*, 15(9), 3340, 2022.
84. Alam Venugopal Narendra Kumar, Alam Venugopal Narendra Kumar, Subbaiah Muthu Prabhu, Won Sik Shin, Krishna Kumar Yadav, Yongtae Ahn, Magda H. Abdellattif, **Byong-Hun Jeon**, Prospects of non-noble metal single atoms embedded in two-dimensional (2D) carbon and non-carbon-based structures in electrocatalytic applications. *Coordination Chemistry Reviews*, 467, 214613, 2022.
85. Oualid ALIOUI, Widad SOBHI, Matteo TIECCO, Inas M. ALNASHEF, Ayoub ATTOUI, Amel BOUDECHICHA, Krishna Kumar YADAV, Ahmed M. FALLATAH, Noureddine ELBOUGHDIRI, **Byong-Hun Jeon**, Yacine BENGUERB, Theoretical and experimental evidence for the use of natural deep eutectic solvents to increase the solubility and extractability of curcumin. *Journal of Molecular Liquids*, 359, 119149, 2022.
86. K. Yogesh Kumar, C. B. Pradeep Kumar, K. N. N. Prasad, **Byong-Hun Jeon**, Alsalme Ali, Prashanth Maralekere. Microwave-assisted *N* -alkylation of amines with alcohols catalyzed by $MnCl_2$: Anticancer, docking, and DFT studies. *Archiv der Pharmazie*, 355(5), 2100443, 2022.
87. Ping Wu, Niraj R. Rane, Chao Xing, Swapnil M. Patil, Hyun-Seog Roh, **Byong-Hun Jeon**, Xiaofang Li. Integrative chemical and omics analyses reveal copper biosorption and tolerance mechanisms of *Bacillus cereus* strain T6. *Journal of Hazardous Materials*, 435, 129002, 2022.
88. Virendra Kumar Yadav, Parth Malik, Vineet Tirth, Samreen Heena Khan, Krishna Kumar Yadav, Saiful Islam, Nisha Choudhary, Gajendra Kumar Inwati, Amir Arabi, Do-Hyeon Kim, **Byong-Hun Jeon**, Health and Environmental Risks of Incense Smoke: Mechanistic Insights and Cumulative Evidence. *Journal of Inflammation Research*, 15, 2665-2693, 2022.
89. Jae-Wang Shim, Sumin Pyo, Su Shiung Lam, Jungho Jae, **Byong-Hun Jeon**, Moonis Ali Khan, Kun-Yi Andrew Lin, Young-Min Kim, Sang-Chul Jung, Young-Kwon Park, Catalytic pyrolysis of chicken manure over various catalysts. *Fuel*, 322, 124241, 2022.
90. Yongtae Ahn, Sanghyun Park, Min-Kyu Ji, Geon-Soo Ha, **Byong-Hun Jeon**, Jaeyoung Choi, Biodiesel production potential of microalgae, cultivated in acid mine drainage and livestock wastewater. *Journal of Environmental Management*, 314, 115031, 2022.
91. Swati lal, Udaya Kumar V, Walid Nabgan, Praveen Martis, S. Sreenivasa, S.C. Sharma, M.S. Raghu, Ali Alsalme, S. Akshatha, **Byong-Hun Jeon**, L. Parashuram, NrGO wrapped Cu-ZrO2 as a multifunctional visible-light-sensitive catalyst for advanced oxidation of pollutants and CO2 reduction. *Journal of Environmental Chemical Engineering*, 10, 107679, 2022.
92. Abdelhalim Fetimi, Slimane Merouani, Mohd Shahnawaz Khan, Muhammad Nadeem Asghar, Krishna Kumar Yadav, **Byong-Hun Jeon**, Mourad Hamachi, Ounissa Kebiche-Senhadji, and Yacine Benguerba**,** Modeling of Textile Dye Removal from Wastewater Using Innovative Oxidation Technologies (Fe(II)/Chlorine and H2O2/Periodate Processes): Artificial Neural Network-Particle Swarm Optimization Hybrid Model. *ACS Omega*, 7(16), 13818-13825, 2022.
93. Abid Farooq, Su Shiung Lam, Gwang Hoon Rhee, Jechan Lee, Moonis Ali Khan, **Byong-Hun Jeon**, Young-Kwon Park. Technical benefits of using methane as a pyrolysis medium for catalytic pyrolysis of Kraft Lignin. *Bioresource Technology*, 353, 127131, 2022.

94. Marwa M.El-Dalatony, Bikram Basak, Mayur B.Kurade, Hyun-Seog Roh, Min Jang, **Byong-Hun Jeon**, Effect of sonication pretreatment on hydrogen and acetone-butanol-ethanol coproduction from *Chlamydomonas mexicana* biomass using *Clostridium acetobutylicum, Journal of Envrionmental Chemical Engineering*, 10(3), 107600, 2022.
95. Gajendra Kumar Inwati, Virendra yadav, Ismat Hassan Ali, Sai Bhargava Vuggili, Shakti Devi Kakodiaya, Mitesh B. Solanki, Krishna Kumar Yadav, Yongtae Ahn, Shalini Yadav, Saiful Islam, **Byong-Hun Jeon**, 2D personality of Multifunctional Carbon Nitrides towards Enhanced Catalytic Performance in Energy Storage and Remediation. *Applied sciences*, 12(8), 3753, 2022.
96. Shreya Modi, Virendra Kumar Yadav, Nisha Choudhary, Abdullah M. Alswieleh, Anish Kumar Sharma, Abhishek Bhardwaj, Samreen Heena Khan, Krishna Kumar Yadav, Ji-Kwang Cheon, **Byong-Hun Jeon**, Onion Peel Waste Mediated-Green Synthesis of Zinc Oxide Nanoparticles and Their Phytotoxicity on Mung Bean and Wheat Plant Growth. *Materials*, 15(7), 2393, 2022.
97. Bikram Basak, Swapnil Patil, Ramesh Kumar, Geon-Soo Ha, Young-Kwon Park, Moonis Ali Khan, Krishna Kumar Yadav, Ahmed M. Fallatah, **Byong-Hun Jeon**, Integrated hydrothermal and deep eutectic solvent-mediated fractionation of lignocellulosic biocomponents for enhanced accessibility and efficient conversion in anaerobic digestion. *Bioresource technology*, 351, 127034, 2022.
98. Kaouther Baira, Ali Ounissi, Hafida Merouani, Manawwer Alam, Nadia Ouddai, Alessandro Erto, Krishna Kumar Yadav, Saiful Islam, Ji-Kwang Cheon, **Byong-Hun Jeon**, Yacine Benguerba. Multitask Quantum Study of the Curcumin-Based Complex Physicochemical and Biological Properties, *Molecular Sciences*, 23(5), 2832, 2022.
99. Mohd Rafatullah, Husn Ara Chauhan, B., Khozema Ahmed Ali, Mohammad Faisal Umar, Moonis Ali Khan, **Byong-Hun Jeon**. Photocatalytic activity of graphene oxide/zinc oxide nanocomposite derived from rice husk for the degradation of phenanthrene under ultraviolet-visible light. *Journal of Water Process Engineering*, 47, 102714, 2022.
100. Fetimi Abdelhalim, Merouani Slimane, Hkan Mohd, Asghar Muhammad, Yadav Krishna, **Byong-Hun Jeon**, Hamachi Mourad, Kebiche Senhadji Ounissa, Benguerba Yacine. Modeling of Textile Dye Removal from Wastewater Using Innovative Oxidation Technologies (Fe(II)/Chlorine and H2O2/Periodate Processes): Artificial Neural Network-Particle Swarm Optimization Hybrid Model. *ACS Omega*, 7, 16, 13818-13825, 2022.
101. Jiu-Qiang Xiong, Pengfei Cui, Shaoguo Ru, Mayur B. Kurade, Swapnil M. Patil, Krishna K. Yadav, Ahmed M. Fallatah, Marina M.S. Cabral-Pinto, **Byong-Hun Jeon**. A comprehensive review on the effects of engineered nanoparticles on microalgal treatment of pollutants from wastewater, *Journal of Cleaner Production*, 344, 131121, 2022.
102. Deepak Kukkar, Daohong Zhang, **Byong-Hun Jeon**, Ki-Huun Kim. Recent advances in wearable biosensors for non-invasive monitoring of specific metabolites and electrolytes associated with chronic kidney disease: Performance evaluation and future challe. *Trends in Analytical Chemistry*, 150, 116570, 2022.
103. Neha Gupta, Krishna Kumar Yadav, Vinit Kumar, Shiv Prasad, Marina Cabral-Pinto, **Byong-Hun Jeon**, Sandeep Kumar, Magda H Abdellattif, Abdulmohsen Khalaf Dhahi Alsukaibia. Investigation of heavy metal accumulation in vegetables and health risk to humans from their consumption in Jhansi, India. *Frontiers in Environmental Science*, 10, 791052, 2022.
104. Prashanth M. K., Veena K., Raghu M. S., Yogesh Kumar K., Kholood A. Dahlous, Aboud Ahmed Awadh Bahajjaj, Mani G., **Byong-Hun Jeon**. Development of penipanoid C-inspired 2-benzoyl-1-methyl-2,3-dihydroquinazolin-4(1H)-one derivatives as potential EGFR inhibitors: Synthesis, anticancer evaluation and molecular docking study. *Journal of Molecular Structure*, 1258, 132674, 2022.
105. Surendar Moogi, Chang Hyun Ko, Gwang Hoon Rhee, **Byong-Hun Jeon**, Moonis Ali Khan, Young-Kwon Park. Influence of Catalyst Synthesis Methods on Anti-Coking Strength of Perovskites derived Catalysts in Biogas Dry Reforming for Syngas Production. *Chemical Engineering Journal*, 437, 135348, 2022.
106. K. Yogesh Kumar, M.K. Prashanth, L. Parashuram, Baskaran Palanivel, Fahad A. Alharti, **Byong-Hun Jeon**, M.S. Raghu. Gadolinium sesquisulfide anchored N-doped reduced graphene oxide for

sensitive detection and degradation of carbendazim. *Chemosphere*, 296, 134030, 2022.

107. El-Sayed Salama, Muhammad Usman, Shuai Zhao, **Byong-Hun Jeon**, Xiangkai Li. Microbial metabolomics: Microbial β-oxidation of synthetic long-chain fatty acids to improve lipid biomethanation. *Water Research*, 213, 118164, 2022.
108. Nakul Kumar, Gajendra Kumar Inwati, Emad M. Ahmed, Chhagan Lal, Bharat Makwana, Virendra K. Yadav, Saiful Islam, Hyun-Jo Ahn, Krishna K. Yadav, **Byong-Hun Jeon**. Modified 7-Chloro-11H-Indeno[1,2-b] Quinoxaline Heterocyclic System for Biological Activities. *Cayalysts*, 12, 213, 2022.
109. Ali S. Alkorbi, K. Yogesh Kumar, M. K. Prashanth, Parashuram L., Antonio Abate, Fahad A. Alharthi, M. S. Raghu, **Byong-Hun Jeon**. Samarium Vanadate Affixed Sulfur Self Doped g-C3N4 Heterojunction; Photocatalytic, Photoelectrocatalytic Hydrogen evolution and Dye Degradation. *International Journal of Hydrogen Energy*, 47(26), 12988-13003, 2022.
110. Tirath Raj, Kuppam Chandrasekhar, Amradi Kumar Naresh, Pooja Sharma, Ashok Pandey, Min Jang, **Byong-Hun Jeon**, Sunita Varjani, Sang-Hyoun Kim. Recycling of cathode material from spent lithium-ion batteries: challenges and future perspectives. *Journal of Hazardous Materials*, 429, 128312, 2022.
111. Pandi Kalimuthu, Youjin Kim, Muthu Prabhu Subbaiah, Daewhan Kim, **Byong-Hun Jeon**, Jinho Jung. Comparative evaluation of Fe-, Zr-, and La-based metal-organic frameworks derived from recycled PET plastic bottles for arsenate removal. *Chemosphere*, 294, 133672, 2022.
112. Virendra Kumar Yadav, Nitin Gupta, Pankaj Kumar, Marjan Ganjali Dashti, Vineet Tirth, Krishna Kumar Yadav, Saiful Islam, Samreen Heena Khan, Ali Algahtani, Sweta Parimita Bera, Nisha Choudhary, Do-Hyeon Kim, **Byong-Hun Jeon**. Recent advances in synthesis and degradation of lignin and lignin nanoparticles and their emerging applications in nanotechnology. *Materials*, 15(3), 953, 2022.
113. Soheil Valizadeh, Daejun Oh, Jungho Jae, Sumin Pyo, Hoyeon Jang, Hyeonji Yim, Gwang Hoon Rhee, Moonis Ali Khan, **Byong-Hun Jeon**, Kun-Yi Andrew Lin, Pau Loke Show, Jung Min Sohn, Young-Kwon Park. Effect of torrefaction and fractional condensation on the quality of bio-oil from biomass pyrolysis for fuel applications. *Fuel*, 312, 112959, 2022.
114. Abdesalem Kahlouche, Hana Ferkous, Amel Delimi, Souad Djellali, Krishna Kumar Yadav, Ahmed M. Fallatah, **Byong-Hun Jeon**, Krid Ferial, Chérifa Boulechfar, Yasser Ben Amor, Yacine Benguerba. Molecular insights through the experimental and theoretical study of the anticorrosion power of a new eco-friendly Cytisus Multiflorus Flowers Extract in a 1 M sulfuric acid. *Journal of Molecular Liquids*, 347, 118397, 2022.
115. Rajendran Karkuzhali, Shanmugasundaram Manoj, Karnan Shanmugapriya, Gopalakrishnan Gopu, **Byong-Hun Jeon**, Subbaiah Muthu Prabhu. MXene-based O/Se-rich bimetallic nanocomposites for high performance solid-state symmetric supercapacitors. *Journal of Solid State Chemistry*, 306, 122727, 2022.
116. Swapnil M. Patil, Niraj R. Rane, Paul O. Bankole, Prakash Krishnaiah, Yongtae, Ahn, Yong-Kwon Park, Krishna Kumar Yadav, Mahammed A. Amin, **Byong-Hun Jeon**. An assessment of micro- and nanoplastics in the biosphere: A review of detection, monitoring, and remediation technology. *Chemical Engineering Journal*, 430(part 2), 132913, 2022.
117. A Naresh Kumar, Omprakash Sarkar, K Chandrasekhar, Tirath Raj, Vivek Narisetty, S Venkata Mohan, Ashok Pandey, Sunita Varjani, Sunil Kumar, Pooja Sharma, **Byong-Hun Jeon**, Min Jang, Sang-Hyoun Kim. Upgrading the value of anaerobic fermentation via renewable chemicals production: A sustainable integration for circular bioeconomy. *Science of The Total Environment*, 806(part 1), 150312, 2022.
118. Tae Hyun Kim, Kyung-Keun Oh, Sumitha Banu. J Jamal dheen. M, Chang Geun Yoo, Basak Bikram, Mayur Kurade, **Byong-Hun Jeon**. A review on physico-chemical delignification as a pretreatment of lignocellulosic biomass for enhanced bioconversion. *Bioresource technology*, 346, 126591, 2022.
119. Hyeseong Kim, Choe Earn Choong, Chang Min Park, In Wook Nah, Jung Rae Kim, **Byong-Hun Jeon**, Yeomin Yoon, Min Jang. Insight into the role of charge carrier mediation zone for singlet oxygen production over rod-shape graphitic carbon nitride: Batch and continuous-flow reactor. *Journal of Hazardous Materials*, 424, 127652, 2022.

120. Bikram Basak, Yongtae Ahn, Ramesh Kumar, Jaehoon Hwang, Ki-Hyun Kim, **Byong-Hun Jeon**. Lignocellulolytic microbiomes for augmenting lignocellulose degradation in anaerobic digestion. *Trends in Microbiology*, 30(1), 6-9, 2022.
121. Nitin Gupta, Virendra Kumar Yadav, Krishna Kumar Yadav, Mamdooh Alwetaishi, G. Gnanamoorthy, Bijendra Singh, **Byong-Hun Jeon**, Marina M. S. Cabral-Pinto, Nisha Choudhary, Daoud Ali, Zahra Derakhshan Nejad. Recovery of iron nanominerals from sacred incense sticks ash waste collected from temples by wet and dry magnetic separation method. *Environmental Technology & Innovation*, 25, 102150, 2022.
122. Prakash Krishnaiah, Raji Atchudan, Suguna Perumal, El-Sayed Salama, Yong Rok Lee, **Byong-Hun Jeon**, Utilization of waste biomass of Poa pratensis for green synthesis of n-doped carbon dots and its application in detection of Mn2+ and Fe3+, *Chemosphere*, 286, 131764, 2022.
123. Niraj R. Rane, Savita Tapase, Aakansha Kanojia, Anuprita Watharkar, El-Sayed Salama, Min Jang, Krishna Kumar Yadav, Mohammed A. Amin, Marina M.S. Cabral-Pinto, Jyoti P. Jadhav, **Byong-Hun Jeon**. Molecular insights into plant-microbe interactions for sustainable remediation of contaminated environment. *Bioresource technology*, 344(Part B), 126246, 2022.
124. Choe Earn Choong, Chang Min Park, Yoon-Young Chang, Jae-kyu Yang, Jung Rae Kim, Sang-Eun Oh, **Byong-Hun Jeon**, Eun Ha Choi, Yeomin Yoon, Min Jang. Interfacial coupling perovskite CeFeO3 on layered graphitic carbon nitride as a multifunctional Z-scheme photocatalyst for boosting nitrogen fixation and organic pollutants demineralization. *Chemical Engineering Journal*, 427, 131406, 2022.
125. Ramesh Kumar, Tae Hyun Kim, Bikram Basak, Swapnil M. Patil, Hoo Hugo Kim, Yongtae Ahn, Krishna Kumar Yadav, Marina M. S. Cabral-Pinto, **Byong-Hun Jeon**. Emerging approaches in lignocellulosic biomass pretreatment and anaerobic bioprocesses for sustainable biofuels production. *Journal of Cleaner production*, 333, 130180, 2022.
126. ualid Alioui, Michael Badawi, Alessandro Erto, Mohammed A. Amin, Vineet Tirt, **Byong-Hun Jeon**, Saiful Islam, Marco Balsamo, Mirella Virginie, Barbara Ernst, Tacine Benguerba. Contribution of DFT to the optimization of Ni-based catalysts for dry reforming of methane: a review. *Catalysis Reviews*, Ahead-of-print, 1-53, 2022.
127. Shareefa Ahmed Alshareef, Ayoub Abdullah Alqadami, Moonis Ali Khan, Hamdah S. Alanazi, Masoom Raza Siddiqui, **Byong-Hun Jeon**. Simultaneous Co-Hydrothermal Carbonization and Chemical Activation of Food Wastes to Develop Hydrochar for Aquatic Environmental Remediation. *Bioresource Technology*, 347, 126363, 2022.
128. Soheil Valizadeh, Seong-HO Jang, Gwang Hoon Rhee, Jechan Lee, Pau Loke Show, Moonis Ali Khan, **Byong-Hun Jeon**, Kun-Yi Andrew Lin, Chang Hyun Ko, Wei-Hsin Chen, Yong-Kwon Park. Biohydrogen Production from Furniture Waste via Catalytic Gasification in Air over Ni-loaded Ultra-Stable Y-type Zeolite, *Chemical Engineering Journal*, 433, 133793, 2022.
129. Roent Dune A. Cayetano, Gi-Beom Kim, Jungsu Park, Yung-Hun Yang, **Byong-Hun Jeon**, Min Jang, Sang-Hyoun Kim. Biofilm formation as a method of improved treatment during anaerobic digestion of organic matter for biogas recovery. *Bioresource Technology*, 344, 126309, 2022.
130. L Parashuram, MK Prashanth, Prakash Krishnaiah, CB Pradeep Kumar, Fahad A Alharti, K Yogesh Kumar, **Byong-Hun Jeon**, MS Raghu. Nitrogen doped carbon spheres from *Tamarindus indica* shell decorated with vanadium pentoxide; photoelectrochemical water splitting, photochemical hydrogen evolution & degradation of Bisphenol A. *Chemosphere*, 287, 132348, 2022.
131. K. Chandrasekhar, Tirath Raj, S. V. Ramanaiah, Gopalakrishnan Kumar, **Byong-Hun Jeon**, Min Jang, Sang-Hyoun Kim. Regulation and augmentation of anaerobic digestion processes via the use of bioelectrochemical systems. *Bioresource technology*, 346, 126628, 2021.
132. Atef Chibani, Slimane Merouani, Fouzi Benmoussa, Magda H. Abdellattif, Alessandro Erto, **Byong-Hun Jeon**, Yacine Benguerba. A strategy for enhancing heat transfer in phase change material-based latent thermal energy storage unit via nano-oxides addition: A study applied to a shell-and-tube heat exchanger. *Journal of Environmental Chemical Engineering*, 9(6), 106744, 2021.
133. Pradip Kumar Maurya, Sk Ajim Ali, Raied Saad Alharbi, Krishna Kumar Yadav, Faisal M. Alfaisal, Ateeque Ahmad, Pakorn Ditthakit, Shiv Prasad, You-Kyung Jung, **Byong-Hun Jeon**. Impacts of Land Use Change on Water Quality Index in the Upper Ganges River Near Haridwar, Uttarakhand: A GIS-

Based Analysis. *Water*, 13(24), 3572, 2021.

134. Haresh S. Kalasariya, Nikunj B. Patel, Akanksha Yadav, Kahkashan Perveen, Virendra Kumar Yadav, Faris M. Munshi, Krishna Kumar Yadav, Shamshad Alam, You-Kyung Jung, **Byong-Hun Jeon**. Characterization of Fatty Acids, Polysaccharides, Amino Acids, and Minerals in Marine Macroalga Chaetomorpha crassa and Evaluation of Their Potentials in Skin Cosmetics. *Molecules*, 26(24), 7515, 2021.
135. Cherifa Boulechfar, Hana Ferkous, Souad Djellali, Mohammed A. Amin, Sihem Boufas, Amel Djedouani, Amel Delimi, Yasser ben amor, Krishna Kumar Yadav, **Boung-Hun Jeon**, Yacine Benguerba. DFT/molecular scale, MD simulation and assessment of the eco-friendly anti-corrosion performance of a novel Schiff base on XC38 Carbon steel in acidic medium. *Journal of Molecular Liquids*, 344, 117874, 2021.
136. Yacine Benguerbra, Meriem Zerroug, Hana Ferkous, Souad Djellali, Abderrazak Bouzid, Mohamed A Amin, Rezki Leila, Amina Belakhdar, **Byong-Hun Jeon**, Cherifa boulechfar. Experimental and theoretical evaluation of the adsorption process of some polyphenols and their corrosion inhibitory properties on mild steel in acidic media. *Journal of Environmental Chemical Engineering*, 9(6), 106482, 2021.
137. Aissa Dehane, Slimane Merouani, Oualid Hamdaoui, Magda H. Abdellattif, **Byong-Hun Jeon**. A full Mechanistic and Kinetics Analysis of Carbon Tetrachloride (CCl4) Sono-Conversion: Liquid Temperature Effect. *Journal of Environmental Chemical Engineering*, 9(6), 106555, 2021.
138. Li Xiangkai, Xiaoyun Leng, Muhammad Usman, Hongyuhang Ni, Tuoyu Zhou, **Byong-Hun Jeon**, Pu Liu, Pengyun Zhang, El-Sayed Salama. Development of an innovative MFC-biosensor for real time monitoring of anaerobic digestion: Controlled substrate feeding strategy. *Journal of Environmental Chemical Engineering*, 9(6), 106703, 2021.
139. Young-Kwon Park, Abid Farooq, See Hoon Lee, Sang-Chul Jung, Gwang Hoon Rhee, **Byong-Hun Jeon**. Waste furniture gasification using rice husk based char catalysts for enhanced hydrogen generation. *Bioresource technology*, 341, 125813, 2021.
140. Shreya Modi, Rajendra PrajapatI, Gajendra Kumar Inwati, Nikky Heena Deepa, Vineet Kumar Tirth, Virendra Kumar Yadav, Krishna Kumar Yadav, Saiful Islam, Parul Gupta, Do-Hyeon Kim, **Byong-Hun Jeon**. Recent Trends in fascinating applications of nanotechnology in allied health sciences. *Crystals*, 12(1), 39, 2021.
141. Ho-Ryong Park, Beom-Jun Kim, Yeol-Lim Lee, Seon-Yong Ahn, Kyoung-Jin Kim, Ga-Ram Hong, Seong-Jin Yun, **Byong-Hun Jeon**, Jong Wook Bae, Hyun-Seog Roh. CO2 reforming of CH4 using coke oven gas over Ni/MgO-Al2O3 catalysts: Effect of the MgO-Al_2O_3 ratio. *Catalysts*, 11(12), 1468, 2021.
142. Yeol-Lim Lee, Kyoung-Jin Kim, Ga-Ram Hong, Seon-Yong Ahn, Beom-Jun Kim, Ho-Ryong Park, Seong-Jin Yun, Jong Wook Bae, **Byong-Hun Jeon**, Hyun-Seog Roh. Sulfur-Tolerant Pt/CeO_2 Catalyst with Enhanced Oxygen Storage Capacity by Controlling the Pt Content for the Waste-to-Hydrogen Processes. *ACS Sustainable Chemistry & Engineering*, 9, 45, 15287-15293, 2021.
143. Yadav Krishna, Krishnan Santhana, Gupta Neha, Prasad Shiv, Amin Mohammed, Cabral-Pinto Marina, Sharma Gulshan, Marzouki Riadh, **Byong-Hun Jeon**, Kumar Sandeep, Singh Neeraja, Kumar Amit, Rezania Shahabaldin. Review on Evaluation of Renewable Bioenergy Potential for Sustainable Development: Bright Future in Energy Practice in India. *ACS Sustainable Chemistry & Engineering*, 9, 48, 16007-16030, 2021.
144. Nisha Choudhary, Virendra Kumar Yadav, Krishna Kumar Yadav, Abdelaziz Ibrahim Almohana, Sattam Fahad Almojil, G. Gnanamoorthy, Do-Hyeon Kim, Saiful Islam, Pankaj Kumar, **Byong-Hun Jeon**. Application of Green Synthesized MMT/Ag Nanocomposite for Removal of Methylene Blue from Aqueous Solution. *Water*, 13(22), 3206, 2021.
145. Xiaoyun Leng, Muhammad Usman, El-Sayed Salama, Hongyuhang Ni, Tuoyu Zhou, **Byong-Hun Jeon**, Pu Liu, Pengyun Zhang, Xiangkai Li. Development of an innovative MFC-biosensor for real-time monitoring of anaerobic digestion for biogas production: Controlled substrate feeding strategy. *Journal of Environmental Chemical Engineering*, 9(6), 106703, 2021.
146. Geon-Soo Ha, Shouvik Saha, Mayur B. Kurade, Hyun-Jo Ahn, Bikram Basak, Gyeong-Uk Kim,

Byong-Hun Jeon. High-throughput integrated pretreatment strategies to convert high-solid loading microalgae into high-concentration biofuels. *Bioresource technology*, 340, 125651, 2021.

147. Ali Reza Solaimany Nazar, **Byong-Hun Jeon**, Mayur Bharat Kurade. Influence of humic acid on adsorption of methylparaben from aqueous solutions onto commercially available granular activated carbons. *Scientia Iranica*, 29, 3, 2021.
148. Iqrash Shafiq, Murid Hussain, Sumeer Shafique, Parveen Akhter, Ashfaq Ahmed, Moonis Ali Khan, **Byong-Hun Jeon**, Young-Kwon Park. Systematic assessment of visible-light-driven microspherical V2O5 photocatalyst for the removal of hazardous organosulfur compounds from diesel. *Nanomaterials*, 11(11), 2908, 2021.
149. Virendra Kumar Yadav, Krishna Kumar Yadav, Vineet Tirth, Govindhan Gnanamoorthy, Nitin Gupta, Ali Algahtani, Saiful Islam, Nisha Choudhary, Shreya Modi, **Byong-Hun Jeon**. Extraction of Value-Added Minerals from Various Agricultural, Industrial and Domestic Wastes. *Materials*, 14, 21, 6333, 2021.
150. R. Suriyaprabha, Gajendra Kumar Inwati, Virendra Kumar Yadav, Nisha Choudhary, Mitesh B Solanki, Magda H. Abdellattif, Krishna Kumar Yadav, Neha Gupta, Saiful Islam, **Byong-Hun Jeon**. Enriched Catalytic Activity of TiO2 Nanoparticles Supported by Activated Carbon for Noxious Pollutant Elimination. *Nanomaterials*, 11(11), 2808, 2021.
151. Virendra Kumar Yadav, Nisha Choudhary, Vineet Tirth, Haresh Kalasariya, Govindhan Gnanamoorthy, Ali Algahtani, Krishna Kumar Yadav, Sunil Soni, Saiful Islam, Shalini Yadav, **Byong-Hun Jeon**. A Short Review on the Utilization of Incense Sticks Ash as an Emerging and Overlooked Material for the Synthesis of Zeolites. *Crystals*, 11(10), 1255, 2021.
152. Rachid El Kaim Billah, Moonis Ali Khan, Young-Kwon Park, Amira AM, Hicham Majdoubi, Younesse Haddaji, **Byong-Hun Jeon**. A comparative study on hexavalent chromium adsorption onto chitosan and chitosan-based composites. *Polymers*, 13(19), 3427, 2021.
153. Yogesh Kumar k, Parashuram L, Parashanth M K, Pradeep Kumar C B, Fahad A Alharthi, Prakash Krishmaiah, **Byong Hun Jeon**, Madihalli S Raghu. N-doped reduced graphene oxide anchored with δTa2O5 for energy and environmental remediation: efficient light-driven hydrogen evolution and simultaneous degradation of textile dyes. *Advanced Powder Technology*, 32, 7, 2022-2212, 2021.
154. Haresh S. Jalasariya, Virendra Kumar Yadav, Krishna Kumar Yadav, Vineet Tirth, Ali Algahtani, Saiful Islam, Neha Gupta, **Byong-Hun Jeon**. Seaweed-Based Molecules and Their Potential Biological Activities: An Eco-Sustainable Cosmetics, *Molecules,* 26(17), 5313, 2021.
155. Young-Kwon Park, Abid Farooq, Seong-Ho Jang, See Hoon Lee, Sang-Chul Jung, Gwang Hoon Rhee, **Byong-Hun Jeon**. Catalytic steam gasification of food waste using Ni-loaded rice husk derived biochar for hydrogen production. *Chemosphere*, 280, 130671, 2021.
156. Virendra Kumar Yadav, Krishna Kumar Yadav, Vineet Tirth, Ashok Jangid, G. Gnanamoorthy, Nisha Choudhary, Saiful Islam, Neha Gupta, Cao Truong Son, **Byong-Hun Jeon**. Recent Advances in Methods for Recovery of Cenospheres from Fly Ash and Their Emerging Applications in Ceramics, Composites, Polymers and Environmental Cleanup. *Crystals*, 11(9), 1067, 2021.
157. Jae-Cheol Lee, Boreum Lee, Hyun-Woo Kim, **Byong-Hun Jeon**, Hankwon Lim. Techno-economic analysis of livestock urine and manure as a microalgal growth medium. *Waste Management*, 135, 276-286, 2021.
158. Chan-Ung Kang, Seung-Eun Ji, Thomas Pabst, Kung-Won Choi, Moonis Ali Khan, Rahul Kumar, Prakash Krishnaiah, Yosep Han, **Byong-Hun Jeon**, Do-Hyeon Kim. Copper Extraction from Oxide Ore of Almalyk Mine by H_2SO_4 in Simulated Heap Leaching: Effect of Particle Size and Acid Concentration. *Minerals*, 11(9), 1020, 2021.
159. Areeba Khayal, Vinars Dawane, Mohammed A. Amin, Vineet Tirth, Virendra Kumar Yadav, Ali Algahtani, Samreen Heena Khan, Saiful Islam, Krishna Kumar Yadav, **Byong-Hun Jeon**. Advances in the Methods for the Synthesis of Carbon Dots and Their Emerging Applications. *Polymers*, 13(18), 3190 2021.
160. Jin Sun Cha, Seong-Ho Jang, Su Shiung Lam, Hyungjoo Kim, Yong-Min Kim, **Byong-Hun Jeon**, Young-Kwon Park. Performance of CO2 and Fe-modified lignin char on arsenic (V) removal from water. *Chemosphere*, 279, 130521, 2021.
161. Soheil Valizadeh, Sang Soo Lee, Kitae Baek, Yong Jun Choi, **Byong-Hun Jeon**, Gwang Hoon Rhee,

Kun-Yi Andrew Lin, Young-Kwon Park. Bioremediation strategies with biochar for polychlorinated biphenyls (PCBs)-contaminated soils: A review. *Environmental Research*, 200, 111757, 2021.

162. Shouvik Saha, Mayur B. Kurade, Geon-Soo Ha, Sean S. Lee, Hyun-Seog Roh, Young-Kwon Park, **Byong-Hun Jeon**. Syntrophic metabolism facilitates Methanosarcina-led methanation in the anaerobic digestion of lipidic slaughterhouse waste. *Bioresource Technology*, 335, 125250, 2021.
163. Nikita Yadav, Sanjay P. Govindwar, Niraj Rane, Hyun-Jo Ahn, Jiu-Qiang Xiong, Min Jang, Sang Hyoun Kim, **Byong-Hun Jeon**. Insights on the role of periphytic biofilm in synergism with *Iris pseudacorus* for removing mixture of pharmaceutical contaminants form wastewater. *Journal of Hazardous Materials*, 418, 126349, 2021.
164. Rachid El Kaim Billah, Moonis Ali Khan, Saikh M Wabaidur, **Byong-Hun Jeon**, Amira AM, Hicham Majdoubi, Younesse Haddaji, Mahfoud Agunaou, Abdessadik Soufiane. Chitosan/phosphate rock-derived natural polymeric composite to sequester divalent copper ions from water. *Nanomaterials*, 11(8), 2028, 2021.
165. Jaeyoung Choi, Yongtae Ahn, Dong-Wan Cho, Waleed Ahmad, Jungman Jo, Mayur B Kurade, Jongsoo Jurng, **Byong-Hun Jeon**. Efficient removal of formaldehyde using metal-biochar derived from acid mine drainage sludge and spent coffee waste. *Journal of Environmental Management*, 298, 113468, 2021.
166. Sumin Pyo, Youna Park, Seul-Bee Lee, Young-Min Kim, Im Hack Lee, Kyung-Seun Yoo, Moonis Ali Khan, **Byong-Hun Jeon**, Gwang Hoon Rhee, Young-Kwon Park. Catalytic pyrolysis of polypropylene over Ga Loaded HZSM-5. *Journal of Industrial and Engineering Chemistry*, 103, 136-141, 2021.
167. Min Jang, Baekha Ryu, Kientiek Wong, In-Wook Na, Jung-Rae Kim, Sang-Hyoun Kim, **Byong-Hun Jeon**, Yeomin Yoon, Shane A. Snyder. Degradation synergism between sonolysis and photocatalysis for organic pollutants with different hydrophobicity: A perspective of mechanism and application for high mineralization efficiency. *Journal of Hazardous Materials*, 416, 125787, 2021.
168. K. S. Prashanth, M. S. Raghu, Fahad M Alharthi, S. Sreenivasa, V. S. Anusuya devi, Prakash Krishnaiah, Devika Bhai Rajamma, S. Akshatha, **Byong-Hun Jeon**, L. Parashuram. Solar light sensitive hybrid Ce4+/3+ doped perovskite magnesium zirconate nano cubes for photocatalytic hydrogen evolution and organic pollutant degradation in water. *Journal of Environmental Chemical Engineering*, 9, 4, 105364, 2021.
169. Karkuzhali Rajendran, Manoj Shanmugasundaram, Diana Marcelin Arulanandhu, Gopalakrishnan Gopu, G. Paruthimal Kalaihnan, **Byong-Hun Jeon**, Muthu Prabhu Subbaiah. Oxalic acid-induced assembly of Co_xNi_{1-x}-bimetallic polyaniline nanocomposite: a bifunctional material for supercapacitor and chromium removal applications. *Journal of Nanostructure in Chemistry*, 2021.
170. Muthu Prabhu Subbaiah, Pandi Kalimuthu, Jinho Jung, **Byong-Hun Jeon**. Recent advances in effective capture of inorganic mercury from aqueous solutions through sulfurized 2D-material-based adsorbents. *Journal of Materials Chemistry A*, 9, 18086-18101, 2021.
171. Chen-Yu Zhao, Shaoguo Ru, Penfei Cui, Xin Qi, Mayur B. Kurade, Swapnil M. Ptail, **Byong-Hun Jeon**, Jiu-Qiang Xiong. Multiple metabolic pathways of enrofloxacin by Lolium perenne L.: Ecotoxicity, biodegradation, and key driven genes. *Water Research*, 202, 117413, 2021.
172. Dongho Kang, Shouvik Saha, Mayur B. Kurade, Bikram Basak, Geon-Soo Ha, **Byong-Hun Jeon**, Sean S. Lee, Jung Rae Kim. Dual-stage pulse-feed operation enhanced methanation of lipidic waste during co-digestion using acclimatized consortia. *Renewable and Sustainable Energy Reviews*, 145, 111096, 2021.
173. Swapnil M. Ptail, Mayur B. Kurade, Bikram Basak, Shouvik Saha, Min Jang, Sang-Hyoun Kim, **Byong-Hun Jeon**. Anaerobic co-digester microbiome during food waste valorization reveals Methanosaeta mediated methanogenesis with improved carbohydrate and lipid metabolism. *Bioresource technology*, 332, 125123, 2021.
174. Mayur B. Kurade, Yoon Hee Ha, Jiu-Qiang Xiong, Sanjay P Govindwar, Min Jang, **Byong-Hun Jeon**. Phytoremediation as a green biotechnology tool for emerging environmental pollution: A step forward towards sustainable rehabilitation of the environment. *Chemical Engineering Journal*, 415, 219040, 2021.
175. Sang-Hun Lee, Mayur B. Kurade, **Byong-Hun Jeon**, Jungeun Kim, Yuanzhang Zheng, El-Sayed Salama. Water condition in biotrickling filtration for the efficient removal of gaseous contaminants.

Critical Reviews in Biotechnology, 41, 8, 1279-1296, 2021.

176. Subbaiah Muthu Prabhu, Chitiphon Chuaicham, Chang Min Park, **Byong-Hun Jeon**, Keiko Sasaki. Synthesis and characterization of defective UiO-66 for efficient co-immobilization of arsenate and fluoride from single/binary solutions. *Environmental Pollution*, 278, 116841, 2021.
177. Bikram Basak, Swapnil M. Ptail, Mayur B. Kurade, Geon-Soo Ha, Sanjay P. Govindwar, Sean S. Lee, Soon Woong Chang, Woo Jin Chung, **Byong-Hun Jeon**. Rapid recovery of methane yield in organic overloaded-failed anaerobic digesters through bioaugmentation with acclimatized microbial consortium. *Science of the Total Environment*, 764, 144219, 2021.
178. Mayur B. Kurade, Mukesh Kumar Awasthi, Sanjay Prabhu Govindwar, **Byong-Hun Jeon**, Dayanand Kalyani. Editorial: Microbiotechnology tools for wastewater cleanup and organic solids reduction. *Frontiers in Microbiology, section Microbiotechnology,* 12, 631506, 2021.
179. Min jang, Choe Earn Choong, Kien Tiek Wong, Seok Byum Jang, Saravanan Pichiah, Chulhwan Park, Sang-Hyoun Kim, **Byong-Hun Jeon**, Jaeyoung Choi, Yeomin Yoon. Granular Mg-Fe layered double hydroxide prepared using dual polymers: Insights into synergistic removal of As(III) and As(V). *Journal of Hazardous Materials*, 403, 123883, 2021
180. Geon-Soo Ha, Shouvik Saha, Mayur B. Kurade, Hyun-Jo Ahn, Bikram Basak, Gyeong-Uk Kim, Ji-Kwang Cheon, **Byong-Hun Jeon**. High-density biofuels production from holistic conversion of microalgal strains through energy-saving integrated approach. *Chemical Engineering Journal*, 421, 127798, 2021.
181. Min jang, Choe Earn Choong, Kien Tiek Wong, Hyeseong Kim, Seok Byum Jang, So Yeon Yoon, In Wook Nah, Wooyul Kim, Sang-Hyoun Kim, **Byong-Hun Jeon**, Yeomin Yoon. Unexpected discovery of superoxide radical generation by oxygen vacancies containing biomass derived granular activated carbon. *Water Research*, 190, 116757, 2021.
182. Prakash Krishnaiah, Sivakumar Manickam, Chantara Thevy Ratnam, MS Raghu, L Parashuram, S Prasanna Kumar, **Byong-Hun Jeon**. Mechanical, thermal and dynamic-mechanical studies of functionalized halloysite nanotubes reinforced polypropylene composites. *Polymers and Polymer Composites*, 29(8), 1212-1221, 2021.
183. Paul Olusegun Bankole, Kirk T Semple, **Byong-Hun Jeon**, Sanjay P Govindwar. Impact of redox-mediators in the degradation of olsalazine by marine-derived fungus, Aspergillus aculeatus strain bpo2: Response surface methodology, laccase stability and kinetics. *Ecotoxicology and Environmental Safety*, 208, 111742, 2021.
184. Paul Olusegun Bankole, Kirk Taylor Semple, **Byong-Hun Jeon**, Sanjay Prabhu Govindwar, Biodegradation of fluorene by the newly isolated marine-derived fungus, Mucor irregularis strain bpo1 using response surface methodology, *Ecotoxicology and Environmental Safety*, 208, 111619, 2021
185. Minsoo Kim, Young Eun Song, Jiu-Qiang Xiong, Kyong-Yeol Kim, Ming Jang, **Byong-Hun Jeon**, Jung Rae Kim. Electrochemical detection and simultaneous removal of endocrine disruptor, bisphenol A using a carbon felt electrode. *Journal of Electroanalytical Chemistry*, 880, 114907, 2021.
186. Paul Olusegun Bankole, Kirk Taylor Semple, **Byong-Hun Jeon**, Sanjay Prabhu Govindwar. Biodegradation of fluorine by the newly isolated marine-derived fungus, *Mucor irregularis* strain bpo1 using response surface methodology. Ecotoxicology and Environmental Safety, 208, 111619, 2021.
187. Jong-Hun Park, K. Chandrasekhar, **Byong-Hun Jeon**, Min Jang, Tang Liu, Sang-Hyoun Kim. State-of-the-art technologies for continuous high-rate biohydrogen production. *Bioresource Technology*, 320, 124304, 2021.
188. Jiu-Qiang Xiong, Pengfei Cui, Shaoguo Ru, Sanjay P Govindwar, Mayur B Kurade, Min Jang, Sang-Hyoun Kim, **Byong-Hun Jeon**. Unravelling metabolism and microbial community of a phytobed co-planted with Typha angustifolia and Ipomoea aquatica for biodegradation of doxylamine from wastewater. *Journal of Hazardous Materials*, 401, 123404, 2021.
189. Choe Earn Choong; Kien Tiek Wong, So Yeon Yoon, Heeyeon Kim, Mincheol Shin, Yoon-Young Chang, Jae-kyu Yang, Sang-Hyoun Kim, **Byong-Hun Jeon**, Yeomin Yoon, Min Jang. A facile acid induced water-based solvent by improving hydrophobicity for simultaneous remediating total petroleum hydrocarbon, heavy metals and benzo(a) pyrene contaminated soil: Laboratory- and pilot-

scale studies. *Journal of Cleaner Production*, 278, 123425, 2021

190. Ramesh Kumar, Bikram Basak, **Byong-Hun Jeon**. Sustainable production and purification of succinic acid: A review of membrane-integrated green approach. *Journal of Cleaner Production*, 227, 123954, 2020.
191. Shouvik Saha, Bikram Basak, Jae-Hoon Hwang, El-Sayed Salama, Pradip K. Chatterjee, **Byong-Hun Jeon**. Microbial symbiosis: A network towards biomethanation. *Trends in Microbiology*, 28, 12, 968-984, 2020.
192. Moonis Ali Khan, Ayoub Alqadami, Saikh Wabaidur, Masoom Siddiqui, **Byong-Hun Jeon**, Shareefa Ahmed Alshareef, Zeid Alothman. Oil industry waste based non-magnetic and magnetic hydrochar to sequester potentially toxic post-transition metal ions from water. *Journal of Hazardous Materials*, 400, 123247, 2020.
193. Paul Olusegun Bankole, Kirk Taylor Semple, **Byong-Hun Jeon**, Sanjay Prabhu Govindwar. Enhanced enzymatic removal of anthracene by the mangrove soil-derived fungus, *Aspergillus sydowii* BPOI. *Frontiers of Environmental Science & Engineering*. 14(6): 113, 2020.
194. Bikram Basak, **Byong-Hun Jeon**, Tae Hyun Kim, Jae-Cheol Lee, Pradip Kumar Chatterjee, Hankwon Lim. Dark fermentative hydrogen production from pretreated lignocellulosic biomass: Effects of inhibitory byproducts and recent trends in mitigation strategies. *Renewable & Sustainable Energy Reviews*, 133, 110338, 2020.
195. Saikh Mohammad Wabaidur, Moonis Ali Ali Khan, Masoom R Siddiqui, Marta Otero, **Byong-Hun Jeon**, Zeid A Alothman. Oxygenated functionalities enriched MWCNTs decorated with silica coated spinel ferrite – A nanocomposite for potentially rapid and efficient de-colorization of aquatic environment. *Journal of Molecular Liquids*, 317, 113916, 2020.
196. Paul Olusegun Bankole, Adedotun Adeyinka Adekunle, **Byong-Hun Jeon**, Sanjay Prabhu Govindwar. Novel cobiomass degradation of NSAIDs by two wood rot fungi, Ganoderma applanatum and Laetiporus sulphureus: ligninolytic enzymes induction, isotherm and kinetic studies. *Ecotoxicology and Environmental Safety*, 203, 110997, 2020.
197. Muhammad Usman, El-Sayed Salama, Muhammad Arif, **Byong-Hun Jeon**, Xiangkai Li. Determination of the inhibitory concentration level of fat, oil, and grease (FOG) towards bacterial and archaeal communities in anaerobic digestion. *Renewable and Sustainable Energy Reviews*, 131, 110032, 2020.
198. Rogit Bavi, Zhang Hang, Parikshit Banerjee, Md Aquib, Mahendra Hadhao, Niraj Rane, Sneha Bavi, Kisan Kodam, **Byong-Hun Jeon**, Yueqing Gu. Doxorubicin-Conjugated Innovative 16-mer DNA Aptamer-Based Annexin A1 Targeted Anti-Cancer Drug Delivery*, Molecular Therapy Nucleic Acids*, 21, 4, 1074-7086, 2020.
199. Kien Tiek Wong, Seung Chul Kim, Kayoung Yun, Choe Earn Choong, In Wook Nah, **Byong-Hun Jeon**, Yeomin Yoon, Min Jang. Understanding the potential band position and e–/h+ separation lifetime for Z-scheme and type-II heterojunction mechanisms for effective micropollutant mineralization: Comparative experimental and DFT studies. *Applied Catalysis B: Environmental*, 273, 119034, 2020.
200. Sanjay Govindwar, Ashwini N Kulkarni, Suhas K Kadam, **Byong-Hun Jeon**. Enhanced application of cross-linked enzyme aggregates of lichen *Dermatocarpon vellereceum* released extracellular enzymes for degradation of textile dyes. *International biodeterioration & biodegradation*, 153, 105044, 2020.
201. Prakash Krishnaiah, Sivakumar Manickam, Chantara T Ratnam, Raghu, Parashuram L, Kalappa Prashantha, **Byong-Hun Jeon**. Surface-Treated Short Sisal Fibers and Halloysite Nanotubes for Synergistically Enhanced Performance of Polypropylene Hybrid Composites. *Journal of Thermoplastic Composite Materials*, 1-16, 2020.
202. Sang-Hyoun Kim, Kuppam Chandrasekhar, Gopalakrishnan Kumar, Venkata Mohan S, Ashok Pandey, **Byong-Hun Jeon**, Min Jang. Microbial Electro-Remediation (MER) of hazardous waste in aid of sustainable energy generation and resource recovery. *Environmental Technology & Innovation*, 19, 100997, 2020.
203. K. Chandrasekhar, Gopalakrishnan Kumar, S. Venkata Mohan, Ashok Pandey, **Byong-Hun Jeon**, Min Jang, Sang Hyoun Kim. Microbial Elctro-Remedation(MER) of hazardous waste in aid of sustainable energy generation and resource recovery. *Environmental Technology & Innovation*, 19, 100997, 2020.

204. Jiu-Qiang Xiong, Shaoguo Ru, Qing Zhang, Min Jang, Mayur B. Kurade, Sang-Hyoun Kim, **Byong-Hun Jeon**. Insights into the effect of cerium oxide nanoparticle on microalgal degradation of sulfonamides. *Bioresource Technology*, 309, 123452, 2020.
205. Siddhesha Kshirsagar, Pankajkumar Waghmare, Ganesh Saratale, Rijuta Ganesh Saratale, Mayur Kurade, **Byong-Hun Jeon**, Sanjay Govindwar. Composition of synthesized cellulolytic enzymes varied with the usage of agricultural substarates and microorganisms. *Applied Biochemistry and Biotechnology*, 191:1695-1710, 2020.
206. Vishal V. Chandanshive, Suhas K. Kadam, Niraj R. Rane, **Byong-Hun Jeon**, Jyoti P. Jadhav, Sanjay P. Govindwar. In situ textile wastewater treatment in high rate transpiration system furrows planted with aquatic macrophytes and floating phytobeds. *Chemosphere*, 126513, 2020.
207. Kyung-Won Jeon, Jae-Wan Cho, Hyun-Suk Shim, Won-Jun Jang, **Byong-Hun Jeon**, Hyun-Seog Roh. One-pot sol-gel synthesis of a CoMo catalyst for sustainable biofuel production by solvent- and hydrogen-free deoxygenation: Effect of citric acid ratio. *Sustainable Energy & Fuels*, 4, 6, 2841-2849, 2020.
208. Shah Faisal, El-Sayed Salama, Sedky H.A Hassan, **Byong-Hun Jeon**, Xiangkai Li. Biomethane enhancement via plastic carriers in anaerobic co-digestion of agricultural wastes. *Biomass Conversion and Biorefinery*, 12, 2553-2565, 2020.
209. Sang-Hun Lee, Jiu-Qiang Xiong, Swapnil M. Patil, Mayur B. Kurade, Sanjay P. Govindwar, Sang-Eun Oh, **Byong-Hun Jeon**. Toxicity of benzophenone-3 and its biodegradation in a freshwater microalga, *Scenedesmus obliquus*. *Journal of Hazardous Materials*, 389, 122149, 2020.
210. Geon-Soo Ha, Marwa M. El-Dalatony, Mayur B. Kurade, El-Sayed Salama, Bikram Basak, Dongho Kang, Hyun-Seog Roh, Hankwon Lim, **Byong-Hun Jeon**. Energy-efficient pretreatments for the enhanced conversion of microalgal biomass to biofuels. *Bioresource Technology*, 123333, 2020.
211. Kyoung-Jin Kim, Yeol-Lim Lee, Hyun-Suk Na, Seon-Yong Ahn, Jae-Oh Shim, **Byong-Hun Jeon**, Hyun-Seog Roh. Efficient waste to energy conversion based on Co-CeO2 catalyzed water-gas shift reaction. *Catalysts*, 10, 420, 2020.
212. Chan-Ung Kang, Do-Hyeon Kim, Moonis Ali Khan, Rahul Kumar, Seung-Eun Ji, Kung-Won Choi, Ki-Jung Paeng, Sungmin Park, **Byong-Hun Jeon**. Pyrolytic remediation of crude oil-contaminated soil. *Science of the Total Environment*, 713, 136498, 2020.
213. Geon-Soo Ha, Do-Hyeon Kim, Marwa M. El-Dalatony, El-Sayed Salama, Mayur B. Kurade, Hyun-Seog Roh, Abd El-Fatah Abomohra, **Byong-Hun Jeon**. Biocomponent-based microalgal transformations into biofuels during the fermentation process. *Bioresource Technology*, 302, 122809, 2020.
214. Maryam Aram, Mehrdad Farhadian, Ali Reza Solaimany Nazar, Shaharam Tangestaninejad, Parisa Eskandari, **Byong-Hun Jeon**. Metronidazole and cephalexin degradation by using of Urea/TiO_2/$ZnFe_2O_4$/Clinoptiloite catalyst under visible-light irradiation and ozone injection. *Journal of Molecular Liquids*, 304, 112764, 2020.
215. Bikram Basak, Shouvik Saha, Pradip K. Chatterjee, Amit Ganguly, Soon Woong Chang, **Byong-Hun Jeon**. Pretreatment of polysaccharidic wastes with cellulolytic Aspergillus fumigatus for enhanced production of biohythane in a dual-stage process. *Bioresource Technology*, 299, 122592, 2020.
216. El-Sayed Salama, **Byong-Hun Jeon**, Mayur B Kurade, Swapnil M Patil, Muhammad Usman, Xiangkai Li, Hankwon Lim. Enhanced anaerobic co-digestion of fat, oil, and grease by calcium addition: Boost of biomethane production and microbial community shift. *Bioresourse Technology*. 296, 122353, 2020.
217. Mayur B. Kurade, Shouvik Saha, Jung Rae Kim, Hyun-Seog Roh, **Byong-Hun Jeon**. Microbial community acclimatization for enhancement in the methane productivity of anaerobic co-digestion of fats, oil, and grease. *Bioresource Technology*, 296, 122294, 2020.
218. Kumar Dhaka, Chan-Ung Kang, Dinesh Mohan, Moonis Ali Khan, Joon-Hak Lee, Sean S. Lee, **Byong-Hun Jeon**. Waste sludge derived adsorbents for arsenate removal from water. *Chemosphere*, 239, 124832, 2020.
219. Swapnil M. Patil, Mangesh V. Suryavanshi, Vishal V. Chandanshive, Mayur B. Kurade, Sanjay P. Govindwar, **Byong-Hun Jeon**. Regeneration of textile wastewater deteriorated microbial diversity of

soil microcosm through bioaugmentation. *Chemical Engineering Journal*, 380, 122533, 2020.

220. Yeol-Lim Lee, Kyoung-Jin Kim, Won-Jun Jang, Jae-Oh Shim, Kyung-Won Jeon, Hyun-Suk Na, Hak-Min Kim, Jong Wook Bae, Sung Chan Nam, **Byong-Hun Jeon**, Hyun-Seog Roh. Increase in stability of $BaCo/CeO_2$ catalyst by optimizing the loading amount of Ba promoter for high-temperature water-gas shift reaction using waste-derived synthesis gas. *Renewable Energy*, 145, 2715-2722. 2020.
221. Boreum Lee, Hyunjun Lee, Sehwa Kim, Hyun-Seok Cho, Won-Chul Cho, **Byong-Hun Jeon**, Chang-Hee Kim, Hankwon Lim. Quantification of economic uncertainty for synthetic natural gas production in a H_2O permeable membrane reactor as simultaneous power-to-gas and CO_2 utilization technologies. *Energy*, 182, 1058-1068, 2019.
222. Jiu-Qiang Xiong, **Byong-Hun Jeon**, Sanjay P. Govindwar, Mayur B. Kurade, Swapnil M. Patil, Jung-Han Park, Ki-Hyun Kim. Plant and microalgae consortium for an enhanced biodegradation of sulfamethazine. *Environmental Science and Pollution Research*, 26, 34552-34561, 2019.
223. Shouvik Saha, **Byong-Hun Jeon**, Mayur B Kurade, Sanjay P Govindwar, Pradip K Chatterjee, Sang-Eun Oh, Hyun-Seog Roh, Sean S Lee. Interspecies microbial nexus facilitated methanation of polysaccharidic wastes. *Bioresource Technology*, 289, 121638, 2019.
224. Bikram Basak, **Byong-Hun Jeon**, Mayur B. Kurade, Ganesh D. Saratale, Biswanath Bhunia, Pradip K. Chatterjee, Apurba Dey. Biodegradation of high concentration phenol using sugarcane bagasse immobilized *Candida tropicalis* PHB5 in a packed-bed column reactor. *Ecotoxicology and Environmental Safety*, 180, 317-325, 2019.
225. Marwa M. El-Dalatony, Shouvik Saha, Sanjay P. Govindwar, Reda A.I. Abou-Shanab, **Byong-Hun Jeon**. Biological conversion of amino acids to higher alcohols. *Trends in Biotechnology*, 37, 855-869, 2019.
226. Hyun-Suk Na, Seon-Yong Ahn, Jae-Oh Shim, Kyung-Won Jeon, Hak-Min Kim, Yeol-Lim Lee, Won-Jun Jang, **Byong-Hun Jeon**, Hyun-Seog Roh. Effect of precipitation on physico-chemical and catalytic properties of Cu-Zn-Al catalyst for water-gas shift reaction. *Korean Journal of Chemical Engineering*, 36, 1243-1248, 2019.
227. Hany S. EL-Mesery, Abd El-Fatah Abomohra, Chan-Ung Kang, Ji-Kwang Cheon, Bikram Basak, **Byong-Hun Jeon**. Evaluation of infrared radiation combined with hot air convection for energy-efficient drying of biomass. *Energies*, 12, 2018, 2019.
228. El-Sayed Salama, Sanjay Prabhu Govindwar, Rahul V. Khandare, Hyun-Seog Roh, **Byong-Hun Jeon**, Xiangkai Li. Can omics approaches improve microalgal biofuels under abiotic stress? *Trends in Plant Science*, 24, 611-624, 2019.
229. Aswini Vellingiri, Young Eun Song, Ganapathiraman Munussami, Changman Kim, Chulhwan Park, **Byong-Hun Jeon**, Sun-Gu Lee, Jung Rae Kim. Overexpression of c-type cytochrome, *CymA* in *Shewanella oneidensis* MR-1 for enhanced bioelectricity generation and cell growth in a microbial fuel. *Journal of Chemical Technology and Biotechnology*. 94, 2115-2122, 2019.
230. Jae-Oh Shim, Hyun-Suk Na, Seon-Yong Ahn, Kyung-Won Jeon, Won-Jun Jang, **Byong-Hun Jeon**, Hyun-Seog Roh. An important parameter for synthesis of Al_2O_3 supported Cu-Zn catalysts in low-temperature water-gas shift reaction under practical reaction condition. *International Journal of Hydrogen Energy*, 44, 14853-14860, 2019.
231. Rijuta Ganesh Saratale, Ganesh Dattatraya Saratale, Si-Kyung Cho, Gajanan Ghodake, Avinash Kadam, Sunil Kumar, Sikandar I. Mulla, Dong-Su Kim, **Byong-Hun Jeon**, Jo Shu Chang, Han-Seung Shin. Phyto-fabrication of silver nanoparticles by *Acacia nilotica* leaves: Investigating their antineoplastic, free radical scavenging potential and application in H_2O_2 sensing. *Journal of the Taiwan Institute of Chemical Engineers*, 99, 239-249, 2019.
232. Heonseop Eom, Ji-hoon Hwang, Sedky H.A. Hassan, Jin Ho Joo, Jang Hyun Hur, Kangmin Chon, **Byong-Hun Jeon**, Young-Chae Song, Kyu-Jung Chae, Sang-Eun Oh. Rapid detection of heavy metal-induced toxicity in water using a fed-batch sulfur-oxidizing bacteria (SOB) bioreactor. *Journal of Microbiological Methods*. 161, 35-42, 2019.
233. Mayur B. Kurade, Jiu-Qiang Xiong, Sanjay P. Govindwar, Hyun-Seog Roh, Ganesh D. Saratale, **Byong-Hun Jeon**, Hankwon Lim. Uptake and biodegradation of emerging contaminant sulfamethoxazole from aqueous phase using *Ipomoea aquatica*. *Chemosphere*, 225, 696-704, 2019.
234. Tatoba R. Waghmode, Mayur B. Kurade, Ramchandra T. Sapkal, Chandrakant H. Bhosale, **Byong-**

Hun Jeon, Sanjay P. Govindwar. Sequential photocatalysis and biological treatment for the enhanced degradation of the persistent azo dye methyl red. *Journal of Hazardous Materials*. 371, 115-122, 2019.

235. El-Sayed Salama, Hyun-Seog Roh, Subhabrata Dev, Moonis Ali Khan, Reda A. I. Abou-Shanab, Soon Woong Chang, **Byong-Hun Jeon**. Algae as a green technology for heavy metals removal from various wastewater. *World Journal of Microbiology and Biotechnology* 35:75, 2019.
236. Jiu-Qiang Xiong, Sun-Joon Kim, Mayur B. Kurade, Sanjay P. Govindwar, Reda A.I. Abou-Shanab, Jungrae Kim, Hyunseok Roh, Moonis Ali Khan, **Byong-Hun Jeon**. Combined effects of sulfamethazine and sulfamethoxazole on a freshwater microalga, *Scenedesmus obliquus*: toxicity, biodegradation, and metabolic fate. *Journal of Hazardous Materials*. 370, 138-146, 2019.
237. Dinh Duc Nguyen, **Byong-Hun Jeon**, Jae Hoon Jeung, Eldon R. Rene, J. Rajesh Banu, Balasubramani Ravindran, Cuong Manh Vu, Huu Hao Ngo, Wenshan Guo, Soon Woong Chang. Thermophilic anaerobic digestion of model organic wastes: Evaluation of biomethane production and multiple kinetic models analysis. *Bioresource Technology*, 280, 269-276, 2019.
238. Sedky H.A. Hassan, Anup Gurung, Woo-Chang Kang, Beom Soo Shin, Mostafa Rahimnejad, **Byong-Hun Jeon**, Jung Rae Kim, Sang-Eun Oh. Real-time monitoring of water quality of stream water using sulfur-oxidizing bacteria as bio-indicator. *Chemosphere*. 223, 58-63, 2019.
239. Rijuta Ganesh Saratale, Ganesh Dattatraya Saratale, Gajanan Ghodake, Si-Kyung Cho, Avinash Kadam, Gopalakrishnan Kumar, **Byong-Hun Jeon**, Deepak Pant, Amit Bhatnagar, Han Seung Shin. Wheat straw extracted lignin in silver nanoparticles synthesis: Expanding its prophecy towards antineoplastic potency and hydrogen peroxide sensing ability. *International Journal of Biological Macromolecules*. 128, 391-400, 2019.
240. Pradip Kumar Chatterjee, Shubhaneel Neogi, Shouvik Saha, **Byong-Hun Jeon**, Apurba Dey. Low pH treatment of starch industry effluent with bacteria from leaf debris for methane production. *Water Environment Research*. 91, 377-385, 2019.
241. Naveed Ahmed, Yong sik Ok, **Byong-Hun Jeon**, Jung Rae Kim, Kyu-Jung Chae, Sang-Eun Oh. Assessment of benzene, toluene, ethyl-benzene, and xylene (BTEX) toxicity in soil using sulfur-oxidizing bacterial (SOB) bioassay, *Chemosphere*, 220, 651-657, 2019.
242. Subhabrata Dev, Shouvik Saha, Mayur B Kurade, El-Sayed Salama, Marwa M El-Dalatony, Geon-Soo Ha, Soon Woong Chang, **Byong-Hun Jeon**. Perspective on anaerobic digestion for biomethanation in cold environments, *Renewable and Sustainable Energy Reviews*, 103, 85-95, 2019.
243. Hak-Min Kim, Beom-Jun Kim, Won-Jun Jang, Jae-Oh Shim, Kyung-Won Jeon, Hyun-Suk Na, Yeol-Lim Lee, **Byong-Hun Jeon**, Hyun-Seog Roh. Effect of support materials and Ni loading on catalytic performance for carbon dioxide reforming of coke oven gas. *International Journal of Hydrogen Energy*, 44, 8233-8242, 2019.
244. Ashwini N. Kulkarni, Bhumika N. Bhalkar, Rahul V. Khandare, Mayur B. Kurade, **Byong-Hun Jeon**, Sanjay P. Govindwar. Densitometric quantification for the validation of decolorization of Disperse Orange ERL by lichen *Parmelia* sp. *Journal of Bioscience and Bioengineering*. 127, 388-393, 2019.
245. Mayur B. Kurade, Tatoba R Waghmode, Jiu-Qiang Xiong, Sanjay P Govindwar, **Byong-Hun Jeon**, Decolorization of textile industry effluent using immobilized microbial consortium cells in upflow fixed bed reactor. *Journal of Cleaner Production*, 213, 884-891, 2019.
246. Marwa El-Dalatony, El-Sayed Salama, Mayur B. Kurade, Kyoung-Yeol Kim, Sanjay P. Govindwar, Jung Rae Kim, Eilhann E. Kwon, Booki Min, Min Jang, Sang-Eun Oh, Soon Woong Chang, **Byong-Hun Jeon**. Whole conversion of microalgal biomass into biofuels through successive high-throughput fermentation, *Chemical Engieerging Journal*, 360, 797-805, 2019.
247. Jiu-Qiang Xiong, Sanjay Govindwar, Mayur B. Kurade, Ki-Jung Paeng, Hyun-Seog Roh, Moonis Ali Khan, **Byong-Hun Jeon**. Toxicity of sulfamethazine and sulfamethoxazole and their removal by a green microalga, *Scenedesmus obliquus*, *Chemosphere*, 218, 551-558, 2019.
248. Seong Yeob Jeong, Soon Woong Chang, Huu Hao Ngo, Wenshan Guo, Long D. Nghiem, J. Rajesh Banu, **Byong-Hun Jeon**. Dinh Duc Nguyen. Influence of thermal hydrolysis pretreatment on physicochemical properties and anaerobic biodegradability of waste activated sludge with different solids content. *Waste Management*. 85, 214-221, 2019.
249. Balasubramani Ravindran, Dinh Duc Nguyen, Dhiraj Kumar Chaudhary, Soon Woong Chang, Jaisoo

Kim, Sang Ryong Lee, Joung Du Shin, **Byong-Hun Jeon**, Seok Joo Chung, Jae Joung Lee. Influence of biochar on physico-chemical and microbial community during swine manure composting process. *Journal of Environmental Management*, 232, 592-599, 2019.

250. Sarita Dhaka, Rahul Kumar, Akash Deep, Mayur B. Kurade, Sang-Woo Ji, **Byong-Hun Jeon**. Metal–Organic Frameworks (MOFs) for the removal of emerging contaminants from aquatic environments. *Coordination Chemistry Reviews*. 380, 330-352, 2019.
251. Shouvik Saha, **Byong-Hun Jeon**, Mayur B. Kurade, Pradip K. Chatterjee, Soon Woong Chang, Kesavan Markkandan, El-Sayed Salama, Sanjay P. Govindwar, Hyun-Seog Roh. Microbial acclimatization to lipidic-waste facilitates the efficacy of acidogenic fermentation. *Chemical Engineering Journal*. 358, 188-196, 2019.
252. Mi Yeon Kim, Changman Kim, Satish Kumar Ainala, Hyokwan Bae, **Byong-Hun Jeon**, Sunghoon Park, Jung Rae Kim. Metabolic shift of *Klebsiella pneumoniae* L17 by electrode-based electron transfer using glycerol in a microbial fuel cell. *Bioelectrochemistry*. 125, 1-7, 2019.
253. Kyung-Won Jeon, Jae-Oh Shim, Won-Jun Jang, Da-We Lee, Hyun-Suk Na, Hak-Min Kim, Yeol-Lim Lee, Seong-Yeun Yoo, Hyun-Seog Roh, **Byong-Hun Jeon**, Jong Wook Bae, Chang Hyun Ko. Effect of calcination temperature on the association between free NiO species and catalytic activity of Ni-$Ce_{0.6}Zr_{0.4}O_2$ deoxygenation catalysts for biodiesel production. *Renewable Energy*. 131, 144-151, 2019.
254. Marwa M. El-Dalatony, **Byong-Hun Jeon**, El-Sayed Salama, Mohamed Eraqy, Won Beom Kim, Jihoon Wang, Taewoong Ahn. Occurrence and characterization of paraffin wax formed in developing wells and pipelines. *Energies*, 12, 967, 2019.
255. Parisa Eskandari, Mehrdad Farhadian, Ali Reza Solaimany Nazar, **Byong-Hun Jeon**. Adsorption and photodegradation efficiency of TiO_2/Fe_2O_3/PAC and TiO_2/Fe_2O_3/zeolite nanophotocatalysts for the removal of cyanide, *Industrial and Engineering Chemistry Research*, 58, 2099-2112, 2019.
256. Sharmini Sunasee, Kah Hon Leong, Kien Tiek Wong, Gooyong Lee, Saravanan Pichiah, In Wook Nah, **Byong-Hun Jeon**, Yeomin Yoon, Min Jang. Sonophotocatalytic degradation of bisphenol A and its intermediates with graphitic carbon nitride. *Environmental Science and Pollution Research*. 26, 1082-1093, 2019.
257. Muruganandham Thanavel, Suhas K. Kadam, Shivtej P. Biradar, Sanjay P. Govindwar, **Byong-Hun Jeon**, Senthil Kumar Sadasivam. Combined biological and advanced oxidation process for decolorization of textile dyes. *SN Applied Sciences*, 1:97, 2019
258. El-Sayed Salama, Shouvik Saha, Mayur B. Kurade, Subhabrata Dev, Soon Woong Chang, **Byong-Hun Jeon**. Recent trends in anaerobic co-digestion: Fat, oil, and grease (FOG) for enhanced biomethanation. *Progress in Energy and Combustion Science*. 70, 22-42, 2019.
259. Kyung-Won Jeon, Jae-Oh Shim, Jae-Wan Cho, Won-Jun Jang, Hyun-Suk Na, Hak-Min Kim, Yeol-Lim Lee, **Byong-Hun Jeon**, Jong Wook Bae, Hyun-Seog Roh. Synthesis and characterization of Pt-, Pd-, and Ru-promoted Ni−$Ce_{0.6}Zr_{0.4}O_2$ catalysts for efficient biodiesel production by deoxygenation of oleic acid. *Fuel*. 236, 928-933, 2019.
260. Young Eun Song, Marwa M. El-Dalatony, Changman Kim, Mayur B. Kurade, **Byong-Hun Jeon**, Jung Rae Kim. Harvest of electrical energy from fermented microalgal residue using a microbial fuel cell. *International Journal of Hydrogen Energy*. 44, 2372-2379, 2019.
261. Mayur B. Kurade, Shouvik Saha, El-Sayed Salama, Swapnil M. Patil, Sanjay P. Govindwar, **Byong-Hun Jeon**. Acetoclastic methanogenesis led by *Methanosarcina* in anaerobic co-digestion of fats, oil and grease for enhanced production of methane. *Bioresource Technology*. 272, 351-359, 2019.
262. Sung-Eun Chang, Shouvik Saha, Mayur B Kurade, El-Sayed Salama, Soon Woong Chang, Min Jang, **Byong-Hun Jeon**. Improvement of acidogenic fermentation using an acclimatized microbiome. *International Journal of Hydrogen Energy*. 43, 22126-22134, 2018.
263. Bikram Basak, Adiba Fatima, **Byong-Hun Jeon**, Amit Ganguly, Pradip Kumar Chatterjee, Apurba Dey. Process kinetic studies of biohydrogen production by co-fermentation of fruit-vegetable wastes and cottage cheese whey. *Energy for Sustainable Development*. 47, 39-52, 2018.
264. Suhas K. Kadam, Anuprita D. Watharkar, Vishal V. Chandanshive, Rahul V. Khandare, **Byong-Hun Jeon**, Jyoti P. Jadhav, Sanjay P. Govindwar. Co-planted floating phyto-bed along with microbial fuel cell for enhanced textile effluent treatment. *Journal of Cleaner Production*. 203, 788-798, 2018.
265. Ezaz Ahmed, Jan E. Szulejko, Adedeji A. Adelodun**,** Satya Sundar Bhattacharya, **Byong Hun Jeon**,

Sandeep Kumar, Ki-Hyun Kim. Sorptive process and breakthrough behavior of odorous volatile compounds on inert surfaces. *Scientific Reports*. 8, 13118, 2018.

266. Suhas K. Kadam, Asif S. Tamboli, Susmit B. Sambhare, **Byong-Hun Jeon**, Sanjay P. Govindwar. Enzymatic analysis, structural study and molecular docking of laccase and catalase from *B. subtilis* SK1 after textile dye exposure. *Ecological Informatics*. 48, 269-280, 2018.
267. Vishal V Chandanshive, Suhas K Kadam, Rahul V Khandare, Mayur B Kurade, **Byong-Hun Jeon**, Jyoti P Jadhav, Sanjay P. Govindwar. In situ phytoremediation of dyes from textile wastewater using garden ornamental plants, effect on soil quality and plant growth. *Chemosphere*. 210, 968-976, 2018.
268. Pankajkumar R. Waghmare, Swapnil M. Patil, Sanjivani L. Jadhav, **Byong-Hun Jeon**, Sanjay P. Govindwar. Utilization of agricultural waste biomass by cellulolytic isolate *Enterobacter* sp. SUK-Bio. *Agriculture and Natural Resources*. 52, 399-406, 2018.
269. Anuprita D. Watharkar, Suhas K Kadam, Rahul V Khandare, Parag D Kolekar, **Byong-Hun Jeon**, Jyoti P. Jadhav, Sanjay P. Govindwar. *Asparagus densiflorus* in a vertical subsurface flow phytoreactor for treatment of real textile effluent: A lab to land approach for in situ soil remediation. *Ecotoxicology and Environmental Safety*. 161, 70-77, 2018.
270. Jae-Oh Shim, Won-Jun Jang, Kyung-Won Jeon, Da-We Lee, Hyun-Suk Na, Hak-Min Kim, Yeol-Lim Lee, Seong-Yeun Yoo, **Byong-Hun Jeon**, Hyun-Seog Roh, Chang Hyun Ko. Petroleum like biodiesel production by catalytic decarboxylation of oleic acid over Pd/Ce-ZrO2 under solvent-free condition. *Applied Catalysis A: General*, 563, 163-169, 2018.
271. Shouvik Saha, **Byong-Hun Jeon**, Mayur B Kurade, Shekhar B. Jadhav, Pradip K Chatterjee, Soon Woong Chang, Sanjay P Govindwar, Sun Joon Kim. Optimization of dilute acetic acid pretreatment of mixed fruit waste for increased methane production. *Journal of Cleaner Production*. 190, 411-421, 2018.
272. El-Sayed Salama**,** Jae-Hoon Hwang, Marwa M. El-Dalatony, Mayur B. Kurade, Akhil N Kabra, Reda A.I. Abou-Shanab, Ki-Hyun Kim, Il-Seung Yang, Sanjay P. Govindwar, Sunjoon Kim, **Byong-Hun Jeon**. Enhancement of microalgal growth and biocomponent-based transformations for improved biofuel recovery: A review. *Bioresource Technology*. 258, 365-375, 2018.
273. Nasrin Ghorbanzadeh, Rahul Kumar, Sang-hun Lee, Hyun-Sung Park, **Byong-Hun Jeon**. Impact of *Shewanella oneidensis* on heavy metals remobilization under reductive conditions in soil of Guilan Province, Iran. *Geosciences Journal*. 22, 423-432, 2018.
274. Woo Jin Chung, Dinh Duc Nguyen, Xuan Thanh Bui, Sang Woo An, J. Rajesh Banu, Sang Moon Lee, Sung Su Kim, Dea Hyun Moon, **Byong-Hun Jeon**, Soon Woong Chang. A magnetically separable and recyclable Ag-supported magnetic TiO_2 composite catalyst: Fabrication, characterization, and photocatalytic activity. *Journal of Environmental Management*. 213, 541-548, 2018.
275. Rahul Kumar, Sun-Joon Kim, Kang-Ho Kim, Mayur B. Kurade, Sang-hun Lee, Sang-Eun Oh, Hyun-Seog Roh, **Byong-Hun Jeon**. Development of hybrid adsorbent for effective aqueous phase sorptive removal of copper. *Surface and Interface Analysis*, 50, 480-487, 2018.
276. Sarita Dhaka, Rahul Kumar, Sang-hun Lee, Mayur B. Kurade, **Byong-Hun Jeon**. Degradation of ethyl paraben in aqueous medium using advanced oxidation processes: Efficiency evaluation of UV-C supported oxidants. *Journal of Cleaner Production*. 180, 505-513, 2018.
277. Pankajkumar R. Waghmare, Anuprita D. Watharkar, **Byong-Hun Jeon**, Sanjay Prabhu Govindwar. Bio-ethanol production from waste biomass of *Pogonatherum crinitum* phytoremediator: An eco-friendly strategy for renewable energy. *3 Biotech*. 8(3), 158-167, 2018.
278. Ayoub Abdullah Alqadami, Moonis Ali Khan, Marta Otero, Masoom Raza Siddiqui, **Byong-Hun Jeon**, Khalid Mujasam Batoo. A magnetic nanocomposite produced from camel bones for an efficient adsorption of toxic metals from water. *Journal of Cleaner Production*. 178, 293-304, 2018.
279. Rahul Kumar, Sun-Joon Kim, Kang-Ho Kim, Mayur B Kurade, Sang-hun Lee, Sang-Eun Oh, Hyun-Seog Roh, **Byong-Hun Jeon**. Development of hydrid adsorbent for effective aqueous phase sorptive removal of copper. *Surface and Interface Analysis*. 50, 480-487, 2018.
280. Yeol-Lim Lee, Ajay Jha, Won-Jun Jang, Jae-Oh Shim, Chandrashekhar V. Rode, **Byong-Hun Jeon**, Jong Wook Bae, Hyun-Seog Roh. Effect of alkali and alkaline earth metal on Co/CeO_2 catalyst for the water-gas shift reaction of waste derived synthesis gas. *Applied Catalysis A: General*. 551, 63-70, 2018.

281. Ashwini N. Kulkarni, Anurpita D. Watharkar, Niraj R. Rane, **Byong-Hun Jeon**, Sanjay Govindwar. Decolorization and detoxification of dye mixture and textile effluent by lichen *Dermatocarpon vellereceum* in fixed bed upflow bioreactor with subsequent oxidative stress study. *Ecotoxicology and Environmental Safety*. 148, 17-25, 2018.
282. Pankajkumar R Waghmare, Rahul V. Khandare, **Byong-Hun Jeon**, Sanjay P. Govindwar. Enzymatic hydrolysis of biologically pretreated sorghum husk for bioethanol production. *Biofuel Research Journal*. 19, 846-853, 2018.
283. Rahul Kumar, Sun-Joon Kim, Kang-Ho Kim, Sang-hun Lee, Hyun-Sung Park, **Byong-Hun Jeon**, Removal of hazardous hexavalent chromium from aqueous phase using zirconium oxide-immobilized alginate beads. *Applied Geochemistry*, 88, 113-121, 2018.
284. Jiu-Qiang Xiong, Mayur B. Kurade, **Byong-Hun Jeon**. Can microalgae remove pharmaceutical contaminants from water? *Trends in Biotechnology*. 36(1), 30-44, 2018.
285. Suhas K. Kadam, Vishal V. Chandanshive, Niraj R. Rane, Swapnil M. Patil, Avinash R. Gholave, Rahul V. Khandare, Amrut R. Bhosale, **Byong-Hun Jeon,** Sanjay P. Govindwar. Phytobeds with *Fimbristylis dichotoma* and *Ammannia baccifera* for treatment of real textile effluent: An in-situ treatment, anatomical studies and toxicity evaluation. *Environmental Research*. 160, 1-11, 2018.
286. Chae Ho Im, Changman Kim, Young Eun Song, Sang-Eun Oh, **Byong-Hun Jeon**, Jung Rae Kim. Electrochemically enhanced microbial CO conversion to volatile fatty acids using neutral red as an electron mediator. *Chemosphere*. 191, 166-173, 2018.
287. Hak-Min Kim, Won-Jun Jang, Seong-Yeun Yoo, Jae-Oh Shim, Kyung-Won Jeon, Hyun-Suk Na, Yeol-Lim Lee, **Byong-Hun Jeon**, Jong Wook Bae, Hyun-Seog Roh. Low temperature steam reforming of methane using metal oxide promoted Ni-$Ce_{0.8}Zr_{0.2}O_2$ catalysts in a compact reformer. *International Journal of Hydrogen Energy.* 43(1), 262-270, 2018.
288. El-Sayed Salama, **Byong-Hun Jeon**, Soon Woong Chang, Sang-hun Lee, Hyun-Seog Roh, Il-Seung Yang, Mayur B Kurade, Marwa M El-Dalatony, Do-Hyeon Kim, Ki-Hyun Kim, Sunjoon Kim. Interactive effect of indole-3-acetic acid and diethyl aminoethyl hexanoate on the growth and fatty acid content of microalgae for biodiesel production. *Journal of Cleaner Production*. 168, 1017-1024, 2017.
289. Jechan Lee, Jong-Min Jung, Chanhyuk Park, **Byong-Hun Jeon**, Chi-Hwa Wang, Sang-Ryong Lee, Eilhann E. Kwon. Rapid conversion of fat, oil and grease (FOG) into biodiesel without pre-treatment of FOG. *Journal of Cleaner Production*. 168, 1211-1216, 2017.
290. Marwa M. El-Dalatony, El-Sayed Salama, Mayur B. Kurade, Sedky H.A. Hassan, Sang-Eun Oh, Sunjoon Kim, **Byong-Hun Jeon**. Utilization of microalgal biofractions for bioethanol, higher alcohols, and biodiesel production: A review. *Energies*. 10, 2110-2128, 2017.
291. El-Sayed Salama, Mayur B Kurade, Reda A.I. Abou-Shanab, Marwa M El-Dalatony, Il-Seung Yang, Book Min, **Byong-Hun Jeon**. Recent progress in microalgal biomass production coupled with wastewater treatment for biofuel generation. *Renewable and Sustainable Energy Reviews*. 79, 1189-1211, 2017.
292. Changman Kim, Mi Yeon Kim, Iain Michie, **Byong-Hun Jeon**, Giuliano C. Premier, Sunghoon Park, Jung Rae Kim. Anodic electro-fermentation of 3-hydroxypropionic acid from glycerol by recombinant *Klebsiella pneumoniae* L17 in a bioelectrochemical system. *Biotechnology for Biofuels*. 10, 199-209, 2017.
293. Sarita Dhaka, Rahul Kumar, Moonis Ali Khan, Ki-Jung Paeng, Mayur B. Kurade, Sun-Joon Kim, **Byong-Hun Jeon**. Aqueous phase degradation of methyl paraben using UV- activated persulfate method. *Chemical Engineering Journal*. 321, 11-19, 2017.
294. Dinh Duc Nguyen, Jeong Seong Yeop, Jaehoon Choi, Sungsu Kim, Soon Woong Chang, **Byong-Hun Jeon**, Wenshan Guo, Huu Hao Ngo. A new approach for concurrently improving performance of South Korean food waste valorization and renewable energy recovery via dry anaerobic digestion under mesophilic and thermophilic conditions. *Waste Management*. 66, 161-168, 2017.
295. Min-Kyu Ji, Hyun-Shik Yun, Jae-Hoon Hwang, El-Sayed Salama, **Byong-Hun Jeon**, Jae-Young Choi. Effect of flue gas CO_2 on the growth, carbohydrate and fatty acid composition of a green microalga *Scenedesmus obliquus* for biofuel production. *Environmental Technology*. 38, 2085-2092, 2017.
296. Jiu-Qiang Xiong, Mayur B. Kurade, Dilip V. Patil, Min Jang, Ki-Jung Paeng, **Byong-Hun Jeon**.

Biodegradation and metabolic fate of levofloxacin via a freshwater green alga, *Scenedesmus obliquus* in synthetic saline wastewater. *Algal Research*. 25, 54-61, 2017.

297. Jiu-Qiang Xiong, Mayur B. Kurade, **Byong-Hun Jeon**. Ecotoxicological effects of enrofloxacin and its removal by monoculture of microalgal species and their consortium. *Environmental Pollution*. 226, 486-493, 2017.
298. Yeol-Lim Lee, Ajay Jha, Won-Jun Jang, Jae-Oh Shim, Kyung-Won Jeon, Hyun-Suk Na, Hak-Min Kim, Da-We Lee, Seong-Yeun Yoo, **Byong-Hun Jeon**, Jong Wook Bae, Hyun-Seog Roh. Optimization of cobalt loading in Co-CeO_2 catalyst for the high temperature water-gas shift reaction. *Topics in Catalysis*. 60, 721-726, 2017.
299. Vanish Kumar, Ki-Hyun Kim, Pawan Kumar, **Byong-Hun Jeon**, Jo-Chun Kim. Functional hybrid nanostructure materials: Advanced strategies for sensing applications toward volatile organic compounds. *Coordination Chemistry Reviews*. 342, 80-105, 2017.
300. Nasrin Ghorbanzadeh, Amir Lakzian, Akram Halajnia, Ui-Kyu Choi, Ki-Hyun Kim, Jong-Oh Kim, Mayur B. Kurade, **Byong-Hun Jeon**. Impact of bioreduction on remobilization of adsorbed cadmium on iron minerals in anoxic condition. *Water Environment Research*. 89, 519-526, 2017.
301. Tanushree Dutta, Eilhann Kwon, Satya Sundar Bhattacharya, **Byong-Hun Jeon**, Akash Deep, Minori Uchimiya, Ki-Hyun Kim. Polycyclic aromatic hydrocarbons and volatile organic compounds in biochar and biochar-amended soil: A review. *GCB Bioenergy*. 9, 990-1004, 2017.
302. Rahul Kumar, Manviri Rani, Himanshu Gupta, Bina Gupta, Daeryong Park, **Byong-Hun Jeon**. Distribution of trace elements in flowing surface waters: Effect of seasons and anthropogenic practices in India. *International Journal of Environmental Analytical Chemistry*. 97(7), 637-656, 2017.
303. Young Eun Song, Hitesh C. Boghani, Hong Suck Kim, Byung Goon Kim, Taeho Lee, **Byong-Hun Jeon**, Giuliano C. Premier, Jung Rae Kim. Electricity production by the application of a low voltage DC-DC boost converter to a continuously operating flat-plate microbial fuel cell. *Energies*. 10, 596, 2017.
304. Jiu-Qiang Xiong, Mayur B. Kurade, **Byong-Hun Jeon**. Biodegradation of levofloxacin by an acclimated freshwater microalga, *Chlorella vulgaris*. *Chemical Engineering Journal*. 313, 1251-1257, 2017.
305. Young Eun Song, Hyeon Jun Cho, Hyerin Park, **Byong-Hun Jeon**, Jung Rae Kim. Customized power management system using a capacitor array and DC/DC booster for flat-plate microbial fuel cells. *Journal of Low Power Electronics*. 13, 60-66, 2017.
306. Chan-Ung Kang, **Byong-Hun Jeon**, Rahul Kumar, Seong-Sook Park, Hyun-Sung Park, Sun-Joon Kim. Stability of coatings on sulfide minerals in acidic and low-temperature environments. *Mine Water and the Environment*. 36, 436-442, 2017.
307. Min-Hee Lee, Ki-Hyun Kim, **Byong-Hun Jeon**, Sang-Hee Jo, Yong-Hyun Kim, Bo-Won Kim, Sung-Back Cho, Ok-Hwa Hwang, Satya Sundar Bhattacharya. Effect of slurry treatment approaches on the reduction of major odorant emissions at a hog barn facility in South Korea. *Environmental Technology*. 38, 506-516, 2017.
308. Jiu-Qiang Xiong, Mayur B. Kurade, Jung Rae Kim, Hyun-Seog Roh, **Byong-Hun Jeon**. Ciprofloxacin toxicity and its co-metabolic removal by a freshwater microalga *Chlamydomonas mexicana*. *Journal of Hazardous Materials*. 323, 212-219, 2017.
309. Adedeji A. Adelodun, Kowsalya Vellingiri, **Byong-Hun Jeon**, Jong-Min Oh, Sandeep Kumar, Ki-Hyun Kim. A test of relative removal properties of various offensive odors by zeolite. *Asian Journal of Atmospheric Environment*. 11, 15-28, 2017.
310. Abinashi Sigdel, Woosik Jung, Booki Min, Minsun Lee, Uikyu Choi, Thomas Timmes, Sun-Joon Kim, Chan-Ung Kang, Rahul Kumar, **Byong-Hun Jeon**. Concurrent removal of cadmium and benzene from aqueous solution by powdered activated carbon impregnated alginate beads. *Catena*. 148, 101-107, 2017.
311. Mayur B. Kurade, Tatoba R. Waghmode, Swapnil M. Patil, **Byong-Hun Jeon**, Sanjay P. Govindwar. Monitoring the gradual biodegradation of dyes in a simulated textile effluent and development of a novel triple layered fixed bed reactor using a bacterium-yeast consortium. *Chemical Engineering Journal*, 307, 1026-1036, 2017.

312. Mayur B Kurade, Jung Rae Kim, Sanjay P Govindwar, **Byong-Hun Jeon**. Insights into microalgae mediated biodegradation of diazinon by *Chlorella vulgaris*: microalgal tolerance to xenobiotic pollutants and metabolism. *Algal Research*. 20, 126-134, 2016.
313. Jae-Oh Shim, Hyun-Suk Na, Ajay Jha, Won-Jun Jang, Dae-Woon Jeong, In Wook Nah, **Byong-Hun Jeon**, Hyun-Seog Roh. Effect of preparation method on the oxygen vacancy concentration of CeO_2-promoted Cu/γ-Al_2O_3 catalysts for HTS reactions. *Chemical Engineering Journal.* 306, 908-915, 2016.
314. Young Eun Song, Hitesh C. Boghani, Hong Suck Kim, Byung Goon Kim, Taeho Lee, **Byong-Hun Jeon**, Giuliano C. Premier, Jung Rae Kim. Maximum power point tracking to increase the power production and treatment efficiency of a continuously operated flat-plate microbial fuel cell. *Energy Technology*. 4, 1427-1434, 2016.
315. Marwa M. El-Dalatony, Mayur B. Kurade, Reda A.I. Abou-Shanab, Hoo Kim, El-Sayed Salama, **Byong-Hun Jeon**. Long-term production of bioethanol in repeated-batch fermentation of microalgal biomass using immobilized *Saccharomyces cerevisiae*. *Bioresource Technology*. 219, 98-105, 2016.
316. Shouvik Saha, Mayur B. Kurade, Marwa M. El-Dalatony, Pradip K. Chatterjee, Dae Sung Lee, **Byong-Hun Jeon**. Improving bioavailability of fruit wastes using organic acid: An exploratory study of biomass pretreatment for fermentation. *Energy Conversion and Management*. 127, 256-264, 2016.
317. Changman Kim, Young Eun Song, Cho Rong Lee, **Byong-Hun Jeon**, Jung Rae Kim. Glycerol-fed microbial fuel cell with a co-culture of *Shewanella oneidensis* MR-1 and *Klebsiella pneumonae* J2B. *Journal of Industrial Microbiology and Biotechnology*. 43, 1397-1403, 2016.
318. Chan-Ung Kang, **Byong-Hun Jeon**, Seong-Sook Park, Jin-Soo Kang, Kang-Ho Kim, Dong-Kwan Kim, Ui-Kyu Choi, Sun-Joon Kim. Inhibition of pyrite oxidation by surface coating: a long-term field study. *Environmental Geochemistry and Health*. 38, 1137-1146, 2016.
319. Min-Kyu Ji, Hyun-Shik Yun, Buyng-Su Hwang, Akhil N. Kabra, **Byong-Hun Jeon**, Jaeyoung Choi. Mixotrophic cultivation of *Nephroselmis* sp. using industrial wastewater for enhanced microalgal biomass production. *Ecological Engineering*. 95, 527-533, 2016.
320. Oh-Hun Kwon, Jong-Oh Kim, Dong-Wan Cho, Rahul Kumar, Seung Han Baek, Mayur B. Kurade, **Byong-Hun Jeon**. Adsorption of As(III), As(V) and Cu(II) on zirconium oxide immobilized alginate beads in aqueous phase. *Chemosphere*. 160, 126-133, 2016.
321. Tanushree Dutta, Ki-Hyun Kim, Minori Uchimiya, Eilhann E. Kwon, **Byong-Hun Jeon**, Akash Deep, Seong-Taek Yun. Global demand for rare earth resources and strategies for green mining. *Environmental Research*. 150, 182-190, 2016.
322. Vishal V. Chandanshive, Niraj R. Rane, Avinash R. Gholave, Swapnil M. Patil, **Byong-Hun Jeon**, Sanjay P. Govindwar. Efficient decolorization and detoxification of textile industry effluent by *Salvinia molesta* in lagoon treatment. *Environmental Research*. 150, 88-96, 2016.
323. Chae Ho Im, Young Eun Song, **Byong-Hun Jeon**, Jung Rae Kim. Biologically activated graphite fiber electrode for autotrophic acetate production from CO_2 in a bioelectrochemical system. *Carbon Letters*. 20, 76-80, 2016.
324. El-Sayed Salama, **Byong-Hun Jeon**, Mayur B. Kurade, Reda A.I. Abou-Shanab, Sanjay P. Govindwar, Sang-Hun Lee, Il-Seung Yang, Dae Sung Lee. Harvesting of freshwater microalgae *Scenedesmus obliquus* and *Chlorella vulgaris* using acid mine drainage as a cost effective flocculant for biofuel production. *Energy Conversion and Management*. 121, 105-112, 2016.
325. Jae-Hoon Hwang, Akhil N. Kabra, Min-Kyu Ji, Jaeyoung Choi, Marwa M. El-Dalatony, **Byong-Hun Jeon**. Enhancement of continuous fermentative bioethanol production using combined treatment of mixed microalgal biomass. *Algal Research*. 17, 14-20, 2016.
326. Kowsalya Vellingiri, Ki-Hyun Kim, Jong-Myoung Lim, Jin-Hong Lee, Chang-Jin Ma, **Byong-Hun Jeon**, Jong-Ryeul Sohn, Pawan Kumar, Chang-Hee Kang. Identification of nitrogen dioxide and ozone source regions for an urban area in Korea using back trajectory analysis. *Atmospheric Research*. 176-177, 212-221, 2016.
327. Sang-hun Lee, Rahul Kumar, **Byong-Hun Jeon**. Struvite precipitation under changing ionic conditions in synthetic wastewater: Experiment and modeling. *Journal of Colloid and Interface Science*. 474, 93-102, 2016.
328. Kyung-Won Jeon, Dae-Woon Jeong, Won-Jun Jang, Jae-Oh Shim, Hyun-Suk Na, Hak-Min Kim,

Yeol-Lim Lee, **Byong-Hun Jeon**, Seong-Heon Kim, Jong Wook Bae, Hyun-Seog Roh. Preferential CO oxidation over supported Pt catalysts. *Korean Journal of Chemical Engineering*. 33, 1781-1787, 2016.

329. Il-Seung Yang, El-Sayed Salama, Jong-Oh Kim, Sanjay P. Govindwar, Mayur B. Kurade, Minsun Lee, Hyun-Seog Roh, **Byong-Hun Jeon**. Cultivation and harvesting of microalgae in photobioreactor for biodiesel production and simultaneous nutrient removal. *Energy Conversion and Management*. 117, 54-62, 2016.
330. Jae-Oh Shim, Dae-Woon Jeong, Won-Jun Jang, Kyung-Won Jeon, **Byong-Hun Jeon**, Seong-Heon Kim, Hyun-Seog Roh, Jeong-Geol Na, Sang Sup Han, Chang Hyun Ko. Bio-diesel production from deoxygenation reaction over $Ce_{0.6}Zr_{0.4}O_2$ supported transition metal (Ni, Cu, Co, and Mo) catalysts. *Journal of Nanoscience and Nanotechnology*. 16, 4587-4592, 2016.
331. Dong-Wan Cho, **Byong-Hun Jeon**, Yoojin Jeong, In-Hyun Nam, Ui-Kyu Choi, Rahul Kumar, Hocheol Song. Synthesis of hydrous zirconium oxide-impregnated chitosan beads and their application for removal of fluoride and lead. *Applied Surface Science*. 372, 13-19, 2016.
332. Mayur B. Kurade, Tatoba R. Waghmode, Rahul V. Khandare, **Byong-Hun Jeon**, Sanjay P. Govindwar. Biodegradation and detoxification of textile dye Disperse red 54 by *Brevibacillus laterosporus* and determination of its metabolic fate. *Journal of Bioscience and Bioengineering*. 121, 442-449, 2016.
333. Jiu-Qiang Xiong, Mayur B. Kurade, Reda A.I. Abou-Shanab, Min-Kyu Ji, Jaeyoung Choi, Jong Oh Kim, **Byong-Hun Jeon**. Biodegradation of carbamazepine using freshwater microalgae *Chlamydomonas mexicana* and *Scenedesmus obliquus* and the determination of its metabolic fate. *Bioresource Technology*. 205, 183-190, 2016.
334. Changman Kim, Satish Kumar Ainala, You-Kwan Oh, **Byong-Hun Jeon**, Sunghoon Park, Jung Rae Kim. Metabolic flux change in *Klebsiella pneumoniae* L17 by anaerobic respiration in microbial fuel cell. *Biotechnology and Bioprocess Engineering*. 21, 250-260, 2016.
335. Satya Sundar Bhattacharya, Ki-Hyun Kim, Subhasish Das, Minori Uchimiya, **Byong-Hun Jeon**, Eilhann Kwon, Jan E. Szulejko. A review on the role of organic inputs in maintaining the soil carbon pool of the terrestrial ecosystem. *Journal of Environmental Management*. 167, 214-227, 2016.
336. Muthukannan Satheesh Kumar, Akhil N. Kabra, Booki Min, Marwa M. El-Dalatony, Jiuqiang Xiong, Nooruddin Thajuddin, Dae Sung Lee, **Byong-Hun Jeon**. Insecticides induced biochemical changes in freshwater microalga *Chlamydomonas mexicana*. *Environmental Science and Pollution Research*. 23, 1091-1099, 2016.
337. Marwa M. Eldalatony, Akhil N. Kabra, Jae-Hoon Hwang, Sanjay P. Govindwar, Ki-Hyun Kim, Hoo Kim, **Byong-Hun Jeon**. Pretreatment of microalgal biomass for enhanced recovery/extraction of reducing sugars and proteins. *Bioprocess and Biosystems Engineering*. 39, 95-103, 2016.
338. Sang-Hoon Lee, Jae-Hoon Hwang, Akhil N. Kabra, Reda A.I. Abou-Shanab, Mayur B. Kurade, Booki Min, **Byong-Hun Jeon**. Perchlorate reduction from a highly concentrated aqueous solution by bacterium *Rhodococcus* sp. YSPW03. *Environmental Science and Pollution Research*. 22, 18839-18848, 2015.
339. Nasrin Ghorbanzadeh, Amir Lakzian, Akram Halajnia, Akhil N. Kabra, Mayur B. Kurade, Dae S. Lee, **Byong-Hun Jeon**. Influence of clay minerals on sorption and bioreduction of arsenic under anoxic conditions. *Environmental Geochemistry and Health*. 37, 997-1005, 2015.
340. Ramesh Kakarla, Jung Rae Kim, **Byong-Hun Jeon**, Booki Min. Enhanced performance of an air-cathode microbial fuel cell with oxygen supply from an externally connected algal bioreactor. *Bioresource Technology*. 195, 210-216, 2015.
341. Yong-Tae Ahn, Dong-Wan Cho, Akhil N. Kabra, Min-Kyu Ji, Yeojoon Yoon, Jaewon Choi, Il-Hwan Choi, Joon-Wun Kang, Jung Rae Kim, **Byong-Hun Jeon**. Removal of iopromide and its intermediates from ozone-treated water using granular activated carbon. *Water, Air, & Soil Pollution*. 226:346, 2015.
342. Sang-Hee Jo, Ki-Hyun Kim, **Byong-Hun Jeon**, Min-Hee Lee, Yong-Hyun Kim, Bo-Won Kim, Sung-Back Cho, Ok-Hwa Hwang, Satya Sundar Bhattacharya. Odor characterization from barns and slurry treatment facilities at a commercial swine facility in South Korea. *Atmospheric Environment*. 119, 339-347, 2015.
343. Dong-Wan Cho, **Byong-Hun Jeon**, Chul-Min Chon, Franklin W. Schwartz, Yoojin Jeong, Hocheol

Song. Magnetic chitosan composite for adsorption of cationic and anionic dyes in aqueous solution. *Journal of Industrial and Engineering Chemistry*. 28, 60-66, 2015.

344. Dong-Wan Cho, Hocheol Song, Bokseong Kim, Franklin W. Schwartz, **Byong-Hun Jeon**. Reduction of nitrate in groundwater by Fe(o)/magnetite nanoparticles entrapped in Ca-alginate beads. *Water, Air, & Soil Pollution*, 226:206, 2015.
345. Jae-Oh Shim, Dae-Woon Jeong, Won-Jun Jang, Kyung-Won Jeon, Seong-Heon Kim, **Byong-Hun Jeon**, Hyun-Seog Roh, Jeong-Geol Na, You-Kwan Oh, Sang-Sup Han, Chang-Hyun Ko. Optimization of unsupported CoMo catalysts for decarboxylation of oleic acid. *Catalysis Communications*. 67, 16-20, 2015.
346. El-Sayed Salama, Jung Rae Kim, Min-Kyu Ji, Dong-Wan Cho, Reda A.I. Abou-Shanab, Akhil N. Kabra, **Byong-Hun Jeon**. Application of acid mine drainage for coagulation/flocculation of microalgal biomass. *Bioresource Technology*. 186, 232-237, 2015.
347. Woosik Jung, **Byong-Hun Jeon**, Dong-Wan Cho, Hyun-Seog Roh, Yunchul Cho, Sun-Joon Kim, Dae Sung Lee. Sorptive removal of heavy metals with nano-sized carbon immobilized alginate beads. *Journal of Industrial and Engineering Chemistry*. 26, 364-369, 2015.
348. Dong-Wan Cho, Hocheol Song, Franklin W. Schwartz, Bokseong Kim, **Byong-Hun Jeon**. The role of magnetite nanoparticles in the reduction of nitrate in groundwater by zero-valent iron. *Chemosphere*. 125, 41-49, 2015.
349. Moonis Ali Khan, B.H. Hameed, Jenny Lawler, Mahendra Kumar, **Byong-Hun Jeon**. Developments in activated functionalized carbons and their applications in water decontamination: a review. *Desalination and Water Treatment*. 54(2), 422-449, 2015.
350. Mayur B. Kurade, Tatoba R. Waghmode, Mital U. Jadhav, **Byong-Hun Jeon**, Sanjay P. Govindwar. Bacterial-yeast consortium as an effective biocatalyst for biodegradation of sulphonated azo dye Reactive Red 198. *RSC Advances*. 5, 23046-23056, 2015.
351. Jae-Hoon Hwang, Akhil N. Kabra, Jung-Rae Kim, **Byong-Hun Jeon**. Photoheterotrophic microalgal hydrogen production using acetate- and butyrate-rich wastewater effluent. *Energy*. 78, 887-894, 2014.
352. Min-Kyu Ji, Akhil N. Kabra, Jae-Won Choi, Jae-Hoon Hwang, Jung-Rae Kim, Reda A.I. About-Shanab, You-Kwan Oh, **Byong-Hun Jeon**. Biodegradation of bisphenol A by the freshwater microalgae *Chlamydomonas mexicana* and *Chlorella vulgaris*. *Ecological Engineering.* 73, 260-269, 2014.
353. M.S. Kumar, R. Praveenkumar, **Byong-Hun Jeon**, N. Thajuddin. Chlorpyrifos-induced changes in the antioxidants and fatty acid compositions of *Chroococcus turgidus* NTMS12. *Letters in Applied Microbiology*. 59(5), 535-541, 2014.
354. Akhil N. Kabra, Min-Kyu Ji, Jae-Won Choi, Jung-Rae Kim, Sanjay P. Govindwar, **Byong-Hun Jeon**. Toxicity of atrazine and its bioaccumulation and biodegradation in a green microalga, *Chlamydomonas mexicana*. *Environmental Science and Pollution Research*. 21(21), 12270-12278, 2014.
355. Muthukannan Satheesh Kumar, Jae-Hoon Hwang, Reda A.I. Abou-Shanab, Akhil N. Kabra, Min-Kyu Ji, **Byong-Hun Jeon.** Influence of CO_2 and light spectra on the enhancement of microalgal growth and lipid content. *Journal of Renewable and Sustainable Energy.* 6, 063107, 2014.
356. Moonis Ali Khan, Woosik Jung, Oh-Hun Kwon, Young-Mee Jung, Ki-Jung Paeng, Seung-Yeon Cho, **Byong-Hun Jeon**. Sorption studies of manganese and cobalt from aqueous phase onto alginate beads and nano-graphite encapsulated alginate beads. *Journal of Industrial and Engineering Chemistry*. 20(6), 4353-4362, 2014.
357. El-Sayed Salama, Akhil N. Kabra, Min-Kyu Ji, Jung-Rae Kim, Booki Min, **Byong-Hun Jeon**. Enhancement of microalgae growth and fatty acid content under the influence of phytohormones. *Bioresource Technology*. 172, 97-103, 2014.
358. Hyun-Shik Yun, Hong-Kyun Lee, Young-Tae Park, Min-Kyu Ji, Akhil N. Kabra, Chung Jeon, **Byong-Hun Jeon**, Jae-Young Choi. Isolation of novel microalgae from acid mine drainage and its potential application for biodiesel production. *Applied Biochemistry and Biotechnology*. 173(8), 2054-2064, 2014.
359. Reda A.I. Abou-Shanab, Marwa M. El-Dalatony, Mostafa M. EL-Sheekh, Min-Kyu Ji, El-Sayed Salama, Akhil N. Kabra, **Byong-Hun Jeon**. Cultivation of a new microalga, *Micractinium reisseri*, in

municipal wastewater for nutrient removal, biomass, lipid and fatty acid production. *Biotechnology and Bioprocess Engineering*. 19(3), 510-518, 2014.

360. Jae-Oh Shim, Dae-Woon Jeong, Won-Jun Jang, Kyung-Won Jeon, **Byong-Hun Jeon**, Seung-Yeon Cho, Hyun-Seog Roh, Jeong-Geol Na, Chang-Hyun Ko, You-Kwan Oh, Sang-Sub Han. Deoxygenation of oleic acid over $Ce_{(1-x)}Zr_{(x)}O_2$ catalysts in hydrogen environment. *Renewable Energy.* 65, 36-40, 2014.
361. Min-Kyu Ji, Akhil N. Kabra, El-Sayed Salama, Hyun-Seog Roh, Jung-Rae Kim, Dae-Sung Lee, **Byong-Hun Jeon**. Effect of mine wastewater on nutrient removal and lipid production by a green microalga *Micratinium reisseri* from concentrated municipal wastewater. *Bioresource Technology*. 157, 84-90, 2014.
362. Moonis Ali Khan, Eun-Do Gee, Jae-Young Choi, Mahendra Kumar, Woosik Jung, Thomas C. Timmes, Hyun-Chul Kim, **Byong-Hun Jeon**. Adsorption of cobalt onto graphite nanocarbon-impregnated alginate beads: Equilibrium, kinetics, and thermodynamics studies. *Chemical Engineering Communications*. 201(3), 403-418, 2014.
363. Jae-Hoon Hwang, Hyun-Chul Kim, Jeong-A Choi, R.A.I Abou-Shanab, Brian A. Dempsey, John M. Regan, Jung-Rae Kim, Ho-Cheol Song, In-Hyun Nam, Su-Nam Kim, Woo-Jung Lee, Dong-Hee Park, Yong-Je Kim, Jae-Young Choi, Min-Kyu Ji, Woosik Jung, **Byong-Hun Jeon**. Photoautotrophic hydrogen production by eukaryotic microalgae under aerobic conditions. *Nature Communications*. 5, 3234, 2014 (Introduced in Nature Middle East (ME), March 5th, 2014)
364. El-Sayed Salama, Reda A.I. Abou-Shanab, Jung-Rae Kim, Sang-Ho Lee, Seong-Heon Kim, Sang-Eun Oh, Hyun-Chul Kim, Hyun-Seog Roh, **Byong-Hun Jeon**. The effects of salinity on the growth and biochemical properties of *Chlamydomonas mexicana* GU732420 cultivated in municipal wastewater. *Environmental Technology*. 35(12), 1491-1498, 2014.
365. Ho-Cheol Song, **Byong-Hun Jeon**, Chul-Min Chon, Yong-Je Kim, In-Hyun Nam, Franklin W. Schwartz, Dong-Wan Cho. The effect of granular ferric hydroxide amendment on the reduction of nitrate in groundwater by zero-valent iron. *Chemosphere.* 93(11), 2767-2773, 2013.
366. Reda A.I. Abou-Shanab, Seong-Heon Kim, Min-Kyu Ji, Sang-Hun Lee, Hyun-Seog Roh, **Byong-Hun Jeon**. Municipal wastewater utilization for biomass and biodiesel production by *Scenedesmus obliquus* HM103382 and *Micractinium reisseri* JN169781. *Journal of Renewable and Sustainable Energy*. 5, 052006, 2013.
367. Min-Kyu Ji, Reda A.I. Abou-Shanab, Jae-Hoon Hwang, Thomas C. Timmes, Hyun-Chul Kim, You-Kwan Oh, **Byong-Hun Jeon**. Removal of nitrogen and phosphorus from piggery wastewater effluent using the green microalga *Scenedesmus obliquus. Journal of Environmental Engineering.* 139(9), 1198-1205, 2013.
368. Min-Kyu Ji, Reda A.I. Abou-Shanab, Seong-Heon Kim, El-Sayed Salama, Sang-Hun Lee, Akhil N. Kabra, Youn-Suk Lee, Sung-Woo Hong, **Byong-Hun Jeon**. Cultivation of microalgae species in tertiary municipal wastewater supplemented with CO_2 for nutrient removal and biomass production. *Ecological Engineering*. 58, 142-148, 2013.
369. El-Sayed Salama, Hyun-Chul Kim, Reda A.I. Abou-Shanab, Min-Kyu Ji, You-Kwan Oh, Seong-Heon Kim, **Byong-Hun Jeon**. Biomass, lipid content, and fatty acid composition of freshwater *Chlamydomonas mexicana* and *Scenedesmus obliquus* grown under salt stress. *Bioprocess and Biosystems Engineering*. 36(6), 827-833, 2013.
370. **Byong-Hun Jeon**, Jeong-A Choi, Hyun-Chul Kim, Jae-Hoon Hwang, Reda A.I. Abou-Shanab, Brian A. Dempsey, John M. Regan, Jung-Rae Kim. Ultrasonic disintegration of microalgal biomass and consequent improvement of bioaccessibility/bioavailability in microbial fermentation. *Biotechnology for Biofuels*, 6(1), 1-9, 2013.
371. Min-Kyu Ji, Hyun-Chul Kim, Veer Raghavulu Sapireddy, Hyun-Shik Yun, Reda A.I. Abou-Shanab, Jae-Young Choi, Won-Tae Lee, Thomas C. Timmes, Inamuddin, **Byong-Hun Jeon**. Simultaneous nutrient removal and lipid production from pretreated piggery wastewater by *Chlorella vulgaris* YSW-04. *Applied Microbiology and Biotechnology*, 97(6), 2701-2710, 2013.
372. Reda A.I. Abou-Shanab, Min-Kyu Ji, Hyun-Chul Kim, Ki-Jung Paeng, **Byong-Hun Jeon**. Microalgal species growing on piggery wastewater as a valuable candidate for nutrient removal and biodiesel production. *Journal of Environmental Management*. 115, 257-264, 2013.

373. Reda A.I. Abou-Shanab, Sapireddy V. Raghavulu, Nagah M.A. Hassanin, Seong-Heon Kim, Yong-Je Kim, Sang-Un Oh, You-Kwan Oh, **Byong-Hun Jeon.** Manipulating nutrient composition of microalgal growth media to improve biomass yield and lipid content of *Micractinium pusillum*. *African Journal of Biotechnology*. 11(96), 16270-16276, 2012.
374. Anup Gurung, Jung-Rae Kim, Sok-Hee Jung, **Byong-Hun Jeon**, Jae E. Yang, Sang-Eun Oh. Effects of substrate concentrations on performance of serially connected microbial fuel cells (MFCs) operated in a continuous mode. *Biotechnology Letters*. 34(10), 1833-1839, 2012.
375. Dong-Wan Cho, **Byong-Hun Jeon**, Chul-Min Chon, Yong-Je Kim, Franklin W. Schwartz, Eung-Seok Lee, Ho-Cheol Song. A novel chitosan/clay/magnetite composite for adsorption of Cu(II) and As(V), *Chemical Engineering Journal.* 200-202, 654-662, 2012.
376. Min-Kyu Ji, Eun-Do Gee, Hyun-Shik Yun, Woo-Ram Lee, Young-Tae Park, Moonis Ali Khan, **Byong-Hun Jeon**, Jae-Young Choi. Inhibition of sulfide mineral oxidation by surface coating agents: batch and field studies. *Journal of Hazardous Materials*. 229-230, 298-306, 2012.
377. Min-Kyu Ji, Won-Bae Park, Moonis Ali Khan, Reda A.I. Abou-Shanab, Yong-Je Kim, Yun-Chul Cho, Jae-Young Choi, Ho-Cheol Song, **Byong-Hun Jeon**. Nitrate and ammonium ions removal from groundwater by a hybrid system of zero-valent iron combined with adsorbents. *Journal of Environmental Monitoring*. 14, 1153-1158, 2012.
378. Jae-Young Choi, Jung-Seok Yang, Young-Tae Park, Jong-Oh Kim, Ki-Jun Kim, Yon-Sik Shim, Hyun-Ho Kwon, Moonis Ali Khan, Jae-Woo Park, Jeong-Gi Um, **Byong-Hun Jeon.** Comparison of As, Ni, Zn, Cd, and Pb removals using treatment agents. *Environmental Technology*. 33(4), 445-454, 2012.
379. Min-Kyu Ji, Yong-Tae Ahn, Moonis Ali Khan, Reda A.I. Abou-Shanab, Yun-Chul Cho, Jae-Young Choi, Yong-Je Kim, Ho-Cheol Song, **Byong-Hun Jeon**. Removal of nitrate and ammonium ions from livestock wastewater by hybrid systems composed of zero-valent iron and adsorbents. *Environmental Technology.* 32(16), 1851-1857, 2011.
380. Moonis Ali Khan, Yong-Tae Ahn, Mahendra Kumar, Won-Tae Lee, Booki Min, Gyoo-Bum Kim, Dong-Wan Cho, Won-Bae Park, **Byong-Hun Jeon**. Adsorption studies for the removal of nitrate using modified lignite granular activated carbon. *Separation Science and Technology*. 46(16), 2575-2584, 2011.
381. Dong-Wan Cho, Chul-Min Chon, Yong-Je Kim, **Byong-Hun Jeon**, Frank W. Schwartz, Eung-Seok Lee, Ho-Cheol Song. Adsorption of nitrate and Cr(VI) by cationic polymer-modified granular activated carbon. *Chemical Engineering Journal*. 175, 298-305, 2011.
382. Reda A.I. Abou-Shanab, Jae-Hoon Hwang, Yun-Chul Cho, Booki Min, **Byong-Hun Jeon**. Characterization of microalgal species isolated from fresh water bodies as a potential source for biodiesel production. *Applied Energy*. 88(10), 3300-3306, 2011.
383. Jae-Hoon Hwang, Jeong-A Choi, You-Kwan Oh, Reda A.I. Abou-Shanab, Ho-Cheol Song, Booki Min, Yun-Chul Cho, Jeong-Geol Na, Jakon Koo, **Byong-Hun Jeon**. Hydrogen production from sulfate- and ferrous-enriched wastewater. *International Journal of Hydrogen Energy*. 36(21), 13984-13990, 2011.
384. Jeong-A Choi, Jae-Hoon Hwang, Brian A. Dempsey, Reda A.I. Abou-Shanab, Booki Min, Hocheol Song, Dae-Sung Lee, Jung-Rae Kim, Yun-Chul Cho, Seung-Kwan Hong, **Byong-Hun Jeon**. Enhancement of fermentative bioenergy (ethanol/hydrogen) production using ultrasonication of *Scenedesmus obliquus* YSW15 cultivated in swine wastewater effluent. *Energy & Environmental Science*. 4, 3513-3520, 2011.
385. Yeo-Joon Yoon, Yun-Young Hwang, Min-Kyu Ji, **Byong-Hun Jeon**, Joon-Wun Kang. Ozone/membrane hybrid process for arsenic removal in iron-containing water. *Desalination and Water Treatment*. 31(1-3), 138-143, 2011.
386. Reda A.I. Abou-Shanab, Ibrahim A. Matter, Su-Nam Kim, You-Kwan Oh, Jae-Young Choi, **Byong-Hun Jeon**. Characterization and identification of lipid-producing microalgae species isolated from a freshwater lake. *Biomass & Bioenergy*. 35(7), 3079-3085, 2011.
387. Phung N. Manh, Moonis Ali Khan, **Byong-Hun Jeon**, Jae-Gon Kim, Giehyeon Lee. Stability of Fe- and Mn-(oxyhydr)oxides in common soil dispersion solutions. *Water, Air, & Soil Pollution*. 217(1-4), 677-687, 2011.
388. Moonis Ali Khan, Sang-Hoon Lee, Sanghyuk Kang, Ki-Jung Paeng, Giehyeon Lee, **Byong-Hun**

Jeon. Adsorption studies for the removal of methyl tert-butyl ether on various commercially available GACs from an aqueous medium. *Separation Science and Technology*. 46(7), 1121-1130, 2011.

389. Jae-Hoon Hwang, Jeong-A Choi, Reda A.I. Abou-Shanab, Booki Min, Ho-Cheol Song, Yong-Je Kim, Eung-Seok Lee, **Byong-Hun Jeon**. Feasibility of hydrogen production from ripened fruits by a combined two-stage (dark/dark) fermentation system. *Bioresource Technology.* 102(2), 1051-1058, 2011.
390. Sang-Hun Lee, Woosik Jung, **Byong-Hun Jeon**, Jae-Young Choi, Sun-Joon Kim. Abiotic subsurface behaviors of As(V) with Fe(II). *Environmental Geochemistry and Health.* 33(1-Supplement), 13-22, 2011.
391. Sang-Hun Lee, Sun-Joon Kim, **Byong-Hun Jeon**, Amit Bhatnagar, Sang-Woo Ji, Young-Wook Cheong, Giehyeon Lee. Activity of sulfate reducing bacteria in successive alkalinity producing system: Part I- Effect of Temperature. *Research Journal of Chemistry and Environment*. 14(4), 67-73, 2010.
392. Dong-Wan Cho, Chul-Min Chon, **Byong-Hun Jeon**, Yong-Je Kim, Moonis Ali Khan, Ho-Cheol Song. The role of clay minerals in the reduction of nitrate in groundwater by zero-valent iron. *Chemosphere*. 81(5), 611-616, 2010.
393. Sedky H.A. Hassan, Steven W. Van Ginkel, Sung-Min Kim, Sung-Hwan Yoon, Jin-Ho Joo, Beom-Soo Shin, **Byong-Hun Jeon**, Wookeun Bae, Sang-Eun Oh. Isolation and Characterization of *Acidithiobacillus caldus* from a sulfur-oxidizing bacterial biosensor and its role in detection of toxic chemicals. *Journal of Microbiological Methods*. 82(2), 151-155, 2010.
394. Moonis Ali Khan, Seong-wook Kim, Rifaqat Ali Khan Rao, R.A.I. Abou-Shanab, Amit Bhatnagar, Ho-Cheol Song, **Byong-Hun Jeon**. Adsorption studies of dichloromethane on some commercially available GACs: Effect of kinetics, thermodynamics and competitive ions. *Journal of Hazardous Materials.* 178(1-3), 963-972, 2010.
395. Eva Kumar, Amit Bhatnagar, Jeong-A Choi, Umesh Kumar, Booki Min, Yong-Je Kim, Ho-Cheol Song, Ki-Jung Paeng, Yong-Mee Jung, R.A.I. Abou-Shanab, **Byong-Hun Jeon**. Perchlorate removal from aqueous solutions by granular ferric hydroxide (GFH). *Chemical Engineering Journal.* 159(1-3), 84-90, 2010.
396. Rifaqat Ali Khan Rao, Moonis Ali Khan, **Byong-Hun Jeon**. Utilization of carbon derived from mustard oil cake (CMOC) for the removal of bivalent metal ions: Effect of anionic surfactant on the removal and recovery. *Journal of Hazardous Materials*. 173(1-3), 273-282, 2010.
397. Jae-Hoon Hwang, Jeong-A Choi, R.A.I. Abou-Shanab, Amit Bhatnagar, Booki Min, Ho-Cheol Song, Eva Kumar, Jae-Young Choi, Eung-Seok Lee, Yong-Je Kim, Suk-Kee Um, Dae-Sung Lee, **Byong-Hun Jeon**. Effect of pH and sulfate concentration on hydrogen production using anaerobic mixed microflora. *International Journal of Hydrogen Energy*. 34(24), 9702-9710, 2009.
398. Amit Bhatnagar, A.K. Minocha, Eva Kumar, Mika Sillanpää, **Byong-Hun Jeon**. Removal of phenolic pollutants from water utilizing *Mangifera indica* (Mango) seed waste and cement fixation. *Separation Science & Technology*. 44(13), 3150-3169, 2009.
399. Amit Bhatnagar, Yang-Hun Choi, Yeo-Joon Yoon, Yong-Soon Shin, **Byong-Hun Jeon**, Joon-Wun Kang. Bromate removal from water by granular ferric hydroxide (GFH). *Journal of Hazardous Materials*. 170(1), 134-140, 2009.
400. Jae-Hoon Hwang, Gi-Cheol Cha, Tae-Young Jeong, Dong-Jin Kim, Amit Bhatnagar, Booki Min, Hocheol Song, Jeong-A Choi, Jong-Hak Lee, Dae-Woon Jeong, Hyung-Keun Chung, Young-Tae Park, Jae-Young Choi, R.A.I. Abou-Shanab, Sang-Eun Oh, **Byong-Hun Jeon**. Effect of COD/SO_4^{2-} ratio and Fe(II) under the variable hydraulic retention time (HRT) on fermentative hydrogen production. *Water Research.* 43(14), 3525-3533, 2009.
401. Chongxuan Liu, John M. Zachara, Lirong Zhong, Steve M. Heald, Zheming Wang, **Byong-Hun Jeon**, James K. Fredrickson. Microbial reduction of intragrain U(VI) in contaminated sediment. *Environmental Science & Technology.* 43(13), 4928-4933, 2009.
402. Eva Kumar, Amit Bhatnagar, Min-Kyu Ji, Woosik Jung, Sang-Hun Lee, Sun-Joon Kim, Giehyeon Lee, Ho-Cheol Song, Jae-Young Choi, Jung-Seok Yang, **Byong-Hun Jeon**. Defluoridation from aqueous solutions by granular ferric hydroxide (GFH). *Water Research.* 43(2), 490-498, 2009.
403. Amit Bhatnagar, Eva Kumar, A. K. Minocha, **Byong–Hun Jeon**, Hocheol Song, Yong-Chan Seo.

Removal of anionic dyes from water using *Citrus limonum* (lemon) peel: Equilibrium studies and kinetic modeling. *Separation Science and Technology*. 44(2), 316-334, 2009.

404. Ho-Cheol Song, Elizabeth R. Carraway, Young-Hun Kim, Bill Batchelor, **Byong-Hun Jeon**, Jae-gon Kim. Amendment of hydroxyapatite in reduction of tetrachloroethylene by zero-valent zinc: Its rate enhancing effect and removal of Zn(II). *Chemosphere*. 73(9), 1420-1427, 2008.
405. Amit Bhatnagar, Ashwani K. Minocha, Deepak Pudasainee, Hyung-Keun Chung, Seong-Heon Kim, Hyoung-Soo Kim, Giehyeon Lee, Booki Min, **Byong-Hun Jeon**. Vanadium removal from water by waste metal sludge and cement immobilization. *Chemical Engineering Journal.* 144(2), 197-204, 2008.
406. Amit Bhatnagar, Min-Kyu Ji, Yang-Hun Choi, Woosik Jung, Sang-Hun Lee, Sun-Joon Kim, Giehyeon Lee, Hee-Jun Suk, Hyoung-Soo Kim, Booki Min, Seong-Heon Kim, **Byong-Hun Jeon**, Joon-Wun Kang. Removal of nitrate from water by adsorption onto zinc chloride treated activated carbon. *Separation Science & Technology*. 43(4), 886–907, 2008.
407. T. Peretyazhko, J.M. Zachara, S.M. Heald, **Byong-Hun Jeon**, R.K. Kukkadapu, C. Liu, D. Moore, C.T. Resch. Heterogeneous reduction of Tc(VII) by Fe(II) at the solid-water interface. *Geochimica et Cosmochimica Acta.* 72(6), 1521-1539, 2008.
408. Chongxuan Liu, **Byong-Hun Jeon**, John M. Zachara, Zheming Wang. Influence of calcium on microbial reduction of solid phase uranium(VI). *Biotechnology and Bioengineering.* 97(6), 1415-1422, 2007.
409. Amit Bhatnagar, A. K. Minocha, **Byong-Hun Jeon**, Ju-Myon Park, Giehyeon Lee. Adsorption of orange G dye on paper mill sludge: Equilibrium and kinetic modeling. *Fresenius Environmental Bulletin*. 16(9), 1049-1055, 2007.
410. Amit Bhatnagar, Ashwani K. Minocha, **Byong-Hun Jeon**, Ju-Myon Park. Adsorptive removal of cobalt from aqueous solutions by utilizing industrial waste and its cement fixation. *Separation Science & Technology*. 42(6), 1255-1266, 2007.
411. John M. Zachara, Steve M. Heald, **Byong-Hun Jeon**, Ravi K. Kukkadapu, Chongxuan Liu, James P. McKinley, Alice C. Dohnalkova, Dean A. Moore. Reduction of pertechnetate [Tc(VII)] by aqueous Fe(II) and the nature of solid phase redox products. *Geochimica et Cosmochimica Acta.* 71(9), 2137-2157, 2007.
412. Amit Bhatnagar, A.K. Minocha, Seong-Heon Kim, **Byong-Hun Jeon**. Removal of some metal ions from water using battery industry waste and its cement fixation. *Fresenius Environmental Bulletin*. 16(1), 99-103, 2007.
413. Chongxuan Liu, **Byong-Hun Jeon**, John M. Zachara, Zheming Wang, Alice Dohnalkova, James K. Fredrickson. Kinetics of microbial reduction of solid phase U(VI). *Environmental Science & Technology*. 40(20), 6290-6296, 2006.
414. **Byong-Hun Jeon**, Brian A. Dempsey, William D. Burgos, Mark O. Barnett, Eric E. Roden. Chemical reduction of U (VI) by Fe (II) at the solid-water interface using natural and synthetic Fe (III) oxides. *Environmental Science & Technology*. 39(15), 5642-5649, 2005.
415. **Byong-Hun Jeon**, Shelly D. Kelly, Kenneth M. Kemner, Mark O. Barnett, William D. Burgos, Brian A. Dempsey, Eric E. Roden. Microbial reduction of U(VI) at the solid-water interface. *Environmental Science & Technology*. 38(21), 5649-5655, 2004.
416. **Byong-Hun Jeon**, Brian A. Dempsey, William D. Burgos, Richard A. Royer. Low-temperature oxygen trap for maintaining strict anoxic conditions. *Journal of Environmental Engineering (ASCE)*. 130, 1407-1410, 2004.
417. **Byong-Hun Jeon**, Brian A. Dempsey, Willam D. Burgos, Richard A. Royer, Eric E. Roden. Modeling the sorption kinetics of divalent metal ions to hematite. *Water Research.* 38(10), 2499-2504, 2004.
418. Richard A. Royer, Brian A. Dempsey, **Byong-Hun Jeon**, William D. Burgos. Inhibition of biological reductive dissolution of hematite by ferrous iron. *Environmental Science & Technology*. 38(1), 187-193, 2004.
419. **Byong-Hun Jeon**, Brian A. Dempsey, William D. Burgos, Richard A. Royer. Sorption kinetics of Fe(II), Zn(II), Co(II), Ni(II), Cd(II), and Fe(II)/Me(II) onto hematite. *Water Research*. 37(17), 4135-4142, 2003
420. William D. Burgos, Yilin Fang, Richard A. Royer, Gour-Tsyh Yeh, James J. Stone, **Byong-Hun Jeon**,

Brian A. Dempsey. Reaction-based modeling of quinone-mediated bacterial Iron (III) reduction. *Geochimica et Cosmochimica Acta*. 67(15), 2735-2748, 2003.

421. **Byong-Hun Jeon**, Brian A. Dempsey, William D. Burgos. Kinetics and mechanisms for reactions of Fe (II) with Iron (III) oxides. *Environmental Science & Technology*. 37(15), 3309-3315, 2003(6).
422. Richard A. Royer, William D. Burgos, Angela S. Fisher, **Byong-Hun Jeon**, Richard F. Unz, Brian A. Dempsey. Enhancement of hematite bioreduction by natural organic matter. *Environmental Science & Technology*. 36(13), 2897-2904, 2002.
423. William D. Burgos, Richard A. Royer, Yilin Fang, Gour-Tsyh Yeh, Angerla S. Fisher, **Byong-Hun Jeon**, Brian A. Dempsey. Theoretical and Experimental Considerations Related to Reaction-Based Modeling: A Case Study Using Iron(III) Oxide Bioreduction. *Geomicrobiology*. 19(2), 253-287 ,2002.
424. **Byong-Hun Jeon**, Brian A. Dempsey, William D. Burgos, Richard A. Roye r. Reactions of ferrous iron with hematite. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*. 191(1-2), 41-55, 2001.
425. B.A. Dempsey, H.C. Roscoe, R. Ames, R. Hedin, **Byong-Hun Jeon**. Ferrous oxidation chemistry in passive abiotic systems for the treatment of mine drainage. *Geochemistry: Exploration, Environment, Analysis*. 1, 81-88, 2001.
426. B.A. Dempsey, **Byong-Hun Jeon**. Characteristics of sludge produced from passive treatment of mine drainage. *Geochemistry: Exploration, Environment, Analysis*. 1, 89-94, 2001.

B. Published (Non-SCI Journal)

1. Reda Abou-Shanab, **Byong-Hun Jeon**, Hocheol Song, Yong-je Kim, Jae-Hoon Hwang, Algae-Biofuel: Potential use as sustainable alternative green energy. *The Online Journal on Power and Energy Engineering (OJPEE)*, 1 (1), 4-6, 2010.

C. Domestic (Total 34)

1. Junyeong An, Byung Kwon Lee, Byong-Hun Jeon, Min-Kyu Ji. A management plan of wastewater sludge to reduce the exposure of microplastics to the ecosystem. Clean Technology, vol. 27, No. 1, 1-8, 2021.
2. Won Beom Kim, Taewoong Ahn, Ki-Jung Paeng, Da-Seul Lee, **Byong-Hun Jeon**, Do Hyeon Kim, Jaejin Choi. Study on the cause of paraffin deposition using comprehensive two-dimensional gas chromatography. 한국자원공학회지, 56, 613-621, 2019.
3. Heejun Suk, Bongho Son, Sungmin Park, **Byong-Hun Jeon**. Development of numerical model for simulating remediation efficiency using surfactant in a NAPL contaminated area. *Clean Technology*. 25, 202-218, 2019.
4. Il-Seung Yang, Min-Kyu Ji, **Byong-Hun Jeon**, A Review on efficient operation technology of compost depot, *Clean Technology*, 23(4), 345-356, 2017.
5. Himanshu Gupta, Rahul Kumar, Hyun-Sung Park, **Byong-Hun Jeon**, Photocatalytic efficiency of iron oxide nanoparticles for the degradation of priority pollutant anthracene. *Geosystem Engineering*, 20, 21-27, 2017.
6. Rahul Kumar, Shouvik Saha, Sarita Dhaka, Mayur B Kurade, Chan-Ung Kang, Seung Han Back, **Byong-Hun Jeon**, Remediation of cyanide-contaminated environments through microbes and plants: a review of current knowledge and future perspectives. *Geosystem Engineering*, 20, 28-40, 2017.
7. Nasrin Ghorbanzadeh, Woosik Jung, Akram Halajnia, Amir Lakzian, Akhil N. Kabra, **Byong-Hun Jeon**, Removal of arsenate and arsenite from aqueous solution by adsorption on clay minerals, *Geosystem Engineering*, 18, 302-311, 2015(7p).
8. Jung-Rae Kim, Young-Eun Song, Ganapathiraman Munussami, Chang-Man Kim, **Byong-Hun Jeon**, Recent applications of bioelectrochemical system for useful resource recovery: retrieval of nutrient and metal from wastewater, *Geosystem Engineering*, 18, 173-180, 2015(4p).
9. Nasrin Ghorbanzadeh, Amir Lakzian, Akram Halajnia, Muthukannan Satheesh Kumar, **Byong-Hun Jeon**, Removal of chromium [Cr(VI)] from contaminated solutions by using biogenic ferrous iron in

bioreduced minerals, *Geosystem Engineering,* 17(2), 95-103, 2014.

10. Sang-Hoon Lee, Jae-Hoon Hwang, Akhil N. Kabra, Dae-Sung Lee, **Byong-Hun Jeon**, Reduction of highly concentrated perchlorate in aqueous medium by newly isolated bacterial strains *Rhodococcus sp.* YSPW01 and YSPW02*, J. of KSEE*, 36(5), 352-358, 2014.
11. Hocheol Song, **Byong-Hun Jeon**, Dong-Wan Cho, Nitrate reduction by Fe(0)/iron oxide mineral systems: a comparative study using different iron oxides, *Journal of Soil and Groundwater Environment*, 19(1), 63-69, 2014.
12. Minsun Lee, Kun-Hee Hong, Sangwon Hwang, Sunyup Kim, Sangwon Bae, **Byong-Hun Jeon**, Evaluation of *Ourococcus* multisporus YSW008 for advanced wastewater treatment with simultaneous biofuel feedstock production, *Journal of the Korean Society of Mineral and Energy Resources Engineers*, 50(5), 651-659, 2013.
13. Dong-Wan Cho, Woosik Jung, Abinashi Sigdel, Oh-Hun Kwon, Sang-Hun Lee, Akhil N. Kabra **Byong-Hun Jeon**, Adsorption of Pb(II) and Ni(II) from aqueous solution by nanosized graphite carbon-impregnated calcium alginate bead, *Geosystem Engineering*, 16(3), 200-208, 2013.
14. Jae-Hoon Hwang, Dong-Wan Cho, Chung-Hwan Kim, **Byong-Hun Jeon**, The effect of fixed media and recycling ratio on nutrients removal in a pilot-scale wastewater treatment plant, *J. of KSEE*, 35(6), 449-455, 2013.
15. Moonis Ali Khan, Sang-Hoon Lee, **Byong-Hun Jeon**, Adsorption of DCM and MTBE from aqueous phase on granular activated carbons: a comparative study, *Geosystem Engineering*, 13(3), 105-112, 2012.
16. Dong-Wan Cho, R.A.I. Abou-Shnab, Yong-Je Kim, **Byong-Hun Jeon**, Ho-Cheol Song, Enhanced reduction of nitrate in groundwater by zero-valent iron with activated red mud, *Geosystem Engineering*, 14(2), 65-70, 2012.
17. Brian A. Dempsey, Jon Dietz, Woosik Jung, **Byong-Hun Jeon**, Enhanced iron oxidation to improve AMD treatment, *Geosystem Engineering,* 15(3), 203-209, 2012.
18. Yong-Tae Ahn, Hyun-Chul Kim, Dong-Wan Cho, Reda A.I. Abou-Shanab, **Byong-Hun Jeon**, Removal of nitrate from groundwater using ZVI treatment system combined with continuous CO_2 gas bubbling, *Geosystem Engineering,* 15(1), 60-65, 2012.
19. Sekun Chang, Sun-Joon Kim, Sang-Hun Lee, **Byong-Hun Jeon**, Jae-Young Choi, Redox reaction of Fe(0) with As(V) sorbed onto goethite-coated sand under the anoxic conditions, *Geosystem Engineering,* 15(1), 33-43, 2012.
20. Abinashi Sigdel, Raghunath Jha, Dhruba Bhatta, Reda A.I. Abou-Shanab, Veer Raghavulu Sapireddy, **Byong-Hun Jeon**, Applicability of TOPMODEL in the catchments of Nepal: Bagmati River Basin, *Geosystem Engineering,* 14(4), 180-190, 2011.
21. Hyun-Shik Yun, Eun-Do Gee, Min-Kyu Ji, Woo-Ram Lee, Jung-Seok Yang, Young-Tae Park, Hyun-Ho Kwon, Won-Hyun Ji, Ki-joon Kim, **Byong-Hun Jeon**, Jae-Young Choi, Developing for Reduction Technology of AMD through Coating on the Surface of Pyrite Using Minerals, *Korean Geo-Environmental Society*, 12(2), 15-22, 2011.
22. Sumin Park, **Byong-Hun Jeon**, Hyuk Jeong, Ki-Jung Paeng, The Adsorption characterisctics of mixed resins for perchlorate ion, *Analytical Science & Technology*, 23(5), 429-436, 2010.
23. Dong-Wan Cho, **Byong-Hun Jeon**, Yong-Je Kim, Hocheol Song, The effect of fumed silica on nitrate reduction by zero-valent iron, *J. of KSEE,* 21(6), 599-608, 2010.
24. Moonis Ali Khan, Sang-Hoon Lee, Rajeev Kumar, **Byong-Hun Jeon**, Adsorptive removal of volatile organic contaminants from aqueous medium by granular activated carbons, *Geosystem Engineering*, 13(1), 25-34, 2010.
25. Yoon-Whi Kim, Hae-Ri Kim, Se-Jin Song, Kyung-Eun Lee, Jae-Hoon Hwang, **Byong-Hun Jeon**, The biomass of solution for Environment/Energy: Microalgae, *WIES Journal of Junior Science*, 3(1), 217-221, 2010.
26. Min-Kyu Ji, Hyun-Sik Yoon, Eung-Do Ji, Woo-Ram Lee, Young-Tae Park, Jung-Seok Yang, **Byong-Hun Jeon**, Yon-Sik Shim, Man-Hee Kang, Jae-Young Choi, Development of control technology for acid mine drainage by coating on the surface of pyrite using chemicals, *Journal of Korean Society of Soil and Groundwater Environment*, 15(4), 46-52, 2010.
27. Jae-Hoon Hwang, Jeong-A Choi, R.A.I. Abou-shanab, **Byong-Hun Jeon**, Feasibility of batch

anaerobic bio-hydrogen production from different organic wastes, *New and Renewable Energy*, 5(4), 80-86, 2009.

28. Woosik Jung, Sang-Hun Lee, Hyung-Keun Chung, Sun-Joon Kim, Jae-Young Choi, **Byong-Hun Jeon**, Reactions of As(V) with Fe(II) under the Anoxic Conditions, *the Korea Society of Economic and Environmental Geology*, 42(5), 487-494, 2009.
29. Jae-Hoon Hwang, Jeong-A Choi, Jong-Hak Lee, Tae-Young Jeong, Gi-Cheol Cha, Hocheol Song, Bo-Young Yong, Dong-Jin Kim, **Byong-Hun Jeon**, Fermentative hydrogen production under various SO_4^{2-} concentration using anaerobic mixed microflora, *J. of KSEE*, 31(6), 434-441, 2009.
30. Hocheol Song, Doo-Sup Song, Dong-Wan Cho, Sung-Won Park, Sang-Hun Choi, **Byong-Hun Je on**, Jang-Ho Lee, Joon-Hong Park, Stabilization of heavy metals using Ca-citrate-phosphate solution: effect of soil microorganisms, *J. of KSEE*, 31(4), 241-248, 2009.
31. Minkyu Ji, Yang-Hun Choi, Woosik Jung, Sang-Hun Lee, Sun-Joon Kim, Booki Min, Amit Bhatnagar, Seong-Heon Kim, Hyung-Keun Chung, **Byong-Hun Jeon**, Joon-Wun Kang, Adsorption of Nitrate-N onto $ZnCl_2$-treated Granular Activated Carbon, *The Korean Society for Geosystem Engineering*, 44(6), 492-499, 2007.
32. Minkyu Ji, Woosik Jung, Amit Bhatnagar, **Byong-Hun Jeon**, Modeling of the nitrate adsorption kinetics onto $ZnCl_2$ treated granular activated carbon, *Journal of Korean Society of Soil and Groundwater Environment,* 13(3), 21-26, 2008.
33. Woosik Jung, Minkyu Ji, Sang-Hun Lee, Eva Kumar, Amit Bhatnagar, Sun-Joon Kim, **Byong-Hun Jeon**, Adsorption of fluoride onto granular ferric hydroxide, *The Korean Society for Geosystem Engineering,* 45(5), 441-447, 2008.
34. **Byong-Hun Jeon**, Sun-Joon Kim, Sang-Hun Lee, Woosik Jung, 토양 및 지하수의 비소오염과 제거 기술 동향, *Mine Reclamation Corporation,* 2(1), 3-13, 2008.

D. Book chapters

1. Ravindran B., Kurade M.B., Kabra A.N., **Byong-Hun Jeon**, Gupta, S.K. Recent Advances and Future Prospects of Microalgal Lipid Biotechnology. In Book, Algal Biofuels: Recent Advances and Future Prospects. Eds, Gupta, S.K., Malik, A. and Bux, F. (eds), Springer International Publishing, Cham., pp. 1-37, 2017.

2. Nibedita Sarkar, **Byong-Hun Jeon**, Pradip Kumar Chatterjee, Amit Ganguly. Food Waste, a Good Option for Biodiesel Production. In Book, Bioresource Utilization and Bioprocess. Eds, sadhan Kumar Ghosh, Ramakrishna Sen, H. N. Chanakya, Agamuthu Pariatamby, Springer Nature Singapore Pte Ltd, pp. 267-273, 2020.

3. Neha Agarwal, Vijendra Singh Solanki, Amel Gacem, Mohd Abul Hasan, Brijesh Pare, Amrita Srivastava, Anupama Singh, Virendra Kumar Yadav, Krishna, Kumar Yadav, Chaigoo Lee, Wonjae Lee, Sumate Chaiprapat, **Byong-Hun Jeon**. Bacterial Laccases as Biocatalysts for Environmental Toxic Pollutants. In Encylopedia, Microbiology, 2022.

E. Submitted (Total 67)

1. Ghulam Mustafa, Muhammad Tariq Zahid, Mayur B. Kurade, Swapnil M. Patil, Farah Rauf Shakoori, Zeeshan Shafiq, Sidra Ihsan, Yongtae Ahn, Azmat Ali Khan, Amel Gacem, **Byong-Hun Jeon**, Molecular characterization of azoreductase and its potential for the decolorization of Remazol Red R and Acid Blue 29, *Bioresource Technology*, in submission, 2023.
2. Akshi E Morris, Advait Patil, Shraddha Sadekar, Ankita Choudhury, Ashok D Chougale, Mayur Kurade, **Byong-Hun Jeon**, Rahul Tanpure, Sachin Agawane, Vishal Dawkar, Biodegradation of Malachite green dye by newly isolated Bacillus species AAAV, in submission, 2023.
3. Monika Sharma, Nandini Thakur, **Byong-Hun Jeon**, Xiangkai Li, El-Sayed Salama, Advances in the biomass valorization in bioelectrochemical systems: A sustainable approach for microbial-aided electricity and hydrogen production, *Chemical Engineering Journal*, in submission, 2023.

4. Jari S. Algethami, Krishna Kumar Yadav, Amel Gacem, Ismat H. Ali, Shahabaldin Rezania, Hamid Rashidi Nodeh, Wan Nazihah Wan Ibrahm, Munirah Sulaiman Othman Alhar, Amine Mezni, **Byong-Hun Jeon**, Sumate Chaiprapat, Magnetic sporopollenin supported magnesium nanoparticles for removal of tetracycline as an emerging contaminant from water, *Environmental Science and Pollution Research*, in submission, 2023.
5. Tang Haibo, Zhou Tuoyu, Jin Weilin, Zong Simin, Mamtimin Tursunay, Salama El-Sayed, **Jeon Byong-Hun**, Liu Pu, Han Huawen, Li Xiangkai, Tumor-targeting synthetic probiotic Escherichia coli Nissle 1917 inhibits colorectal tumorigenesis and modulates gut microbiota homeostasis in an AOM/DSS mouse model, *Bioengineering & Translational Medicine*, in submission, 2023.
6. Meriem Elkolli, Hayet Elkolli, Yacine Benguerba, **Byong-Hun Jeon**, First report on biological activities, molecular docking, and study of the toxicity of two oleoresins and their main constituents, *Journal of Phamaceutical Analysis*, in submission, 2023.
7. **Byong-Hun Jeon**, Gut microbiome profiling of neonates using Nanopore MinION and Illumina MiSeq sequencing, *npj Biofilms and Microbiomes*, in submission, 2022.
8. Muthu Prabhu Subbaiah, Pyo Seong Hyeon, Pandi Kalimuthu, Jung Jinho, Meenakshi Sankaran, Amin Mohammed, Yadav Krishna, Park Ho Bum, **Jeon, Byong-Hun**, elf-tunable and highly exfoliated oxygen-rich flowery MoS2 sheets for superior arsenic removal: Investigations on substitution, stability, and sustainability (3S) for maxi-sorption, *ACS Applied Materials & Interfaces*, in submission, 2022.
9. Pranjal Pranjal, Soujanya Ghosh, A P Habeeb Rahman, Sankha Chakrabortty, Ramesh Kumar, Amrita Mishra, **Byong-Hun Jeon**, Suraj K Tripathy, Cecilia Stålsby Lundborg, Sono-Fenton reaction can trigger long term bactericidal effect against Acinetobacter baumannii due to residual stress induced by reactive oxygen species, *Chemical Engineering Journal*, in submission, 2022
10. Ramesh Kumar, Aradhana Basu, Bhaskar Bishayee, Rishya Prava Chatterjee, Meeraambika Behera, Wei Lun Ang, Parimal Pal, Maulin Shah, Suraj K Tripathy, Sankha Chakrabortty, Jayato Nayak, **Byong-Hun Jeon**, Management of tannery waste effluents towards the reclamation of clean water using an integrated membrane system: A state-of-the-art review, *Environmental Research*, in submission, 2022
11. Tarek A. Yousef, Abdulrahman G. Alhamzani, Mortaga M. Abou-Krisha, M. S. Raghu, K. Yogesh Kumar, **Byong-Hun Jeon**, Prashanth M K, Design, synthesis, anticancer activity and docking studies of novel quinazoline-based thiazole derivatives as reversible EGFR kinase inhibitors, *Bioorganic & Medicinal Chemistry Letters*, in submission, 2022.
12. Ramesh Kumar, Chengjia Liu, Geon-Soo Ha, Sankha Chakrabortty, Suraj K. Tripathy, Young-Kwon Park, Moonis Ali Khan, Krishna Kumar Yadav, Marina M.S. Cabral-Pinto, **Byong-Hun Jeon**, A novel membrane-integrated sustainable technology for downstream recovery of molybdenum from industrial wastewater, *Chemical Engineering Journal*, in submission, 2022.
13. Arifa Khan, Jay Gupta, Nilesh S. Wagh, Jaya Lakkakul, Arpita Roy, **Byong-Hun Jeon**, Shiv Prasad Krishna Kumar Yadav, Review on genetic engineering for enhancement of biofuels: A sustainable approach, *Journal of Bioscience and Bioengineering*, in submission, 2022.
14. Noureddine Elboughdiri, Tarek Lemaoui, Karima Rouibah, Hana Ferkous, Amel Delimi, Abir Boublia, Ahmad S. Darwish, Taghreed Alsufyani, Akil Ahmad, Manawwer Alam, **Byong Hun Jeon**, Yacine Benguerba, Krishna Kumar Yadav, Removal of copper (II) from aqueous solution using biopolymer-based materials: Theoretical and statistical physics investigation for wastewater treatment, *Computers & Industrial Engineering*, in submission, 2022.
15. Abdulrahman G. Alhamzani, Tarek A. Yousef, Mortaga M Abou-Krisha, M. S. Raghu, K. Yogesh Kumar, **Byong-Hun Jeon**, Prashanth M K, Synthesis, antitubercular profile and molecular docking studies of quinazolinone-based pyridine derivatives against drug-resistant tuberculosis, *RSC Medicinal Chemistry,* in submission, 2022.
16. Noureddine Elboughdiri, Tarek Lemaoui, Karima Rouibah, Hana Ferkous, Amel Delimi, Abir Boublia, Ahmad S. Darwish, Taghreed Alsufyani, Akil Ahmad, Krishna Kumar Yadav, Chaigoo Lee, Wonjae Lee, Manawwer Alam, **Byong-Hun Jeon**, Yacine BENGUERBA, Natural agricultural waste materials for adsorptive removal of copper (II) from aqueous solution: Experimental, physical statistics and molecular modeling study, *polymers*, in submission, 2022
17. Saheem Ahmad, Haresh S. Kalasariya, Krishna Kumar Yadav, Amel Gacem, Taghreed Alsufyani,

Virendra Kumar Yadav, Hany S. Hussein, Akil Ahmad, Neeraj Kumar Shukla, Saiful Islam, Chaigoo Lee, Jaejin Choi, **Byong-Hun Jeon**, Proximate composition and mineral content analysis of six marine macroalgal species from the intertidal shallow water, *Plants*, in submission, 2022

18. Krishna Kumar Yadav, Shiv Prasad, Sandeep Kumar, Priti Pandita, Neha Gupta, Mohammed Amin, Manawwer Alam, Akanksha Yadav, **Byong-Hun Jeon**, Marina Cabral-Pinto. Biofuel production: Sustainable development scenario, environment, and climate change perspectives. *Environmental Pollution*, in submission, 2022.
19. Sankha Chakrabortty, Ramesh Kumar, Jayato Nayak, **Byong-Hun Jeon**, Shashi Kant Dargar, Michał Jasiński, Green synthesis of MeOH derivatives through in situ catalytic transformations of captured CO2 in a membrane integrated photo-microreactor system: a state-of-art review for carbon capture and utilization. *Renewable and Sustainable Energy Reviews*, in submission, 2022.
20. Shouvik Saha, Amita Mondal, Mayur B. Kurade, Yongtae Ahn, Priyabrata Banerjee, Hyun-Kyung Park, Ashok Pandey, **Byong-Hun Jeon**, Assessment of technological advancements in various approaches for biomass-derived hydrogen production, *Renewable and Sustainable Energy Reviews*, in submission, 2022.
21. Nikita Yadav, Hyun-Jo Ahn, Niraj Rane, Mayur B. Kurade, Xiaofang Li, Young-Kwon Park, Moonis Ali Khan, Woo Jin Chung, Soon Woong Chang, **Byong-Hun Jeon**, Comprehensive study on complete removal of bisphenol-S from secondary wastewater effluent with Iris pseudacorus. *Environmental Pollution*, in submission, 2022.
22. Gokul Raghavendra Srinivasan, Ranjitha Jambulingam, Amel Gacem, Akil, Ahmad, Javed Khan Bhutto, Krishna Kumar Yadav, Amine Mezni, Omar Khulaif R, Alharbi, Saiful Islam, Yongtae Ahn, **Byong-Hun Jeon**, Effect of preheated fuel on compression ignition engine characteristics from utilization of waste animal fat-oil biodiesel. *Polymers*, in submission, 2022.
23. Yacine Benguerba, **Byong-Hun Jeon**, New insights on the adsorption of CI-Reactive Red 141 dye using activated carbon prepared from the ZnCl2-treated waste cotton fibers: Statistical physics, DFT, COSMO-RS, and AIM studies. *Journal of Molecular Liquids*, in submission, 2022
24. Halim KHENCHOUCHE, Xiaohui Wang, Manawwer Alam, Sungmin Park, **Byong-Hun Jeon**, Yacine BENGUERBA, Karim Houali. Antibodies to the Epstein - Barr virus protein LMP-1 suppress the growth of Nasopharyngeal or Gastric tumors in a mouse model. *International Journal of Molecular Sciences*, in submission, 2022.
25. Yogesh S Chaudhari, Pankaj Kumar, Sunil Soni, Amel Gacem, Vinay Kumar, Snigdha Singh, Virendra Kumar Yadav, Vinars Dawane, Satish Piplode, **Byong Hun Jeon**, Krishna Kumar Yadav. An inclusive outlook on the fate and persistence of pesticides in the environment and integrated eco-technologies for their degradation, *Toxicology and Applied Pharmacology*, in submission, 2022.
26. Kyoung-Jin Kim, Kyung-won Jeon, Ga-Ram Hong, Byong-Hun Jeon, Jong Wook Bae, Won-Jun Jang, Yeol-Lim Lee, Hyun-Seog Roh. A study on sulfur-tolerant Pt/Ce-ZrO2 catalysts for high temperature shift using waste derived synthesis gas, Jounral of Industrial and Engineering Chemistry, in submission, 2022.
27. Sankaran Meenakshi, **Byong-Hun Jeon**, Chelate-facilitated N- and S-rich tetragonal zirconia on chitosan-derived carbon as excellent adsorbents for arsenite depollution and their mechanistic insights into adsorption, *Chemical Engineering Journal*, in submission, 2022.
28. Madihalli S Raghu, Abdullah Alsulamia, Yogesh Kumar k, Prashanth M K, Shanavaz Hamzada, Parashuram L, Pradeep Kumar C B, **Byong-Hun Jeon**, Deep eutectic solvent based facile synthesis of FeVO4/RGO nanocomposite: An amperomeric probe for sensitive detection of methyl parathion in green beans and its solar light induced degradation, *Chemosphere*, in submission, 2022.
29. Jayato Nayak, Ramesh Kumar, Wei Lun Ang, Meeraambika Behera, Aradhya Chatterjee, Bhaskar Bishayee, Rishya Prava Chatterjee, Suraj K Tripathy, Shirsendu Banerjee, Parimal Pal, SANKHA CHAKRABORTTY, **Byong-Hun Jeon**, Management of tannery waste effluents towards reclamation of clean water using a membrane integrated system: a state-of-art review. *Environmental Science and Pollution Research*, in submission, 2022.
30. followed by downstream enrichment using direct contact membrane distillation. *Energy Conversion and Management*, in submission, 2022.

31. Yacine Benguerba, Chérifa BOULECHFAR, Hana FERKOUS, Amel DELIMI, Krishna Kumar YADAV, **Byong-Hun Jeon**, Synthesis, Electrochemical, and Quantum Chemical Studies of some metal complexes: Mn(II), Co(II) and Zn(II)-furaldehyde semicarbazone. *Journal of Molecular Liquids*, in submission, 2022.
32. Nima Mokhtari, Ali Reza Solaimany Nazar, Mehrdad Farhadian, Parisa Eskandari, **Byong-Hun Jeon**, Silver deposition on titanium oxide thin glass films for efficient visible-light-induced photocatalytic removal of diphenhydramine and venlafaxine. *International Journal of Environmental Science and Technology*, in submission, 2022.
33. Qualid Alioui, Widad Sobhi, Matteo Tiecco, Enas Muen Alnashef, Ayoub Attoui, Amel Boudechicha, Krishna Kumar Yadav, Ahmed M. Fallatah, Abdulmohsen Khalaf Dhahi Alsukaibia, Saiful Islam, **Byong-Hun Jeon**, Tacine Benguerba. Curcumin solubilization in Natural Deep Eutectic Solvents: experimental and COSMO-RS methods. *Industrial & Engineering Chemistry Research*, in submission, 2022.
34. Young-Kwon Park, **Byong-Hun Jeon**, Enhancement of BTEX in the ex-situ catalytic upgrading of biomass pyrolysis vapors over a metal-loaded HZSM-5 catalyst under a methane environment, *Chemical Engineering Journal*, in submission, 2022.
35. Virendra Yadav, Parth Malik, Vineet Tirth, Samreen Heena Khan, Krishna Kumar Yadav, Saiful Islam, Nisha Choudhary, Gajendra Kumar Inwati, Amir arabi, Do-Hyeon Kim, **Byong-Hun Jeon**, Health and Environmental Risks of Incense Smokes: Mechanistic In-sights and Cumulative Evidences, *Journal of Inflammation Research*, in submission, 2022.
36. Gouranga Biswas, Anuradha Sengupta, Faisal M. Alfaisal, Raied S. Alharbi, Shamshad Alam, **Byong-Hun Jeon**. Modeling the health of the rabi crop using time series satellite data of Eastern India. *Ecological Informatics*, in submission, 2022.
37. Boublia Abir, Lebouachera Seif El Islam, Haddaoui Necerddine, Guezzout Zahir, Ghriga Mohammed Abdelfetah, Hasanzadeh Mahdi, Drouiche Nadjib, Yadav Krishna, **Byong-Hun Jeon**, Benguerba Yacine. Recent Advances in Polymer Engineering: Modeling and Optimization Through Response Surface Methodology Approach. *Journal of the American Chemical Society*, in submission, 2022.
38. Yeol-Lim Lee, Kyoung-Jin Kim, Ga-Ram Hong, Seon-Yong Ahn, Beon-Jun Kim, HO-Ryong, Park, **Byong-Hun Jeon**, Jong-Wook Bae, Hyun-Seog Roh. Unraveling the relationship between oxygen storage capacity and sulfur tolerance in the water-gas shift reaction for waste-to-energy. *ChemSusChem*, in submission, 2022.
39. Kannapu Hari Prasad Reddy, Gwang Hoon Rhee, Jungho Jae, Moonis Ali Khan, Byong-Hun Jeon, Young-Kwon Park. An efficient catalytic conversion of cellulose to 5-hydroxymethylfuran over mesoporous sulfated TiO2-ZrO2-SO4. *Fuel*, in submission, 2022.
40. **Byong-Hun Jeon**, Young-Kwon Park. Valorization of low sulfonated Kraft Lignin via catalytic fast pyrolysis with methane cofeeding. *Bioresource Tehnology*, in submission, 2022(1s).
41. KienTiek Wong, ChoeEarn Choong, In Wook Nah, Sang-Hyoun Kim, **Byong-Hun Jeon**, Eun-Ha Choi, Yeomin Yoon, Min Jang. Interfacial Schottky junction modulated by photo-piezoelectric band bending to govern charge carrier migration for selective H2O2 generation. *Applied Catalysis B: Environmental*, in submission, 2022.
42. Aydin Hassani, Parisa Yekan Motlagh, Alireza Khataee, **Byong-Hun Jeon**. Recent advances of hybrids layered double hydroxides as catalysts for the removal of synthetic dyes from wastewater. *Current Developments in Bioengineering and Biotechnology*, in submission, 2022.
43. Niraj Rane, Subbaiah Muthu Prabhu, Xiaofang Li, Sachin Otari, Savita Girawale, Ashwini Palake, Kisan M. Kodam, Krishna Kumar Yadav, **Byong-Hun Jeon**. Magnetic Adsorbents; Toxic ions/chemicals removal; Mechanistic insights; Lab to industry scale; Wastewater treatment. *Progress in Materials Science*, in submission, 2021.
44. Amel Delimi, Hana Ferkous, Souad Djellali, Kahlouche Abdessalem, Chérifa Boulechfar, Amina Belakhdar, Krishna Kumar Yadav, **Byong-Hun Jeon**, Yacine Benguerba. A theoretical and experimental investigation of the influence of the silicon-based coatings pre-treatment generated using plasma-enhanced chemical vapor deposition. *Surface & Coatings Technology*, in submission, 2021.

45. Yongtae Ahn, Sanghyun Park, Min-Kyu Ji, Geon-soo Ha, **Byong-Hun Jeon**, Jaeyoung Choi. Microalgae isolation from acid mine drainage and assessment biodiesel production potential. *Algal Research*, in submission, 2021.
46. Divya Soni, Shilpi Sharma, Virendra Kumar Yadav, Haresh Kalasariya, Sweta Paimita Bera, Krishna Kumar Yadav, **Byong-Hun Jeon**. Aqueous and Ethanol Crude Extract of Fenugreek Saplings: As a Potential Antimicrobial Agent for Pathogenic Staphylococcus aureus and E. coli Bacteria. *Applied Sciences*, in submission, 2021.
47. Arzoo Agarwal, Varsha Gupta, Deepesh K Neelam, Sweta Parimita, Bera, Krishna Kumar Yadav, **Byong-Hun Jeon**. A Short Review on the Applications of Mushrooms and Their Extracts as Natural Antimicrobial Agents. *Antibiotics*, in submission, 2021.
48. Lakshminarayana Parashuram, Swati lal, Udaya Kumar Velu, Walid Nabgan, Praveen Martis, Sreenivasa S, Sharma S C, Raghu M S, Fahad A Alharthi, Akshatha S, **Byong-Hun Jeon**. N-rGO Wrapped CuZrO3 as a Multifunctional Visible-Light-Sensitive Catalyst for Advanced Oxidation of Pollutants and CO2 Reduction. *Applied Cayalysis B: Environmantal*, in submission, 2021.
49. Pandi Kalimuthu, Youjin Jim, Muthu Subbaiah, Daewhan Kim, **Byong-Hun Jeon**, Jinho Jung. Waste PET plastic bottle-derived metal-organic frameworks for arsenate removal. *Chemical Engineering Journal*, in submission, 2021.
50. **Byong-Hun Jeon**. Effect of nanoparticles on the removal of pollutants from wastewater by microalgae associated microbial community. *Environmental Pollution*, in submission, 2021.
51. Cui Pengfei, Zhu Zengguang, Du Houqiang, Tan Rong, Wang Weiwei, Jiu-Qiang Xiong, **Byong-Hun Jeon**, Ru Shaoguo. Cytoprotective roles of E3 ubiquitin ligases-NF-κB-autophagy axis in Pacific oysters Crassostrea gigas exposed to phenanthrene. *Environmental Science & Technology*, in submission, 2021.
52. Hyun-Seog Roh, Sang-Hyoun Kim, **Byong-Hun Jeon**. How can oxygen storage capacity affect redox properties of catalysis?. *Chemical Society Reviews*, in submission, 2021.
53. Jiu-Qiang Xiong, Xin Qi, Shaoguo Ru, Chen-Yu Zhao, Mayur B. Kurade, **Byong-Hun Jeon**. Novel biodegradation pathways of sulfacetamide by a green microalga, Scenedesmus quadricauda: Toxicity and biotransformation. *Journal of Hazardous Materials*, in submission, 2021.
54. Marwa M. El-Dalatony, Bikram Basak, Mayur B. Kurade, Young-Kwon Park, Hyun-Seog Roh, Min Jang, **Byong-Hun Jeon**. Coproduction of hydrogen and acetone-butanol-ethanol from microalgal biomass using Clostridium acetobutylicum. *Chemosphere*, in submission, 2021.
55. Naresh Amradi, **Byong-Hun Jeon**, Min Jang, Sang Hun Kim. Fermentative Biorefinery Model for Succinic and Medium-Chain Fatty Acids: Zero Waste Approach for Sustainable Bioeconomy, *Sustainable Energy & Fuels*, in submission, 2021.
56. Min Jang, Choe Earn Choong, Chang Min Park, Yoon-Young Chang, Jae-kyu Yang, Jung Rae Kim, Sang-Eun Oh, **Byong-Hun Jeon**, Eun Ha Choi, Yeomin Yoon. Interfacial engineering between perovskite oxide and g-C3N4 for boosted organic-pollutant demineralization and nitrogen photo-fixation. *Advanced Functional Materials*, in submission, 2020.
57. Harshad Bote, Samidha Kakade, Shivtej biradar, Rahul Khandare, Niraj Rane, **Byong-Hun Jeon**, Pankaj Pawar. Anti-aging poential of Chebulinic acid and Boeravinone B through modulation of redox homeostasis, *Phytomedicine*, in submission, 2021.
58. M K Prashanth, Chaitra K, Prakash Krishnaiah, K N Prashanth, yogesh Kumar k, Sandeep Kumar, Fahad A Alharthi, Byong-Hun Jeon, L Parashuram, Madihalli S Raghu. Multifunctional Carbon dot anchored halloysite nanotube: nanovehicle for cisplatin drug release, cytotoxicity on breast cancer cells and DNA binding studies. *Materials Today Communications,* in submission, 2020.
59. Niraj R Rane, Swapnil M Patil, Sanjay P Govindwar, **Byong-Hun Jeon**, Kisan M Kdam. Advances in constructed wetland design and configurations for the enganced phytoremediation of wastewater. *Frontiers in Microbiology, section Microbiotechnology,* in submission, 2020.
60. Shekhar B. Jadhav, Jyoti Prafulla, Shripad N. Surwase, **Byong-Hun Jeon**. Exploration of bioremediation capacity of pseudomonas aeruginosa BCH for structurally diverse dyes-mixture in aqueous phase: an optimization perspective. *Frontiers in Microbiology*, in submission, 2020.
61. Paul Bankole, Adedotun A Adekunle, Kirk T Semple, Byong-Hun Jeon, Sanjay P Govindwar. Biodegradation of anthracene by filamentous fungus, Aspergillus sydowii strain bpo1 newly isolated

from Polycyclic Aromatic Hydrocarbon (PAH) impacted mangrove soil. *Chemosphere*, in submission, 2020.

62. Jiu-Qiang Xiong, Mayur B. Kurade, Swapnil M. Patil, Sanjay P. Govindwar, Sean S. Lee, **Byong-Hun Jeon**. Environmental impacts of nanoparticles: An insight into transcriptomics and metagenomics of microalgae and microbial community. *Nature Nanotechnology*, in submission, 2019.
63. Xiaoyun Leng, Hongyuhang Ni, Tuoyu Zhou, Shah Faisal, **Byong-Hun Jeon**, Amanpreet K Virk, El-Sayed Salama, Aman Khan, Kai Zhang, Ze Ye, Pu Liu, Peng Zhang, Xiangkai Li. Novel substrate feeding strategy based on volatile fatty acids biosensor improves biogas production in anaerobic digestion. *Biosensors and Bioelectronics*, in submission, 2019.
64. Nima Mokhtari, Ali Reza Solaimany Nazar, Mehrdad Farhadian, Parisa Eskandari, **Byong-Hun Jeon**. Highly efficient Ag doped TiO_2 immobilized on thin glass with enhanced photocatalytic degradation of diphenhydramine and venlafaxine under visible light. *Journal of Environmental Management*, in submission 2019.
65. Nibedita Sarkar, Bikram Basak, Pradip Kumar Chatterjee, **Byong-Hun Jeon**, Amit Ganguly. A kinetics study of lipid recovery from food waste through Soxhlet extraction. *Energies*, in submission, 2019(8s).
66. Sivaprakash Gurusamy, Mohanrasu Kulanthaisamy, Ravindran Balasubramani, Ananthi Veleeswaran, Soon Woong Chang, **Byong-Hun Jeon**, Woo Jin Chung, ValanArasu Mariadhas, Naif Abdullah Al-Dhabi, Arun Alagarsamy. $AlCaO_4$ nanocatalytic biodiesel and antibacterial potential of silver nanoparticle production from *Pedalium murex* extract. *Energies*, in submission, 2019.
67. Siddheshwar Kshirsagar, Pankajkumar Waghmare, Ganesh Saratale, Rijuta Saratale, Mayur Kurade, **Byong-Hun Jeon**, Sanjay P. Govindwar. Water hyacinth- a low cost substrate to produce cellulolytic and hemicellulolytic enzymes for saccharification of pretreated corn straw biomass. *3Biotech*, 2019.

F. Proceeding Paper (Peer Reviewed)

1. Sang-Hoon Lee, Jae-Hoon Hwang, Reda A.I. Abou-Shanab, Sok-Chong Oh, **Byong-Hun Jeon**, Removal of perchlorate from aqueous solution by a novel strain (*Rhodococcus* sp. YSPW01) isolated from anaerobic digestor, 20th Advanced Ground Combat System Conference.
2. Sang-Hoon Lee, Jae-Hoon Hwang, Ki-Jung Paeng, **Byong-Hun Jeon**, Ammonium perchlorate removal from aqueous medium by a newly isolated bacterium *Rhodococcus* sp., *The Korea Institute of Military Science and Technology,* 2012.
3. Jae-Hoon Hwang, Jeong-A Choi, You-Kwan Oh, Reda A.I. Abou-Shanab, Hocheol Song, Booki Min, Yunchul Cho, **Byong-Hun Jeon**, Hydrogen production from sulfate and ferrous enriched wastewater, Asian Biohydrogen Symposium and APEC Advanced Bio-Hydrogen Technology Conference, 2010.
4. Jae-Hoon Hwang, Jeong-A Choi, **Byong-Hun Jeon**, Resolution of Water Shortage in the Future Society: A New Way of Wastewater Treatment using Algae, Chuncheon Global Water Forum, 2010.
5. Jae-Hoon Hwang, Jeong-A Choi, R.A.I. Abou-Shanab, **Byong-Hun Jeon**, Feasibility of fermentative bio-hydrogen production from different organic wastes, The Korean Society for New and Renewable Energy conference, 2009.
6. Jeong-A Choi, Eva Kumar, **Byong-Hun Jeon**, GFH를 이용한 perchlorate 흡착연구, Chuncheon Global Water Forum, September 3-4th, 2009.
7. Yang-Hun Choi, Eva Kumar, Amit Bhatnagar, Woosik Jung, **Byong-Hun Jeon**, Joon-Wun Kang, Removal of bromate from drinking water by granular ferric hydroxide (GFH), AWWA Water Quality Treatment Conference, Cincinnati (USA), November 15-20th, 2008.
8. Amit Bhatnagar, Min-Kyu Ji, Yang-Hun Choi, Woosik Jung, **Byong-Hun Jeon**, Joon-Wun Kang, A comparative study of nitrate removal from aqueous solutions using zinc chloride treated granular activated carbons, AWWA WQTC Conference, 2007.
9. **Byong-Hun Jeon**, Sun-Joon Kim, Sang-Hoon Lee, Woosik Jung, A review of recent technologies for arsenic contaminated subsurface. *MIRECO (Mine Reclamation Corporation),* 2008.
10. S.M. Heald, J.M. Zachara, **Byong-Hun Jeon**, J.P. McKinley, R. Kukkadapu, D. Moore, XAFS Study of the Chemical and Structural States of Technetium in Fe(III) Oxide Co-precipitates, *American*

Institute of Physics Conference Proceedings, 882(1), 173-175, 2007.

11. **Byong-Hun Jeon**, H-K Chung, Abiological approach for the remediation of U (VI) contaminated subsurface, International Symposium on Radiation Safety Management. *Korea Atomic Energy Research Institute*, Daejeon, Korea, November 2-4th, 2005.
12. Dempsey B. A., Dietz J., **Byong-Hun Jeon**, Roscoe H.C., and Ames R., Heterogeneous oxidation of ferrous iron for treatment of mine drainage. Proceedings of the *2002 National Meeting of the American Society of Mining and Reclamation*, Lexington, KY, 487-495 June 9-13th, 2002.
13. Dempsey B. A., Baldwin, J., Fu F., **Byong-Hun Jeon,** Getting rid of water: Back to the basics, *WEF Biosolid Technical Bulletin*, 5 (5), 1-4, 1999.

G. Thesis

1. **Byong-Hun Jeon**. Reactions of ferrous iron with iron oxides under an anoxic environment, Ph. D. Thesis in Environmental Engineering, The Pennsylvania State University, 2001.
2. **Byong-Hun Jeon**. The characterization of iron oxides produced from passive treatment of mine drainage, M. S. Thesis in Environmental Engineering, The Pennsylvania State University, 1998.

F. Cover Image

1. *Bioresource Technology* Volume 322, 2021. Anaerobic co-digester microbiome during food waste valorization reveals Methanosaeta mediated methanogenesis with improved carbohydrate and lipid metabolism. Swapnil M. Patil, Mayur B. Kurade, Bikram Basak, Shouvik Saha, Min Jang, Sang-Hyoun Kim, **Byong-Hun Jeon**.
2. *Trends in Microbiology* Volume 28, 2020. Microbial Symbiosis: A Network towards Biomethanation. Shouvik Saha, Bikram Basak, Jae-Hoon Hwang, El-Sayed Salama, Pradip K. Chatterjee, **Byong-Hun Jeon**.

CONFERENCE AND SYMPOSIUM (Total 311)

1. **Byong-Hun Jeon**, Recovery of overfed-stalled anaerobic digesters through bioaugmentation with acclimatized microbial consortium, International conference on Biotechnology for Sustainable Bioresources and Bioeconomy, Indian Institute of Techonlogy, Guwahati, India, 7th-11th December, 2022.
2. **Byong-Hun Jeon**, Recovery of overfed-stalled anaerobic digesters through bioaugmentation with acclimatized microbial consortium, 2022, International conference on Emerging Trends in Bioscience and Chemical Technology, Matrika Auditorium SMVDU, Katra, India, 3rd – 5th December, 2022.
3. Mayur B. Kurade, Shouvik Saha, **Byong-Hun Jeon**, Improvement in biomethane production by utilizing the high-strength organic resources: Waste to energy nexus, International conference on Biotechnology for Sustainable Bioresources and Bioeconomy, Indian Institute of Techonlogy, Guwahati, India, 7th-11th December, 2022.
4. Mayur B. Kurade, Mustafa Ghulam, **Byong-Hun Jeon**, Integrated sonication and microalgal treatment for enhanced removal of organic contaminants from wastewater, 2022, International conference on Emerging Trends in Bioscience and Chemical Technology, Matrika Auditorium SMVDU, Katra, India, 3rd – 5th December, 2022.
5. Shouvik Saha, **Byong-Hun Jeon**, Improved methanation of lipidic waste using acclimatized consortia in dual-stage pulse-feed co-digestion, 2022 The Korean Society of Clean Technology Fall Conference, The Maisongladjeju, South Korea, 21th-23th September 2022.
6. Nikita Yadav, Hyun-Jo Ahn, Niraj R. Rane, Mayur, B. Kurade, **Byong-Hun Jeon**, Comprehensive study on the phytoremediation of Iris pseudacorus on Bisphenol-S and its metabolic fate, 2022 The Korean Society of Clean Technology Fall Conference, The Maisongladjeju, South Korea, 21th-23th September 2022.
7. Geon-Soo Ha, Chan-Yeong Lee, **Byong-Hun Jeon**, Energy-saving pretreatment strategies of

microalgae for high-concentration biofuels production, 2022 The Korean Society of Clean Technology Spring Conference, The Westin Josun Busan Hotel, South Korea, 23th-25th March 2022

8. Geon-Soo Ha, Chan-Yeong Lee, **Byong-Hun Jeon**, Energy-saving pretreatment strategies of microalgae for high-concentration biofuels production, 2022 The Korean Society of Clean Technology Spring Conference, The Westin Josun Busan Hotel, South Korea, 23th-25th March 2022.
9. Ju-Hyeok Kwon, Kung-Won Choi, Seong-Hyun Pyo, and **Byong-Hun Jeon**, Removal of Various Contaminants Using Designed Pilot Plants for Wastewater, 2022 The Korean Society of Clean Technology Spring Conference, The Westin Josun Busan Hotel, South Korea, 23th-25th March 2022.
10. Niraj R. Rane, Swapnil Patil, Bikram Basak, **Byong-Hun Jeon**, Omics insights into anaerobic co-digestion of lignocellulosic waste, animal manure and food waste. ACS spring 2022, Omni San Diego Hotel, USA, 20th-24th March 2022
11. Shouvik Saha , Mayur Kurade , **Byong-Hun Jeon**, Core microbiota behind the enhanced methanation in anaerobic digestion of slaughterhouse waste. ACS spring 2022, Omni San Diego Hotel, USA, 20th-24th March 2022
12. Mayur Kurade, Ghulam Mustafa, Ji-Kwang Cheon, **Byong-Hun Jeon**, Improved removal of organic contaminants from simulated wastewatervia integration of sonication therapy into microalgal treatment. ACS spring 2022, Omni San Diego Hotel, USA, 20th-24th March 2022
13. Hyun-Jo Ahn, Mayur B. Kurade, and **Byong-Hun Jeon**, Influence of nanoparticles on the biodegradation capability of Scenedesmus obliquus. ACS spring 2022, Omni San Diego Hotel, USA, 20th-24th March 2022
14. Subbaiah Muthu Prabhu, Narendra Kumar Alam Venugopal, Byong-Hun Jeon, La-incorporation in oxygen-rich MoS nanosheets for arsenic removal. ACS spring 2022, Omni San Diego Hotel, USA, 20th-24th March 2022
15. Swapnil M. Patil, Niraj R. Rane, **Byong-Hun Jeon**, Methanogenic performance and multi-omics analysis of a continuousanaerobic co-digester under mesophilic and thermophilic conditions. ACS spring, ACS spring 2022, Omni San Diego Hotel, USA, 20th-24th March 2022
16. Ramesh Kumar, **Byong-Hun Jeon**. Humic acid assited alkaline pretreatment of Kentucky bluegrass (*Poapratensis L.*) for enhanced saccharification towards sustainable biofuel (ethanol) production. The Korean Society of Clean Technology Fall Conference, South Korea. 8th-10th March 2021.
17. Ju-Hyeok Kwon, Liu Chengjia, **Byong-Hun Jeon**. Soil properties-dependent partitioning behavior of hydrophobic organic compounds (HOCs) in soil-water-surfactant systems. The Korean Society of Clean Technology Fall Conference, South Korea. 8th-10th March 2021.
18. Do-Hyeon Kim, Ju-Hyeok Kwon, Chengjia Liu, **Byong-Hun Jeon**. Advancement of Soil Flushing Technology at Oil Contaminated Sites Using Surfactants. The Korean Society of Clean Technology Fall Conference, South Korea. 8th-10th March 2021.
19. Hoo Hugo Kim, Shouvik Saha, Bikram Basak, **Byong-Hun Jeon**. Pilot Test on Anaerobic Digestion System Organic Overloading and Subsequent Stabilizer Agent Injection. The Korean Society of Clean Technology Fall Conference, South Korea. 8th-10th March 2021.
20. Hyun-Jo Ahn, Mayur B. Kurade, **Byong-Hun Jeon**. The Comprehensive Effect of Aluminum Oxide Nanoparticle and Sulfacetamide on *Scenedesmus obliquus*. The Korean Society of Clean Technology Fall Conference, South Korea. 8th-10th March 2021.
21. Ji-Kwang Cheon, Hae-ae Kim, **Byong-Hun Jeon**. Activities criteria for participants in the science and technology field based on analysis of common factors for success in Carbon Neutrality Governance. The Korean Society of Clean Technology Fall Conference, South Korea. 8th-10th March 2021.
22. Geon-Soo Ha, **Byong-Hun Jeon**. High-concentration biofuels production from holistic conversion of microalgal biomass through integrated pretreatment strategies. The Korean Society of Clean Technology Fall Conference, South Korea. 8th-10th March 2021.
23. Nikita Yadav, Sanjay P. Govindwar, **Byong-Hun Jeon**. Uptake and removal of emerging contaminants using Iris pseudacorus and periphytic biofilm from wastewater. The Korean Society of Clean Technology Fall Conference, South Korea. 8th-10th March 2021.
24. **Byong-Hun Joen**, Geon-Soo Ha, Shouvik Saha, Bikram Basak. Whole conversion of biocomponent-based microalgal strains to multiple biofuels: an integrated biorefinery approach. International

conference on biotechnology for sustainable agriculture, Environment and health, Jaipur, Rajasthan, India. 7th April 2021.

25. Geon-Soo Ha, Gyeong-Uk Kim, Shouvik Saha, Byong-Hun Jeon. Energy-saving pretreatment and fermentation of microalgal strains to improve biofuels production. The Korean Society of Clean Technology spring meeting and international symposium, e-conference, South Korea. 25th March 2021.
26. Liu Chengjia, Ju-Hyeok Kwon, Do-Hyeon Kim, Kung-Won Choi, Prakash Krishnaiah, **Byong-Hun Jeon**. Standardization of surfactant mediated washing of contaminated soil. The Korean Society of Clean Technology spring meeting and international symposium, e-conference, South Korea. 25th March 2021.
27. Hyun-Jo Ahn, Mayur B. Kurade, Swapnil M. Ptail, **Byong-Hun Jeon**. The effect of Aluminum Oxide Nanoparticle on freshwater microalga. The Korean Society of Clean Technology spring meeting and international symposium, e-conference, South Korea. 25th March 2021.
28. Ju-Hyeok Kwon, Chengjia Liu, Do-Hyeon Kim, Kung-Won Choi, **Byong-Hun Jeon**. Dynamic box method of aquifer injectionto improve particle transfer effect. The Korean Society of Clean Technology spring meeting and international symposium, e-conference, South Korea. 25th March 2021.
29. Swapnil M. Patil, Mayur B. Kurade, Niraj R. Rane, **Byong-Hun Jeon**. Metagenomic analysis of anaerobic co-digestion revealed enhanced carbohydrate and lipid metabolism in food waste and sewage sludge reactor. The Korean Society of Clean Technology spring meeting and international symposium, e-conference, South Korea. 25th March 2021.
30. Shouvik Saha, Mayur B. Kurade, Geon-Soo Ha, **Byong-Hun Jeon**. Syntrophically associated microbiota induced methanation in anaerobic digestion of various organic waste. The Korean Society of Clean Technology spring meeting and international symposium, e-conference, South Korea. 25th March 2021.
31. Bikram Basak, **Byong-Hun Jeon**. Improved anaerobic digestion of lignocellulosic components of rice straw fractionated by combined hydrothermal and deep-eutectic solvent pretreatment. The Korean Society of Clean Technology spring meeting and international symposium, e-conference, South Korea. 25th March 2021.
32. **Byong-Hun Jeon**. Microbiome and NGS study, Invited lecture by MEB (Medicine-Engineering-Bio center) global development center committee, HIT room number 525, MEB global development center. 26th January 2021
33. Bikram Basak, **Byong Hun Jeon**. Recovery of overfe-stalled anaerobic digesters through bioaugmentation with acclimatized microbial consortium. 한국청정기술학회_추계학술대회. Online. 25th November 2020–27th Nobember 2020.
34. Nikita Yadav, Sanjay P. Govindwar, **Byong Hun Jeon**. Phyto-degradation of emerging contaminants from secondary wastewater using *Iris Pseudacorus*. 한국청정기술학회_추계학술대회. Online. 25th November 2020–27th Nobember 2020.
35. Shouvik Saha, Mayur B. Kurade, Geon-Soo Ha, Swapnil M. Ptail, **Byong Hun Jeon**. Microbiota facilitated greater methanation in anaerobic digestion of slaughterhouse waste. 한국청정기술학회_추계학술대회. Online. 25th November 2020–27th Nobember 2020.
36. Swapnil Patil, Mayur B. Kurade, Shouvik Saha, **Byong Hun Jeon**. Metagenomic analysis of anaerobic co-digestion revealed enhanced carbohydrate and lipid metabolism of food waste and sewage sludge substrates. 한국청정기술학회_추계학술대회. Online. 25th November 2020–27th Nobember 2020.
37. 권주혁, 유성가, **Byong Hun Jeon**. Adsorption and desorption characteristics of surfactant onto soil according to soil properties. 한국청정기술학회_추계학술대회. Online. 25th November 2020–27th Nobember 2020.
38. Hoo Hugo Kim, Mayur B. Kurade, Shouvik Saha, Swapnil Patil, **Byong-Hun Jeon**. Determining optimal utilization conditions of fat, oil and grease(FOG) in anaerobic co-digestion through

acclimatization with microbial metagenomics analysis. 한국청정기술학회_추계학술대회. Online. 25th November 2020–27th Nobember 2020.

39. 안현조, Mayur B. Kurade, Byong-Hun Jeon. Effect of Al_2O_3 nanoparticle on microalgal degradation of sulfonamide. 한국청정기술학회_추계학술대회. Online. 25th November 2020–27th Nobember 2020.
40. Geon-Soo Ha, Gyeong-Uk Kim, Shouvik Saha, **Byong Hun Jeon**. Energy-efficient microwave pretreatment and fermentation of microalgae to improve biofuels production. 한국청정기술학회_추계학술대회. Online. 25th November 2020–27th Nobember 2020.
41. Geon-Soo Ha, Marwa M. El-Dalatony, **Byong-Hun Jeon**. Whole conversion of microalgal biomass to biofuels through energy efficient microwave pretreatment and fermentation process, 259th ACS Fall 2020 Virtual Meeting & Exposition. USA. August 2020.
42. Kung-Won Choi, Chan-Ung Kang, Sun-Joon Kim, Byong-Hun Jeon. Stability of mineralized carbon and structural distortion of calcite by Mg2+, 259th ACS Fall 2020 Virtual Meeting & Exposition. USA. August 2020.
43. Swapnil M. Patil, Mayur B. Kurade, Sanjay P. Govindwar, Byong-Hun Jeon. A metagenomics study of soil microcosms to evaluate the bioremediation of textile dyes in a contaminated ecosystem, 259th ACS Fall 2020 Virtual Meeting & Exposition. USA. August 2020.
44. **Byong-Hun Jeon**, Geon-Soo Ha, Do-Hyeon Kim. Whole conversion of microalgae biomass to multiple biofuels through pretreatments and fermentations. ChungBuk university, Chungju, Korea, May 2020.
45. **Byong-Hun Jeon**, Whole conversion of microalgal biomass to biofuels through energy efficient pretreatment and fermentation. International Conference on New Horizons In Biotechnology, Trivandrum, Kerala, India, November 20th–24th, 2019 (Invited).
46. Shouvik Saha, **Byong-Hun Jeon**, Geon-Soo Ha. Microbial syntrophy improves the anaerobic digestion of polysaccharidic wastes, International Conference on New Horizons In Biotechnology, Trivandrum, Kerala, India, November 20th–24th, 2019.
47. 권주혁, **전병훈**. 토양의 계면활성제 흡착 특성 연구. 한국청정기술학회_추계학술대회. 대전 인터시티 호텔, 클로버. 25th September 2019–27th September 2019.
48. Geon-Soo Ha, Marwa M. El-Dalatony, **Byong-Hun Jeon**. Whole conversion of microalgal biomass to biofuels through energy efficient pretreatment and fermentation process. 한국청정기술학회_추계학술대회. 대전 인터시티 호텔, 클로버. 25th September 2019–27th September 2019.
49. Shouvik Saha, Dongho Kang, Hoo Kim, Geon-Soo Ha, **Byong-Hun Jeon**. Microbial syntrophy improves the anaerobic digestion of polysaccharidic wastes. 한국청정기술학회_추계학술대회. 대전 인터시티 호텔, 클로버. 25th September 2019–27th September 2019.
50. Bikram Basak, Ji-Kwang Cheon, Dohyeon Kim, **Byong-Hun Jeon**. Pretreatment with cellulolytic *Aspergillus fumigatus* facilitates improved methane production in anaerobic digestion of polysaccharidic wastes. 한국청정기술학회_추계학술대회. 대전 인터시티 호텔, 클로버. 25th September 2019–27th September 2019 (Invited).
51. Hoo H. Kim, Mayur B. Kurade, Dong-Ho Kang, **Byong-Hun Jeon**. Anaerobic co-digesiton of fat, oil and grease (FOG) and sewage sludge: Lab & pilot scale reactor operation. 한국청정기술학회_추계학술대회. 대전 인터시티 호텔, 클로버. 25th September 2019–27th September 2019.
52. Swapnil M. Patil, Mayur B. Kurade, Jiu-Qiang Xiong, Hyun-Jo Ahn, Sanjay P. Govindwar, **Byong-Hun Jeon**. Biodegradation of emerging contaminant sulfamethoxazole using Ipomoea aquatica: Potential application of phytoremediation. 한국청정기술학회_추계학술대회. 대전 인터시티 호텔, 클로버. 25th September 2019–27th September 2019 (Invited).
53. 지승은, Amrita Choudhury, 김도현, **전병훈**, 김선준. 다양한 침출조건에 따른 산화동광석 내 구리 회수율 비교 연구. 2019 한국자원공학회 제112회 춘계학술발표회. 한국지질자원연구원, Daejeon,

Korea. 9-10th May 2019.

54. 최궁원, 강찬웅, **전병훈**, 김선준. 발전회에 고정한 CO_2의 안정성 및 마그네슘에 따른 탄산염 성상 분석. 2019 한국자원공학회 제112회 춘계학술발표회. 한국지질자원연구원, Daejeon, Korea. 9-10th May 2019.
55. Kung-Won Choi, Chan-Ung Kang, **Byong-Hun Jeon**, Sunjoon Kim. 발전회 복합탄산염 침전 및 CO_2 안정성 연구. 2019 한국지하수토양환경학회 정기총회 및 춘계학술대회, 제주 한화리조트, 9th April 2019.
56. Bikram Basak, **Byong-Hun Jeon**, Chan-Ung Kang, Kung-Won Choi, 아파르바 데이. *Candida tropicalis* PHB5 고정 사탕수수 버개스로 구성된 Packed-bed reactor를 이용한 페놀의 분해. 2019 한국지하수토양환경학회 정기총회 및 춘계학술대회, 제주 한화리조트, 9th April 2019.
57. Mayur B. Kurade, Jiu-Qiang Xiong, Sanjay P. Govindwar, **Byong-Hun Jeon**. *Ipomoea aquatica*를 이용한 수계 신규오염물질 sulfamethoxazole의 제거. 2019 한국지하수토양환경학회 정기총회 및 춘계학술대회, 제주 한화리조트, 9th April 2019.
58. Vishal Chandanshive, Suhas Kadam, Mayur B Kurade, **Byong-Hun Jeon**, Jyoti Jadhav, Sanjay P. Govindwar. In-situ phytoremediation of textile effluent using *Vetiveria zizanioides* in constructed wetland/phytobeds. 257th ACS National Meeting & Exposition. Orlando, Florida, USA. 3rd April 2019.
59. Mayur B. Kurade, Jiu-Qiang Xiong, Sanjay P. Govindwar, Dongho Kang, **Byong-Hun Jeon**. Removal and degradation mechanism of sulfamethoxazole by *Ipomea aquatica* from aquatic system: A labscale phytoreactor study. 257th ACS National Meeting & Exposition. Orlando, Florida, USA. 2nd April 2019.
60. Jiu-Qiang Xiong, Mayur B Kurade, Sanjay P. Govindwar, **Byong-Hun Jeon**. Biodegradation of sulfonamides using microalgae. 257th ACS National Meeting & Exposition. Orlando, Florida, USA. 2nd April 2019.
61. Geon-Soo Ha, Marwa M. El-Dalatony, El-Sayed Salama, Hoo Kim, **Byong-Hun Jeon**. Disintegration of microalgal cell wall and consequent improvement of bioconstituents fermentation for biofuel production. The Korean Society of Clean Technology 2019 spring conference, The-K Hotel, Gyeongju, South Korea, 28th March 2019.
62. Bikram Basak, Ju-Hyeok Kwon, Hyun-Jo Ahn, **Byong-Hun Jeon**. Improvement of biohydrogen production from vegetable waste using inoculum pretreatment. The Korean Society of Clean Technology 2019 spring conference, The-K Hotel, Gyeongju, South Korea, 28th March 2019.
63. Do-Hyun Kim, Hoo Kim, Dong-Ho Kang, Hyun-Jo Ahn, **Byong-Hun Jeon**. Development of a high efficiency biogas production technology through the co-digestion of lipid-waste FOG. The Korean Society of Clean Technology Conference, Kimdaejung Convention Center, Kwangju, South Korea. September 12-14th 2018.
64. Changman Kim, **Byong-Hun Jeon**, Jung-Rae Kim, Electro-fermentation of platform chemicals from glycerol by metabolically engineered *Klebsiella pneumoniae* L17. The Korean Society of Clean Technology Conference, Kimdaejung Convention Center, Kwangju, South Korea. September 12-14th 2018.
65. V. Chandanshive, S. Kadam, R. Khandare, M. Kurade, **Byong-Hun Jeon**, J. Jadhav, S.P. Govindwar. In situ phytoremediation of organic contaminants from textile wastewater using garden ornamental plants in a constructed wetland. 256th ACS National Meeting & Exposition. Boston Convention & Exhibition Center, Boston, United States, 19-23rd August 2018.
66. J. Xiong, M. Kurade, H. Ahn, **Byong-Hun Jeon**, Environmental risks of sulfamethazine and sulfamethoxazole, and their preferential biodegradation from a mixture by a green microalga, *Scenedesmus obliquus*. 256th ACS National Meeting & Exposition. Boston Convention & Exhibition Center, Boston, United States, 19-23rd August 2018.
67. M. Kurade, S. Saha, D. Kim, S. Govindwar, **Byong-Hun Jeon**, Dissecting microbial community shifts during anaerobic co-digestion of Fat, oil and grease (FOG). 256th ACS National Meeting &

Exposition. Boston Convention & Exhibition Center, Boston, United States, 19-23rd August 2018.

68. Jiu-Qiang Xiong, Mayur B. Kurade, **Byong-Hun Jeon,** Microalgal remediation of pharmaceutical contaminants from water, The 4th international conference on contaminated land, ecological assessment and remediation (CLEAR), The Hong Kong Polytechnic University, Hongkong, China. 16-18th August 2018.
69. Nibedita Sarkar, Amit Ganguly, **Byong-Hun Jeon**, Kaustav Aikat, Pradip Chatterjee, Foodwaste, a good option for biodiesel production, 8th IconSWM 2018, Vijayawada, India, November 22-24 th, 2018.
70. Young Eun Son, Changmam Kim, Jiyun Baek, **Byong-Hun Jeon**, Jung Rae Kim, Effect of electron and proton migration for the acetate production using the carbon monoxide in the bioelectrochemical system, Korean Society of Clean Technology Conference, The-K Hotel, Gyeongju, Korea, March 28-30th, 2018.
71. Shouvik Saha, Sung-Eun Chang, Mayur B. Kurade, Do-hyeon Kim, **Byong-Hun Jeon**, Improvement of fermentative hydrogen production using waste Fat, oil and grease (FOG), Korean Society of Clean Technology Conference, The-K Hotel, Gyeongju, Korea, March 28-30th, 2018.
72. Jiu-Qiang Xiong, Mayur B. Kurade, Hyun-Jo Ahn, **Byong-Hun Jeon**, Environmental risks of sulfamethazine and sulfamethoxazole, and their preferential biodegradation from a mixture by a green microalga, Scenedesmus obliquus, Korean Society of Clean Technology Conference, The-K Hotel, Gyeongju, Korea, March 28-30th, 2018.
73. El-Sayed Salama, Hoo Kim, Mayur B. Kurade, **Byong-Hun Jeon**, The effect of calcium on the anaerobic co-digestion of fat, oil and grease (FOG), Korean Society of Clean Technology Conference, The-K Hotel, Gyeongju, Korea, March 28-30th, 2018.
74. Changman Kim, Cho Rong Lee, **Byong-Hun Jeon**, Jung Rae Kim, Development of synthetic microbial consortium for biological conversion and bioenergy production, Korean Society of Clean Technology Conference, The-K Hotel, Gyeongju, Korea, March 28-30th, 2018.
75. Mayur B. Kurade, Shouvik Saha, Sung-Eun Chang, **Byong-Hun Jeon**, Dissecting microbial community shifts during co-digestion of Fat, oil and grease (FOG), Korean Society of Clean Technology Conference, The-K Hotel, Gyeongju, Korea, March 28-30th, 2018.
76. Jeong-Yun Jang, Subhabrata Dev, Sang-Hun Lee, **Byong-Hun Jeon**, Pyrolytic treatment for the remediation of crude oil contaminated soil, 255th American Chemical Society National Meeting & Exposition, Morial Convention Center, New Orleans, United States, 18-26th March, 2018.
77. Jiuqiang Xiong, Mayur Kurade, Geon-Soo Ha, Jung Rae Kim, **Byong-Hun Jeon**, Cometabolic degradation of antibiotic using microalgae, 255th American Chemical Society National Meeting & Exposition, Morial Convention Center, New Orleans, United States, 18-26th March, 2018.
78. Shouvik Saha, Sung-Eun Chang, Mayur Kurade, Soon-Woong Chang, **Byong-Hun Jeon**, Utilization of waste fat, oil and grease (FOG) for the improvement of fermentative hydrogen production, 255th American Chemical Society National Meeting & Exposition, Morial Convention Center, New Orleans, United States, 18-26th March, 2018.
79. Sung-Eun Chang, Shouvik Saha, **Byong-Hun Jeon**, Utilization of fruit wastes for the production of hydrogen and volatile fatty acids, 2018 International Conference on Next-generation Convergence Technology (ICNCT2018), S Ratchada Leisure Hotel, Bangkok, Thailand, 8-11th January, 2018.
80. Siddheshwar D. Kshirsagar, Ganesh D. Saratale, Mayur B. Kurade, **Byong-Hun Jeon**, Sanjay P. Govindwar, Utilization of agricultural residues as renewable energy resources: pretreatments and processes for cellulolytic enzyme production, 2017 Fall Joint Conference of KSMER·KSRM·KSEG, Haeundaegrandhotel, Busan, Republic of Korea, 1-3th November, 2017.
81. Mayur B. Kurade, Jiu-Qiang Xiong, **Byong-Hun Jeon**, Microalgal bioremediation: A new approach for the removal of pharmaceutical contaminants from aqueous phase, 2017 Fall Joint Conference of KSMER·KSRM·KSEG, Haeundaegrandhotel, Busan, Republic of Korea, 1-3th November, 2017.
82. El-Sayed Salama, Shouvik Saha, Mayur B. Kurade, Subhabrata Dev, **Byong-Hun Jeon**, Recent trends in anaerobic co-digestion of lipid-waste: Fat, oil and grease (FOG) for the enhancement of biomethanation, 2017 Fall Joint Conference of KSMER·KSRM·KSEG, Haeundaegrandhotel, Busan, Republic of Korea, 1-3th November, 2017.
83. Marwa M. El-Dalatony, Geon-Soo Ha, El-Sayed Salama, **Byong-Hun Jeon**, Serial fermentations and

transesterification for microalgal biomass transformation into biofuels, The 2nd International Conference on Alternative Fuels and Energy, Hotel Inter-Burgo Exco, Daegu, Republic of Korea, 23-25th October, 2017.

84. El-Sayed Salama, Geon-Soo Ha, **Byong-Hun Jeon**, Interactive effect of indole-3-acetic acid and diethyl aminoethyl hexanoate on the growth and fatty acid content of some microalgae for biodiesel production, The 2nd International Conference on Alternative Fuels and Energy, Hotel Inter-Burgo Exco, Daegu, Republic of Korea, 23-25th October, 2017.
85. Jiuqiang Xiong, Mayur B. Kurade, Sung-Eun Chang, **Byong-Hun Jeon**, Biodegradation and metabolic fate of levofloxacin via a freshwater green alga, Scenedesmus obliquus in synthetic saline wastewater, 254rd American Chemical Society National Meeting & Exposition, Walter E. Washington Convention Center, Washington, DC, United States, 20-24th August, 2017.
86. Mayur Kurade, Jeong-Yun Jang, **Byong-Hun Jeon**, Degradation of methyl paraben in aqueous phase using UV-activated persulfate method, 254rd American Chemical Society National Meeting & Exposition, Walter E. Washington Convention Center, Washington, DC, United States, 20-24th August, 2017.
87. Marwa Eldalatony, El-Sayed Salama, Shouvik Saha, Mayur Kurade, **Byong-Hun Jeon**, Complete exploitation of carbon for transforming microalgal biomass into biofuels via serial fermentations and transesterification, 254rd American Chemical Society National Meeting & Exposition, Walter E. Washington Convention Center, Washington, DC, United States, 20-24th August, 2017.
88. Shouvik Saha, Hoo Kim, Mayur Kurade, **Byong-Hun Jeon**, Enhancement of bioavailability in fruit waste through the optimization of pretreatment, 254rd American Chemical Society National Meeting & Exposition, Walter E. Washington Convention Center, Washington, DC, United States, 20-24th August, 2017.
89. Suhas K. Kadam, Vishal V. Chandanshive, Mayur B. Kurade, **Byong-Hun Jeon**, Sanjay P. Govindwar, Phytobeds with Fimbristylis dichotoma and Ammannia baccifera for the treatment of textile industry effluent, The Korean Society of Clean Technology. Gyungdo Resort, Yeosucc, Korea, September 20-22th, 2017.
90. Subhabrata Dev, **Byong-Hun Jeon**, Soon Woong Chang, Jayanta Bhattacharya, Improvement of acid mine drainage treatment using anaerobic packed bed bioreactor, The Korean Society of Clean Technology. Gyungdo Resort, Yeosucc, Korea, September 20-22th, 2017.
91. Jiu-Qiang Xiong, Mayur B. Kurade, **Byong-Hun Jeon**, Removal of pharmaceutical contaminants from aqeous phase: Role of microalgae in bioremediation, The Korean Society of Clean Technology. Gyungdo Resort, Yeosucc, Korea, September 20-22th, 2017.
92. 김창만, **전병훈**, 김중래, Simultaneous treatment of indium wastewater with bioelectricity generation using microbial fuel cell, The Korean Society of Clean Technology. Gyungdo Resort, Yeosucc, Korea, September 20-22th, 2017.
93. 송영은, 김창만, **전병훈**, 김중래, Electricity generation from bioenergy extracted algae residue in microbial fuel cell, The Korean Society of Clean Technology. Gyungdo Resort, Yeosucc, Korea, September 20-22th, 2017.
94. Shouvik Saha, Mayur B. Kurade, **Byong-Hun Jeon**, Increase of accessibility of mixed fruit waste for effective digestion, The Korean Society of Clean Technology. Gyungdo Resort, Yeosucc, Korea, September 20-22th, 2017.
95. Jeong-Yun Jang, Subhabrata Dev, Do-Hyeon Kim, **Byong-Hun Jeon**, Pyrolytic treatment for the remediation of petroleum hydrocarbon contaminated soil, The Korean Society of Clean Technology. Gyungdo Resort, Yeosucc, Korea, September 20-22th, 2017.
96. Subhabrata Dev, **Byong-Hun Jeon**, Soon Woong Chang, Jayanta Bhattacharya, Development of nitrogen source to improve the biological treatment of acid mine drainage, 108th Spring Conference of the Korean Society of Mineral and Energy Resources Engineers, The MVL Hotel, Yeosu, South Korea. 25-26th May, 2017.
97. El-Sayed Salama, Il-Seung Yang, **Byong-Hun Jeon**, Synergistic effect of auxin and cytokinin on the growth and fatty acid content of microalgae, 108th Spring Conference of the Korean Society of Mineral and Energy Resources Engineers, The MVL Hotel, Yeosu, South Korea. 25-26th May, 2017.

98. Il-Seung Yang, El-Sayed Salama, **Byong-Hun Jeon**, Algae - a phytoplankton for potential heavy metals phytoremediation from wastewater, 108th Spring Conference of the Korean Society of Mineral and Energy Resources Engineers, The MVL Hotel, Yeosu, South Korea. 25-26th May, 2017.
99. Jiu-Qiang Xiong, Shouvik Saha, Hoo Kim, **Byong-Hun Jeon**, Biodegradation of fluoroquinolone antibiotic from aqueous media by an acclimated green microalgae *Chlorella vulgaris*, 253rd American Chemical Society National Meeting & Exposition, San Francisco Marriott Union Square, San Francisco, CA, United States, 2-6th April, 2017.
100. Mayur B. Kurade, Marwa El-Dalatony, Sung-Eun Chang, **Byong-Hun Jeon**, Utilization of microalgae for the removal of emerging contaminants (ECs) from aqueous phase: A bioremedial approach, 253rd American Chemical Society National Meeting & Exposition, San Francisco Marriott Union Square, San Francisco, CA, United States, 2-6th April, 2017.
101. Rahul Kumar, Kang Ho Kim, Jeong Yun Jang, **Byong-Hun Jeon**, Hydrous zirconium oxide impregnated alginate beads for simultaneous sorption of hexavalent chromium and copper from aqueous solutions, 253rd American Chemical Society National Meeting & Exposition, San Francisco Marriott Union Square, San Francisco, CA, United States, 2-6th April, 2017.
102. Rahul Kumar, Kang-Ho Kim, Jeong-Yun Jang, Dinesh Mohan, **Byong-Hun Jeon**, Naturally occurring polysaccharide mediated composite for aquoues phase remediation of anionic and cationic metal species, Natioanl conference on Environmental Pollutants: Impacts assessment and remediation (NCPIAR-2017), School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India-110067. 29th March, 2017.
103. Young Eun Song, Seunghyun Lee, Changman Kim, **Byong-Hun Jeon**, Jinwoo Lee, Jung Rae Kim, Active metal-free catalyst cathode for oxygen reduction reaction in microbial fuel cells, The Korean Society of Clean Technology. The Westin Chosun, Seoul Hotel, Busan, Korea, March 29-31th, 2017.
104. Changman Kim, Hey Ji Lee, Ye rin Cho, Cho Rong Lee, **Byong-Hun Jeon**, Jung Rae Kim, Application of microbial fuel cell for bioelectricity generation with simultaneous treatment of indium wastewater, The Korean Society of Clean Technology, The Westin Chosun, Seoul Hotel, Busan, Korea, March 29-31th, 2017.
105. Jiuqiang Xiong, Mayur B. Kurade, Sung-Eun Chang, **Byong-Hun Jeon**, Microalgae mediated biodegradation of levofloxacin: Mechanistic study of enhanced removal, The Korean Society of Clean Technology, The Westin Chosun, Seoul Hotel, Busan, Korea, March 29-31th, 2017.
106. Marwa M. El-Dalatony, Mayur B. Kurade, Hoo Kim, **Byong-Hun Jeon**, Enhanced energy recovery from microalgal biomass through serial fermentations, The Korean Society of Clean Technology, The Westin Chosun, Seoul Hotel, Busan, Korea, March 29-31th, 2017.
107. Cho Rong Lee, Changman Kim, **Byong-Hun Jeon**, Jung Rae Kim, Application of electroplating wastewater as catholyte for bioelectricity generation with simultaneous treatment of hexavalent chromium in microbial fuel cell, The Korean Society of Clean Technology. The Westin Chosun, Seoul Hotel, Busan, Korea, March 29-31th, 2017.
108. Shouvik Saha, Mayur B. Kurade, Sung-Eun Chang, **Byong-Hun Jeon**, The optimization of pretreatment for the enhancement in bioavailability of mixed fruit waste, The Korean Society of Clean Technology, The Westin Chosun, Seoul Hotel, Busan, Korea, March 29-31th, 2017.
109. El-Sayed Salama, Il-Seung Yang, Mayur B. Kurade, **Byong-Hun Jeon**, Microalgal biomass production coupled with wastewater treatment for biofuel generation. The Korean Society of Clean Technology, The Westin Chosun, Seoul Hotel, Busan, Korea, March 29-31th, 2017.
110. Subhabrata Dev, **Byong-Hun Jeon**, Jayanta Bhattacharya, Improvement of the biological treatment of sulfate and metal-rich wastewater, The Korean Society of Clean Technology, The Westin Chosun, Seoul Hotel, Busan, Korea, March 29-31th, 2017.
111. 이준학, **전병훈**, 박성숙, 강찬웅, Rahul Kumar, 김선준, 박현성. 컬럼을 이용한 수용액에서의 비소 흡착 실험 연구, The Korean Society of Mineral and Energy Resources Conference, Hotel Hyundai, Gyeongju, South Korea. 3-4th November, 2016.
112. El-Sayed Salama, Sung-Eun Chang, Shouvik Saha, Il-Seung Yang, **Byong-Hun Jeon**, Diethyl aminoethyl hexanoate (DAH) and Indole-3-acetic acid (IAA) enhanced the microalgal growth and fatty acid content for biodiesel production, The Korean Society of Mineral and Energy Resources

Conference, Hotel Hyundai, Gyeongju, South Korea. 3-4th November, 2016.

113. Rahul Kumar, Jeong-Yun Jang, Kwang-Gyu Han, JayHyun Park, **Byong-Hun Jeon**, Interfacial Chemistry of Iron Cyanide Sorption onto Pristine Natural Soil and Mineral Phases, The Korean Society of Mineral and Energy Resources Conference, Hotel Hyundai, Gyeongju, South Korea. 3-4th November, 2016.
114. Shouvik Saha, **Byong-Hun Jeon**, Enhancing bioavailability of fruit wastes using acetic acid: Pretreatment approach for fermentation, The Korean Society of Mineral and Energy Resources Conference, Hotel Hyundai, Gyeongju, South Korea, 3-4th November, 2016.
115. Mayur B. Kurade, Rahul Kumar, Sanjay P. Govindwar, **Byong-Hun Jeon**, Bioremediation of textile effliuent and development of fixed bed reactor using highly efficient bacterial-yeast consortium, The Korean Society of Mineral and Energy Resources Conference, Hotel Hyundai, Gyeongju, South Korea. 3-4th November, 2016.
116. Marwa M. Eldalatony, Sung-Eun Chang, Shouvik Saha, **Byong-Hun Jeon**, Long-term production of bioethanol from microalgal biomass using free and immobilized yeast cells, The Korean Society of Mineral and Energy Resources Conference, Hotel Hyundai, Gyeongju, South Korea. 3-4th November, 2016.
117. Jiuqiang Xiong, **Byong-Hun Jeon**, Enhanced degradation of levofloxacin by a freshwater microalga, *Scenedesmus obliquus* and its metabolic fate, The Korean Society of Clean Technology, Hotel Le Win, Jeonju, South Korea. 28-30th September, 2016.
118. Rahul Kumar, Jeong-Yun Jang, **Byong-Hun Jeon**, Geochemical interaction between iron cynide species and soil mineral phases, The Korean Society of Clean Technology. Hotel Le Win, Jeonju, South Korea, 28-30th September, 2016.
119. Changman Kim, Mi Yeon Kim, **Byong-Hun Jeon**, Jung Rae Kim, Bioelectrochemical system based regulation of 3-hydroxypropionic acid production using recombinant Klebsiella pneumoniae L17, The Korean Society of Clean Technology, Hotel Le Win, Jeonju, South Korea, 28-30th September, 2016.
120. Shouvik Saha, Hoo Kim, **Byong-Hun Jeon**, Improving bioavailability of fruit wastes using organic acid: An exploratory study of biomass pretreatment for fermentation, The Korean Society of Clean Technology, Hotel Le Win, Jeonju, South Korea, 28-30th September, 2016.
121. Jiuqiang Xiong, **Byong-Hun Jeon**, Biodegradation of carbamazepine using freshwater microalgae *Chlamydomonas mexicana* and *Scenedesmus obliquus* and the determination of its metabolic fate, 252nd American Chemical Society National Meeting & Exposition, Pennsylvania Convention Center, Philadelphia, USA, 21-25th August, 2016.
122. Mayur B. Kurade, Jiuqiang Xiong, **Byong-Hun Jeon**, Biodegradation of diazinon using a freshwater microalga *Chlorella vulgaris*, 252nd American Chemical Society National Meeting & Exposition, Pennsylvania Convention Center, Philadelphia, USA, 21-25th August, 2016.
123. El-Sayed Salama, Marwa M. Eldalatony, Il-Seung Yang, **Byong-Hun Jeon**, Cultivation and harvesting of microalgae in photobioreactor for biodiesel production and simultaneous nutrient removal, 252nd American Chemical Society National Meeting & Exposition, Loews Philadelphia Hotel, Philadelphia, USA, 21-25th August, 2016.
124. Minsun Lee, Jae-Hoon Hwang, **Byong-Hun Jeon**, Continuous fermentation for bioethanol production using combined pretreatment of mixed microalgal biomass, 252nd American Chemical Society National Meeting & Exposition, Loews Philadelphia Hotel, Philadelphia, USA, 21-25th August, 2016.
125. Marwa M. Eldalatony, Shouvik Saha, Sung-Eun Chang, **Byong-Hun Jeon**, Repeated-batch fermentation of microalgal biomass for high yield bioethanol employing immobilized *Saccharomyces cerevisiae*. 252nd American Chemical Society National Meeting & Exposition, Loews Philadelphia Hotel, Philadelphia, USA, 21-25th August, 2016.
126. 이준학, **전병훈**, 박성숙, 강찬웅, 박현성, 김선준, As (V) adsorption in aqueous solution using various adsorbents, 한국자원공학회 제106회 춘계학술발표회. 호텔인터불고 원주, South Korea. 14-15th April, 2016.
127. El-Sayed Salama, Yang Il-Seung, **Byong-Hun Jeon**, Hoo Kim. Kinetics investigation of

Scenedesmus obliquus and *Chlorella vulgaris* flocculation using acid mine drainages, 한국자원공학회 제106회 춘계학술발표회. 호텔인터불고 원주, South Korea. 14-15th April, 2016.

128. Mayur B. Kurade, Jin Soo Kang, **Byong-Hun Jeon**, Freshwater microalga- *Chlorella vulgaris*, an effective tool for the biodegradation of diazinon, 한국자원공학회 제106회 춘계학술발표회, 호텔인터불고 원주. South Korea. 14-15th April, 2016.
129. Rahul Kumar, 강찬웅, Mimi Tian, 박제현, 백승한, **Byong-Hun Jeon**, Sorption/Desorption Mechanism of cyanides in contaminated mine tailings and treatment via chemical route, 한국자원공학회 제106회 춘계학술발표회, 호텔인터불고 원주. South Korea. 14-15th April, 2016.
130. Mimi Tian, Rahul Kumar, Jinsoo Kang, Jay-Hyun Park, **Byong-Hun Jeon**, Cyanide removal and treatment methodologies for contaminated mine tailings, 한국자원공학회 제106회 춘계학술발표회, 호텔인터불고 원주, South Korea. 14-15th April, 2016.
131. Changman Kim, Cho Rong Lee, Soo Jin Jeong, Ju Hyun Baek, **Byong-Hun Jeon**, Jung Rae Kim, Bioelectricity generation from glycerol by co-culture MFC using *Klebsiella pneumoniae* J2B and *Shewanella oneidensis* MR-1, The Korean Society of Clean Technology (KSCT) Conference, Grabel Hotel, Jeju Island, South Korea, 23-25th March, 2016.
132. Young Eun Song, **Byong-Hun Jeon**, Jung Rae Kim. Development of customized powere managerment system for high voltage generation and energy efficiency of microbial fuel cell, The Korean Society of Clean Technology (KSCT) Conference, Grabel Hotel, Jeju Island, South Korea, 23-25th March, 2016.
133. Marwa M. Eldalatony, Sung-Eun Chang, **Byong-Hun Jeon**, Long-term production of bioethanol in repeated-batch fermentation of microalgal biomass using immobilized *Saccharomyces cerevisiae*, The Korean Society of Clean Technology (KSCT) Conference, Grabel Hotel, Jeju Island, South Korea, 23-25th March, 2016.
134. Jiuqiang Xiong, Minsun Lee, **Byong-Hun Jeon**, Ciprofloxacin toxicity and its co-metabolic degradation by a freshwater microalga *Chlamydomonas mexicana*, The Korean Society of Clean Technology (KSCT) Conference, Grabel Hotel, Jeju Island, South Korea, 23-25th March, 2016.
135. Sarita Dhaka, Jeong A Choi, Rahul Kumar, **Byong-Hun Jeon**, Metal organic frameworks (MOFs) for the removal of emerging contaminants in aquatic media, The Korean Society of Clean Technology (KSCT) Conference, Grabel Hotel, Jeju Island, South Korea, 23-25th March, 2016.
136. Rahul Kumar, Sarita Dhaka, **Byong-Hun Jeon**, Oxidative transformation of organic substrates and scope of the method for environmental application, The Korean Society of Clean Technology (KSCT) Conference, Grabel Hotel, Jeju Island, South Korea, 23-25th March, 2016.
137. Sarita Dhaka, M.R. Maurya, Rahul Kumar, Fernando Avecilla, **Byong-Hun Jeon**, Catalytic oxidation of alcoholic pollutants by conventional and microwave-assisted methods, 2015 Fall Joint Conference of KSMER/KSRM/KSEG, Ramada Plaza Jeju Hotel, Jeju, October 28-31st, 2015.
138. Rahul Kumar, M.R. Maurya, Sarita Dhaka, Fernando Avecilla, **Byong-Hun Jeon**, Catalytic activity of dioxidomolybdenum (VI) complexes towards the oxidation of selected organic substrates, 2015 Fall Joint Conference of KSMER/KSRM/KSEG, Ramada Plaza Jeju Hotel, Jeju, October 28-31st, 2015.
139. El- Sayed Salama**,** **Byong-Hun Jeon**, Cultivation and harvesting of freshwater microalgal biomass in different wastewaters for biofuel production, 2015 Fall Joint Conference of KSMER/KSRM/KSEG, Ramada Plaza Jeju Hotel, Jeju, October 28-31st, 2015.
140. Mayur B. Kurade, Tatoba R. Waghmode, Sanjay P. Govindwar, **Byong-Hun Jeon**, Preferential biodegradation of structurally dissimilar dyes from a mixture by *Brevibacillus laterosporus*, 2015 Fall Joint Conference of KSMER/KSRM/KSEG, Ramada Plaza Jeju Hotel, Jeju, October 28-31st, 2015.
141. Marwa M. Eldalatony, Kim Hoo, **Byong-Hun Jeon**, Comparison of separate hydrolysis and fermentation with simultaneous saccharification and fermentation processes for ethanol production from *Chlamydomonas mexicana*, 2015 Fall Joint Conference of KSMER/KSRM/KSEG, Ramada Plaza Jeju Hotel, Jeju, October 28-31st, 2015.

142. Kim Kang-Ho, **Byong-Hun Jeon**, Seong-Sook Park, Chan-Ung Kang, Joon-Hak Lee, Sun-Joon Kim, Cr (VI) and Cu (II) adsorption on hydrous zirconium oxide impregnated alginate beads, 2015 Fall Joint Conference of KSMER/KSRM/KSEG, Ramada Plaza Jeju Hotel, Jeju, October 28-31st, 2015.
143. Jiuqiang Xiong, Mayur B. Kurade, Minsun Lee, **Byong-Hun Jeon**, Biodegradation of carbamazepine by freshwater microalgae, *Chlamydomonus mexicana* and *Scenedesmus obliquus*, 2015 Fall Joint Conference of KSMER/KSRM/KSEG, Ramada Plaza Jeju Hotel, Jeju, October 28-31st, 2015.
144. Young Eun Song, **Byong-Hun Jeon**, Jung Rae Kim, Comparison with maximum power point tracking (Mppt) logic algorithm and fixed load resisteance on contimuous microbial fuel cell operation, the Korean Society of Clean Technology conference, Bexco, Busan, September 16-18th, 2015.
145. Changman Kim, Satish Kumar Ainala, **Byong-Hun Jeon**, Sunghoon Park, Jung Rae Kim, Metabolic flux analysis of *Klebsiella pneumonia* L17 in microbial fuel cell, the Korean Society of Clean Technology conference, Bexco, Busan, September 16-18th, 2015.
146. Ganapathiraman Munussami, Somasundar Ashok, **Byong-Hun Jeon**, Sun-Gu Lee, Sunghoon Park, Jung Rae Kim, Bioelectrochemical synthesis of platform chemical with a genetically engineered electroactive bacterium: *Shewanella oneidensis* MR-1, the Korean Society of Clean Technology conference, Bexco, Busan, September 16-18th, 2015.
147. Min-Kyu Ji, Hyun-Shik Yun, Seong Joo Yoon, Dohyeong Kim, Soomi Park, **Byong-Hun Jeon**, Jaeyoung Choi, Mixotrophic cultivation of *Nephroselmis* Sp. using industrial wastewater for enhanced microalgal biomass production, the Korean Society of Clean Technology conference, Bexco, Busan, September 16-18th, 2015.
148. Rahul Kumar, Sarita Dhaka, Himanshu Gupta, **Byong-Hun Jeon**, Performance of macrophytes as an agent for environmental bioremediation, the Korean Society of Clean Technology conference, Bexco, Busan, September 16-18th, 2015.
149. Jiuqiang Xiong, Mayur B. Kurade, Minsun Lee, **Byong-Hun Jeon**, Biodegradation of carbamazepine by the freshwater microalgae *Chlamydomonas mexicana* and *Scedesmus obliquus*, the Korean Society of Clean Technology conference, Bexco, Busan, September 16-18th, 2015.
150. Marwa M. Eldalatony, Hoo Kim, **Byong-Hun Jeon**, Pretreatment of microalgal biomass for enhanced recovery of biofuel feedstocks: Reducing sugars and proteins, the Korean Society of Clean Technology conference, Bexco, Busan, September 16-18th, 2015.
151. Mayur B. Kurade, Tatoba R. Waghmode, Sanjay P. Govindwar, **Byong-Hun Jeon**, Differential catalytic action of *Brevibacillus laterosporus* on two structurally dissimilar azo dyes Remazol red and Rubine GFL, the Korean Society of Clean Technology conference, Bexco, Busan, September 16-18th, 2015.
152. El-Sayed Salama, Akhil N. Kabra, **Byong-Hun Jeon**, Diethyl aminoethyl hexanoate and indole-3-acetic acid enhanced the microalgal growth and fatty acid content for biodisesl production, the Korean Society of Clean Technology conference, Bexco, Busan, September 16-18th, 2015.
153. Minsun Lee, Mayur Kurade, Jaewon Choi, Jiuqiang Xiong, **Byong-Hun Jeon**, Biodegradation and biochemical changes of estrone by green microalgae, *Chlamydomonas mexicana*, the Korean Society of Clean Technology conference, Bexco, Busan, September 16-18th, 2015.
154. Chan-Ung Kang, **Byong-Hun Jeon**, Woosik Jung, Seong-Sook Park, Jin-Soo Kang, Kang-Ho Kim, Seung-Hoon Song, Sun-Joon Kim, Inhibition for oxidation of sulfide minerals on rock surface, the Korean Society of Mineral and Energy Resources Engineers conference, Daejeon, April 29-30th, 2015.
155. Kang-Ho Kim, **Byong-Hun Jeon**, Mayur B. Kurade, Seong-Sook Park, Chan-Ung Kang, Jin-Soo Kang, Sun-Joon Kim, Cr (VI) adsorption on the hydrous zirconium oxide impregnated alginate beads, the Korean Society of Mineral and Energy Resources Engineers conference, Daejeon, April 29-30th, 2015.
156. 강진수, **전병훈**, 박성숙, 강찬웅, 김강호, 위성도, 김선준, 황철석 결정면과 일반 노출면 표면의 철 인산염 피막형성 비교 연구, the Korean Society of Mineral and Energy Resources Engineers conference, Daejeon, April 29-30th, 2015.
157. Il-Seung Yang, El-Sayed Salama, Akhil N. Kabra, Kyong-Won Na, **Byong-Hun Jeon**, Cultivating and harvesting microalgae in a photobioreactor (PBR) using municipal wastewater for microalgal

biomass production and wastewater nutrient removal, the Korean Society of Mineral and Energy Resources Engineers conference, Daejeon, April 29-30th, 2015.

158. El-Sayed Salama, Akhil N. Kabra, **Byong-Hun Jeon**, Application of acid mine drainage (AMD) to coagulate/flocculate of microalgal biomass for biofuel production, the Korean Society of Mineral and Energy Resources Engineers conference, Daejeon, April 29-30th, 2015.
159. Hoo Kim, Marwa M. Eldalatony, **Byong-Hun Jeon**, Enzymatic hydrolysis of microalgal biomass for fermentative bioethanol production: An optimization study, the Korean Society of Mineral and Energy Resources Engineers conference, Daejeon, April 29-30th, 2015.
160. Woosik Jung, Oh-Hun Kwon, Akhil N. Kabra, Kyong-Won Na, **Byong-Hun Jeon**, Simultaneous removal of arsenic [III,V] and copper using hydrous zirconium oxide immobilized alginate bead, the Korean Society of Mineral and Energy Resources Engineers conference, Daejeon, April 29-30th, 2015.
161. **Byong-Hun Jeon**, El-Sayed Salama, Akhil N. Kabra, Enahancement of microalgal growth and biochemical content for cost effective biofuel production: Culturing and harvesting strategy, the Korean Society of Clean Technology Conference, Buyeo, March 26-27th, 2015.
162. Akhil N. Kabra, Sanjay P. Govindwar, **Byong-Hun Jeon**, Development of bioreactor for treatment of real textile effluent and mixture of dyes- A plant-bacterial synergistic strategy, the Korean Society of Clean Technology Conference, Buyeo, March 26-27th, 2015.
163. El-Sayed Salama, Akhil N. Kabra, **Byong-Hun Jeon**, Efficient harvesting of freshwater microalgae Senedesmus obliquus and Chlorella vulgaris using acid mine drainage, the Korean Society of Clean Technology Conference, Buyeo, March 26-27th, 2015.
164. Il-Seung Yang, El-Sayed Salama, Akhil N. Kabra, **Byong-Hun Jeon**, Cultivation and harvesting of freshwater microalgae in municipal wastewater for bioenergy production: A photobioreactor (PBR) study, the Korean Society of Clean Technology Conference, Buyeo, March 26-27th, 2015.
165. Minsun Lee, Jaewon Choi, Minkyu Ji, Akhil N. Kabra, Jiuqiang Xiong, **Byong-Hun Jeon**, Bioaccumulation and biodegradation of estrone by freshwater microalga *Chlamydomonas mexicana*, the Korean Society of Clean Technology, Buyeo, Korea, March 26-27th, 2015.
166. Mayur B. Kurade, Tatoba R. Waghmode, Sanjay P. Govindwar, **Byong-Hun Jeon**, Monitoring rapid biodegradation of simulated synthetic textile effluent and development of a novel bioreactor using a bacterial-yeast consortium, the Korean Society of Clean Technology, Buyeo, Korea, March 26-27th, 2015.
167. Akhil N. Kabra, Satheesh Kumar M., **Byong-Hun Jeon**, Treatment of direct textile effluent and mixture of dyes using a developed phytoreactor of Glandularia pulchella (Sweet) Tronc., the Joint Fall Korean Society of Mineral and Energy Resources Engineers (KSMER) conference, Phoenix Island, Jeju, Korea, November 6-8th, 2014.
168. Marwa M. El-dalatony, Akhil N. Kabra, **Byong-Hun Jeon**, Improving the perfoemance of microalgae hydrolysis fro bioethanol production: An optimization study, the Joint Fall Korean Society of Mineral and Energy Resources Engineers (KSMER) conference, Phoenix Island, Jeju, Korea, November 6-8th, 2014.
169. El-Sayed Salama, Yang Il-Seung, **Byong-Hun Jeon**, Coupling of wastewater treatment process with microalgae cultivation in photobioreactor (PBR) for nutrient removal and biofuel production, the Joint Fall Korean Society of Mineral and Energy Resources Engineers (KSMER) conference, Phoenix Island, Jeju, Korea, November 6-8th, 2014.
170. Minsun Lee, Akhil N. Kabra, M. Satheesh Kumar, Jiuqiang Xiong, and **Byong-Hun Jeon**, Biodegradation of the herbicide atrazine by green microalga *Chlamydomonas mexicana*, the Joint Fall Korean Society of Mineral and Energy Resources Engineers (KSMER) conference, Phoenix Island, Jeju, Korea, November 6-8th, 2014.
171. Woosik Jung, Oh-Hun Kwon, **Byong-Hun Jeon**, Sorption of arsenic and heavy metals onto various solid phase materials, the Joint Fall Korean Society of Mineral and Energy Resources Engineers (KSMER) conference, Phoenix Island, Jeju, Korea, November 6-8th, 2014.
172. Oh-Hun Kwon, Dong-Wan Cho, Woosik Jung, Akhil N. Kabra, **Byong-Hun Jeon**, Synthesis of hydrous zirconium oxides-impregnated alginate beads and their adsorption properties for arsenic species in aqueous solution, the Joint Fall Korean Society of Mineral and Energy Resources Engineers (KSMER) conference, Phoenix Island, Jeju, Korea, November 6-8th, 2014.

173. Dong-Wan Cho, Yongjie Kim, **Byong-Hun Jeon**, Hydrous zirconium oxide-impregnated chitosan bead for removal of fluoride and Pb (II) from aqueous solution, 2014 2nd International Conference on Contaminated Land, Ecological Assessment and Remediation, Chuncheon, Korea, October 5-8th, 2014.
174. Yong-Tae Ahn, Dong-Wan Cho, Seo-Hee Kim, Il-Hwan Choi, Joon-Wan Kang, **Byong-Hun Jeon**, The effects of aromaticity of natural organic Mmatter on the adsorption of 2-methylisobornel and geosmin by granular activated carbon, 2014 2nd International Conference on Contaminated Land, Ecological Assessment and Remediation, Chuncheon, Korea, October 5-8th, 2014.
175. Minsun Lee, Min-Kyu Ji, Muthukannan Satheesh Kumar, **Byong-Hun Jeon**, Biodegradation of estrone in freshwater microalga *Chlamydomonas mexicana*, 2014 2nd International Conference on Contaminated Land, Ecological Assessment and Remediation, Chuncheon, Korea, October 5-8th, 2014.
176. El-Sayed Salama, Akhil N. Kabra, Min-Kyu Ji, Marwa M. El-Dalatony, **Byong-Hun Jeon**, Acid mine drainage: A novol flocculant for the recovery of microalgal biomass, 2014 2nd International Conference on Contaminated Land, Ecological Assessment and Remediation, Chuncheon, Korea, October 5-8th, 2014.
177. Muthukannan Satheesh Kumar, Akhil N. Kabra, **Byong-Hun Jeon**, Insecticide induced biochemical changes in fresh water microalga *Chlamydomonas mexicana*, 2014 2nd International Conference on Contaminated Land, Ecological Assessment and Remediation, Chuncheon, Korea, October 5-8th, 2014.
178. Oh-Hun Kwon, Dong-Wan Cho, Woosik Jung, Akhil N. Kabra, **Byong-Hun Jeon**, Impregnation of anionic surfactant into MWCNT-entrapped Ca-alginate bead for enhanced removal of Pb (II) and Cd (II), 2014 2nd International Conference on Contaminated Land, Ecological Assessment and Remediation, Chuncheon, October 5-8th, 2014.
179. Abinashi Sigdel, Woosik Jung, Akhil N. Kabra, **Byong-Hun Jeon**, Simultaneous sorptive removal of volatile organic compounds and heavy metals from water by powered activated carbon encapsulated alginate beads, 2014 2nd International Conference on Contaminated Land, Ecological Assessment and Remediation, Chuncheon, Korea, October 5-8th, 2014.
180. Woosik Jung, Dong-Wan Cho, Akhil N. Kabra, Muthukannan Satheesh Kumar, **Byong-Hun Jeon**, Impregation of graphite nano carbon (GNC) into alginate beads as a potential adsorbent for the removal of heavy metals from aqueous solution, 2014 2nd International Conference on Contaminated Land, Ecological Assessment and Remediation, Chuncheon, Korea, October 5-8th, 2014.
181. Sang-Hoon Lee, Jae-Hoon Hwang, Akhil N. Kabra, **Byong-Hun Jeon**, Microbial reduction of perchlorate at high concentrations from aqueous medium using a bacterium *Rhodococcus sp.* YSPW03, 2014 2nd International Conference on Contaminated Land, Ecological Assessment and Remediation, Chuncheon, Korea, October 5-8th, 2014.
182. Min-Kyu Ji, El-Sayed Salama, Jae-Won Choi, Jae-Young Choi, **Byong-Hun Jeon**, Biodegradation of bisphenol A by the freshwater microalgae *Chlamydomonas mexicana* and *Chlorella vulgaris*, Korean Society of Environmental Engineers Conference, Gwangju, Korea, August 20-22th, 2014.
183. Oh-Hun Kwon, Woosik Jung, Akhil N. Kabra, **Byong-Hun Jeon,** Mechanism of Co (II) and Ni (II) adsorption on the nanosized carbon impregnated alginate beads, 248th American Chemical Society, San Francisco, California, USA, August 10-14th, 2014.
184. Minsun Lee, Akhil N. Kabra, Min-Kyu Ji, El-Sayed Salama, **Byong-Hun Jeon**, Microalgae mediated degradation of the herbicide atrazine, 248th American Chemical Society National Meeting, San Francisco, California, USA, August 10-14th, 2014.
185. El-Sayed Salama, Akhil N. Kabra, Min-Kyu Ji, Marwa M. El-Dalatony, **Byong-Hun Jeon**, Acid mine drainage: A novel flocculant for the recovery of microalgal biomass, 248th American Chemical Society National Meeting, San Francisco, California, USA, August 10-14th, 2014.
186. El-Sayed Salama, Akhil N. Kabra, Min-Kyu Ji, Marwa M. El-Dalatony, **Byong-Hun Jeon**, Enhancement of the microalgal growth and fatty acid content under the influence of phytohormones for biodiesel production, 248th American Chemical Society National Meeting, San Francisco, California, USA, August 10-14th, 2014.
187. Dong-Wan Cho, Chul-Min Chon, Yong-jJe Kim, **Byong-Hun Jeon**, Reduction of nitrate in

groundwater by Fe (0)/magnetite nanoparticles-impregnated alginate bead, the Korean Society of Mineral and Energy Resources Engineers conference (KIGAM), Daejeon, April 17-18th, 2014.

188. Woosik Jung, Oh-Hun Kwon, Dong-Wan Cho, **Byong-Hun Jeon**, Adsorption of heavy metals onto graphite nano carbon-immobilized alginate bead, the Korean Society of Mineral and Energy Resources Engineers conference (KIGAM), Daejeon, April 17-18th, 2014.
189. Yong-Tae Ahn, Dong-Wan Cho, Seo-Hee Kim, Jae-Won Choi, Il-Hwan Choi, Joon-Won Kang · **Byong-Hun Jeon**, Formation of intermediates by ozonation in iopromide-containing water and removal of iopromide and their intermediates using granular activated carbon (GAC), Korean Water Congress 2014, KINTEX, Gyeonggi-Do, Korea, March 20-21th, 2014.
190. Akhil N. Kabra, Minsun Lee, El-Sayed Salama, **Byong-Hun Jeon**, Bioaccumulation and biodegradation of the herbicide atrazine by freshwater microalga, the Korean Society of Clean Technology, Kyongdo resort, Yeosu, Korea, March 27-28th, 2014
191. Min-Kyu Ji, El-Sayed Salama, Akhil N. Kabra, **Byong-Hun Jeon**, Effect of mine drainage on nutrient removal and biochemical properties of microalgae cultivated in concentrated municipal wastewater, the Korean Society of Clean Technology, Kyongdo resort, Yeosu, Korea, March 27-28th, 2014.
192. Yong-Tae Ahn, Dong-Wan Cho, Jae-Won Choi, Sang-Hoon Lee, **Byong-Hun Jeon**, The Effect of natural organic matter on the sorption of iopromide onto granular activated carbon, International Conference on Biological, Chemical and Environmental Sciences, KEE Resort & Spa Hotel, 152/1 Thaveewong Rd., Patong Beach, Kathu, Phuket 83150, Thailand, January 21-22th, 2014.
193. Woosik Jung, Sang-Hoon Lee, Oh-Hun Kwon, Maxim I. Boyanov, **Byong-Hun Jeon**, The role of As (V) for the slow oxidation of Fe (II) by DO and characterization of the aqueous phase precipitates, International Conference on Biological, Chemical and Environmental Sciences, KEE Resort & Spa Hotel, 152/1 Thaveewong Rd., Patong Beach, Kathu, Phuket 83150, Thailand, January 21-22th, 2014.
194. El-Sayed Salama, Min-Kyu Ji, Akhil N. Kabra, Marwa M. El-Dalatony, **Byong-Hun Jeon**, Flocculation/coagulation of microalgal biomass using acid mine drainage: Effect of initial cell density, coagulant dosage and media pH, International Conference on Biological, Chemical and Environmental Sciences. KEE Resort & Spa Hotel, 152/1 Thaveewong Rd., Patong Beach, Kathu, Phuket 83150, Thailand, January 21-22th, 2014.
195. Min-Kyu Ji, El-Sayed Salama, Akhil N. Kabra, Minsun Lee, **Byong-Hun Jeon**, Effect of mine wastewater on nutrient removal and lipid production by microalgae from concentrated municipal wastewater, International Conference on Biological, Chemical and Environmental Sciences, KEE Resort & Spa Hotel, 152/1 Thaveewong Rd., Patong Beach, Kathu, Phuket 83150, Thailand, January 21-22th, 2014.
196. Oh-Hun Kwon, Woosik Jung, **Byong-Hun Jeon**, Adsorptive removal of Mn (II) and Co (II) from aqueous solution by nano carbon-impregnated alginate bead, the Korea Society of Waste Management, Jeju ICC, Jeju, November 14-16th, 2013.
197. Minsun Lee, **Byong-Hun Jeon**, Evaluation of *Ourococcus multisporus* YSW008 for organic wastewater treatment with simultaneous biofuel feedstock production, the Korea Society of Waste Management, Jeju ICC, Jeju, November 14-16th, 2013.
198. **Byong-Hun Jeon**, Removal of cobalt from groundwater using nano carbon impregnated alginate bead, Symposium on Hot sping, Onyang hot spring Hotel, Asan, October 17th, 2013.
199. Hyun-Chul Yang, Chul-Min Chon, Yong-Je Kim, Dong-Wan Cho, Hocheol Song, **Byong-Hun Jeon**, Adsorption/oxidation of As (III) using Mn-subtituted iron oxyhydroxide, the Korean Society of Mineral and Energy Resources Engineers conference, Kangwon University, Chuncheon, October 17-18th, 2013.
200. Oh-Hun Kwon, Dong-Wan Cho, Woosik Jung, Akhil N. Kabra, **Byong-Hun Jeon**, Adsorption of Pb (II) and Ni (II) from aqueous solution using nano carbon impregnated alginate bead, the Korean Society of Mineral and Energy Resources Engineers conference, Kangwon University, Chuncheon, October 17-18th, 2013.
201. Abinashi Sigdel, Woosik Jung, Oh-Hun Kwon, Akhil N. Kabra, **Byong-Hun Jeon**, Simultaneous removal of volatile organic compounds and heavy metal ions onto PAC impregnated alginate bead, the Korean Society of Mineral and Energy Resources Engineers conference, Kangwon University,

Chuncheon, October 17-18th, 2013.

202. Woosik Jung, Oh-Hun Kwon, Akhil N. Kabra, **Byong-Hun Jeon**, Adsorptive removal of Co (II) and Mn (II) using nano carbon impregnated alginate bead, the Korean Society of Mineral and Energy Resources Engineers conference, Kangwon University, Chuncheon, October 17-18th, 2013.
203. Dong-Wan Cho, Hocheol Song, Chul-Min Chon, Yonge Kim, **Byong-Hun Jeon**, Enhancement of reductive removal of nitrate using Fe (0) amended with nanosized magnetite in groundwater, the Korean Society of Mineral and Energy Resources Engineers conference, Kangwon University, Chuncheon, October 17-18th, 2013.
204. El-Sayed Salama, **Byong-Hun Jeon**, Evaluation of biomass and biochemical properties of freshwater microalgae cultivated in municipal wastewater under salt stress**,** the Korean Society of Environmental Engineers Conference, COEX, Seoul, Korea, June 11-13th, 2013.
205. El-Sayed Salama, Marwa M. El-Dalatony, Reda A.I. Abou-Shanab, **Byong-Hun Jeon**, Evaluation of biomass and lipid production of *Micractinium reisseri* cultivated in different effluents from municipal wastewater treatment plant, the Korean Society for New and Renewable Energy conference, MVL Hotel, Yeosu, May 30-31th, 2013.
206. Young-Keun Choi, Gil-Kae Lee, Mik-Yung Lee, Myung-Soo Choi, Woosik Jung, **Byong-Hun Jeon**, Removal of oder in the indivisual sewage treatment using microbial immobilization bead, Korean Society of Oder Research and Engineering conference, Kyungki University, May 30-31th, 2013.
207. Yong-Rim Kim, Reda A.I. Abou-Shanab, Sapereddy V. Raghavulu, **Byong-Hun Jeon**, Effect of various nutrient conditions on the microalgal production of lipid, the Korean Society for New and Renewable Energy conference, MVL Hotel, Yeosu, May 30-3th, 2013.
208. Woosik Jung, Abinashi Sigdel, Oh-Hun Kwon, **Byong-Hun Jeon**, Entrapment of nanoscale carbon in alginate beads for adsorption of heavy metals, KSMER, May 02-03th, 2013.
209. Dong-Wan Cho, Ho-Cheol Song, Yong-Je Kim, Chul-Min Chon, **Byong-Hun Jeon**, Nitrate reduction by zero-valent iron amended with nanosized magnetite in groundwater, KOSSGE, April 12th, 2013.
210. Min-Kyu Ji, Yong-Rim Kim, Yong-Je Kim, **Byong-Hun Jeon**, Cultivation of microalgae in wastewater supplemented with CO_2 for nutrient removal and biomass production, KOSSGE, April 12th, 2013.
211. Woosik Jung, Maxim I. Boyanov, **Byong-Hun Jeon**, Slow oxidation kinetics of Fe (II) with As (V) and characterization of Fe and As (V) precipitates in the aqueous solution, KOSSGE, April 12th, 2013.
212. **Byong-Hun Jeon**, Min-Kyu Ji, El-Sayed Salama, Jae-Hoon Hwang, Cultivation of freshwater microalgae species in wastewater with different abiotic factors, Korea Society of Clean Technology, Kyung-do resort, Yeosu, Korea, March 28-29th.
213. Yong-Tae Ahn, Min-Kyu Ji, Jae-Won Lim, Jae-Won Choi, Hye-Young Lee, Tae-Ue Kim, **Byong-Hun Jeon**, Removal of PPCPs from aqueous solutions by activated carbon, Korean Water Congress 2013, EXCO, Daegu, Korea, March 21-22th, 2013.
214. Sang-Hoon Lee, Jae-Hoon Hwang, Reda A.I. Abou-Shanab, Sok-Chong Oh, **Byong-Hun Jeon**, Removal of perchlorate from aqueous solution by a novel strain (*Rhodococcus* sp. YSPW01) isolated from anaerobic digestor, 20th Advanced Ground Combat System Conference, Daejeon Convention Center (DCC), December 13th, 2012.
215. El-Sayed Salama, Hyun-Chul Kim, Reda A. I. Abou-Shanab, **Byong-Hun Jeon**, Effect of NaCl on the biomass, lipid and fatty acid composition of freshwater *Chlamydomonas mexicana*, Korean Society of environmental engineers Conference, Changwon Convention Center, August 22-24th, 2012.
216. Min-Kyu Ji, Reda A.I. Abou-Shanab, Hyun-Chul Kim, **Byong-Hun Jeon**, Sceening of microalgae with for biodiesel production and nutrient for piggery wastewater effluent, Korean Society of environmental engineers Conference, Changwon Convention Center, August 22-24th, 2012.
217. Yong-Tae Ahn, Woosik Jung, Hyun-Chul Kim, Oh-Sung Kwon, **Byong-Hun Jeon**, Effect of DOM on the GAC adsorption of geosmin and 2-MIB, Korean Society of environmental engineers Conference, Changwon Convention Center, August 22-24th, 2012.
218. Dong-Jin Kim, Joon-Seok Kang, Soon-Buhm Kwon, Chung-Hwan Kim, Jae-Won Lim, Tae-Ue Kim, Hye-Young Lee, **Byong-Hun Jeon**, Evaluation of microbial removal efficiency by using API kit in microfiltration (MF) membrane system, Korean Society of environmental engineers Conference, Changwon Convention Center, August 22-24th, 2012.

219. Jae-Hoon Hwang, Jae-Young Choi, **Byong-Hun Jeon**, Photo-heterotrophic hydrogen production by a microalga from acetate- and butyrate- enriched wastewater, International Conference on Hydrogen Production, Renaissance Seoul Hotel, June 26th, 2012.
220. Sang-Hoon Lee, Jae-Hoon Hwang, Ki-Jung Paeng, **Byong-Hun Jeon**, Ammonium perchlorate removal from aqueous medium by a newly isolated bacterium *Rhodococcus* sp., the Korea Institute of Military Science and Technology, Gyeongju Hyundai Hotel, June 7-8th, 2012.
221. Woosik Jung, Hyun-Chul Kim, **Byong-Hun Jeon**, Effect of As (V) and/or As (III) on the oxidation of Fe (II) by dissolved oxygen, the Korean Society of Geosystem engineers Spring Conference, Jeju International Convention Center, May 03-04th, 2012.
222. Yong-Tae Ahn, Hyun-Chul Kim, Dong-Wan Cho, **Byong-Hun Jeon**, Removal of nitrate from groundwater using ZVI treatment system combined with continuous CO_2 gas Bubbling, the Korean Society of Geosystem Engineers Spring Conference, Jeju International Convention Center, May 03-04th, 2012.
223. Dong-Wan Cho, **Byong-Hun Jeon**, Yong-Je Kim, Chul-Min Chon, Hyun-Chul Kim, HoCheol Song, Removal of methylene blue and methyl orange from aqueous solution using chitosan/heulandite/Fe_3O_4 composites, the Korean Society of Geosystem Engineers Spring Conference, Jeju International Convention Center, May 03-04th, 2012.
224. Hyun-Min Kim, Sun-Joon Kim, Sang-Hun Lee, **Byong-Hun Jeon**, Woosik Jung, Jae-Young Choi, Ju-In Ko, Reductive immobilization of arsenic in soil using zero valent iron I (labscale study), the Korean Society of Geosystem Engineers Spring Conference, Jeju International Convention Center, May 03-04th, 2012.
225. Byung-In Jeong, Sun-Joon Kim, Sang-Hun Lee, **Byong-Hun Jeon**, Woosik Jung, Jae-Young Choi, Ju-In Ko, Reductive immobilization of arsenic in soil using zero valent iron II (in-situ study), the Korean Society of Geosystem Engineers Spring Conference, Jeju International Convention Center, May 03-04th, 2012.
226. Kang-Joon Hee, Sun-Joon Kim, Sang-Hun Lee, **Byong-Hun Jeon**, Woosik Jung, Jae-Young Choi, Ju-In Ko, A study on the influence of As (V) on the oxidation of Fe (II) under the heterogeneous conditions, the Korean Society of Geosystem engineers Spring Conference, Jeju International Convention Center, May 03-04th, 2012.
227. Hyun-Shik Yun, Min-Kyu Ji, Woo Ram Lee, Yong-Tae Park, **Byong-Hun Jeon**, Jae-Young Choi, Alternative energy convertion from the microalgae (In Acid Mine Drainge (AMD)), Korean Society of Soil and Groundwater Environment Spring Conference, Sejong University, Korea, April 12-13th, 2012.
228. Yong-Tae Ahn, Woosik Jung, Sang-Hoon Lee, Sung-Kyu Maeng, **Byong-Hun Jeon**, Adsorption of Organic Matter onto the Commercial Granular Activated Carbons, Korean Water Congress 2012, KINTEX, Gyeonggi-Do, Korea, March 21-22th, 2012.
229. Brian A. Dempsey, Jon Dietz, Woosik Jung, **Byong-Hun Jeon**, Enhanced iron oxidation to improve AMD treatment, International Symposium on Mine Reclamation, KangwonL and Convention Hotel, Gangwon-Do, Korea, September 22-23th, 2011.
230. Min-Kyu Ji, Hyun-Shik Yun, Eung-Do Gee, Woo-Ram Lee, Young-Tae Park, Jung-Seok Yang, Man-Jae Kwon, **Byong-Hun Jeon**, Jae-Young Choi, Passivation of sulfide mineral oxidation by phosphate coating agent: Field study, International Symposium on Mine Reclamation, KangwonL and Convention Hotel, Gangwon-Do, Korea, September 22-23th, 2011.
231. Hyun-Shik Yun, Min-Kyu Ji, Eung-Do Gee, Woo-Ram Lee, Young-Tae Park, Jung-Seok Yang, Man-Jae Kwon, **Byong-Hun Jeon**, Jaeyoung Choi, Passivation of Sulfide Mineral Oxidation by Surface Coating Agent: Batch Study, 2011 International Symposium on Mine Reclamation, KangwonL and Convention Hotel, Gangwon-Do, Korea, September 22-23th, 2011.
232. Jeong-A Choi, Jae-Hoon Hwang, Brian A. Dempsey, **Byong-Hun Jeon**, Influence of ultrasonication on the fermentative bioenergy (ethanol/hydrogen) production from an algal biomass, *Scenedesmus obliquus* YSW15, 242nd American Chemical Society National Meeting, Denver, Colorado, August 28th-September 01st, 2011.
233. Jae-Hoon Hwang, Jeong-A Choi, R.A.I. Abou-Shanab, Veer Raghavulu Sapireddy, E.A. Salama, Brian A. Dempsey, **Byong-Hun Jeon**, Influences of CO_2 and light wavelength on the acceleration of

microalgal biomass as raw materials for biodiesel production, 242nd American Chemical Society National Meeting, Denver, Colorado, August 28th-September 01st, 2011.

234. Min-kyu Ji, Veer Raghavulu Sapireddy, Hyun-Shik Yun, R.A.I. Abou-Shanab, Jaeyoung Choi, **Byong-Hun Jeon**, Effects of piggery wastewater on *Chlorella vulgaris* YSW004 growth, nutrient uptake, and fatty acid production, 242nd American Chemical Society National Meeting, Denver, Colorado, August 28th-September 01st, 2011.
235. Woosik Jung, **Byong-Hun Jeon**, Influence of As (V) on the oxidation of Fe (II) by dissolved oxygen, 242nd American Chemical Society National Meeting, Denver, Colorado, August 28th-September 01st, 2011.
236. Min-Kyu Ji, Veer Raghavulu Sapireddy, Hyun-Sik Yun, Woo-Ram Lee, Jae-Young Choi, **Byong-Hun Jeon**, Evaluation of *Chlorella vulgaris* YSW 004 growth rate, nutrient uptake, and fatty acid production at various concentration of piggery wastewater, Korean Society of Environmental Engineers 1st International Conference Green Environmental Technology 2011, BEXCO, Busan, Korea, August 21-24th, 2011.
237. Dong-Wan Cho, **Byong-Hun Jeon**, Yong-Je Kim, Ho-Cheol Song, The Role of Granular Ferric Hydroxide (GFH) in Reduction of Nitrate by Zero-Valent Iron, Korean Society of Environmental Engineers 1st International Conference Green Environmental Technology 2011, BEXCO, Busan, Korea, August 21-24th, 2011.
238. Woosik Jung, Sun-Joon Kim, Jae-Young Choi, **Byong-Hun Jeon**, Kinetic and mechanism of Fe (II) oxidation by dissolved oxygen in the aqueous phase, Korean Society of Environmental Engineers 1st International Conference Green Environmental Technology 2011, BEXCO, Busan, Korea, August 21-24th, 2011.
239. Eung-Do Gee, Woosik Jung, Hyun-Shik Yun, Jae-Young Choi, **Byong-Hun Jeon**, Removal of cobalt using nano carbon impregnated alginate bead, Korean Society of Environmental Engineers 1st International Conference Green Environmental Technology 2011, BEXCO, Busan, Korea, August 21-24th, 2011.
240. Hyun-Shik Yun, Min-Kyu Ji, Woo-Ram Lee, Young-Tae Park, Man-Jae Kwon, **Byong-Hun Jeon**, Jaeyoung Choi, Potential from the Algae in Acid Mine Drainage to Alternative Energy Convertion, Korean Society of Environmental Engineers 1st International Conference Green Environmental Technology 2011, BEXCO, Busan, Korea, August 21-24th, 2011.
241. Raghavulu SV, Jae-Hoon Hwang, **Byong -Hun Jeon**, Evaluate the influence of inorganic phosphate and micronutrients on biomass growth rate and lipid production using with microalgae, International Conference on Recent Advances in Mechanical Engineering, Dr. M.G.R Educational and Research Institute University Adayalampattu, Chennai – 600 095, Tamilnadu, India, April 21-22nd, 2011.
242. Jeong-A Choi, Jae-Hoon Hwang, Sang-Hoon Lee, **Byong-Hun Jeon**, Ultrasonic pretreatment of *Scenedesmus obliquus* YSW15 biomass to improve the fermentative ethanol production, Korean Society of environmental engineers Fall Conference, Songdo Convensir, December 02-03rd, 2010.
243. Jae-Hoon Hwang, Jeong-A Choi, Sang-Hoon Lee, **Byong-Hun Jeon**, Fermentative hydrogen production using ultrasonicated fresh biomass of *Scenedesmus obliquus* YSW15, Korean Society of environmental engineers Fall Conference, Songdo Convensir, December 02-03rd, 2010.
244. Yong-Tae Ahn, Dong-Wan Cho, Min-Kyu Ji, **Byong-Hun Jeon**, Efficient removal of nitrate and iron corrosion product in groundwater by combined system of Fe (0)/MF, Korean Society of environmental engineers Fall Conference, Songdo Convensir, December 02-03rd, 2010.
245. Woosik Jung, **Byong-Hun Jeon**, Influence of As (V) on the oxidation of Fe (II) by low concentration of dissolved oxygen, Korean Society of environmental engineers Fall Conference, Songdo Convensir, December 02-03rd, 2010.
246. Jae-Hoon Hwang, Jeong-A Choi, **Byong-Hun Jeon**, Resolution of Water Shortage in the Future Society: A New Way of Wastewater Treatment using Algae, *Chuncheon Global Water Forum*, 241-246, 2010.
247. Min-Kyu Ji, Hyun-Sik Yoon, Jae-Hoon Hwang, Jae-Young Choi, **Byong-Hun Jeon**, Nutrient removal and lipid production in a livestock wastewater by *Chlorella vulgaris* YSW-04, Korean Society of environmental engineers Fall Conference, Songdo Convensir, December 02-03rd, 2010.
248. Hyun-Sik Yoon, Min-kyu Ji, Woo-Ram Lee, Young-Tae Park, Jung-Seok Yang, Yon-Sik Sim, Man-

Hee Kang, **Byong-Hun Jeon**, Jae-Young Choi. Developing for reclamation of AMD through coating on the surface of pyrite using minerals, Korean Society of environmental engineers Fall Conference, Songdo Convensir, December 02-03rd, 2010.

249. Jae-Hoon Hwang, Jeong-A Choi, Jeong-Geol Na, Reda A.I. Abou-Shanab, You-Kwan Oh, **Byong-Hun Jeon**, Hydrogen production from sulfate and ferrous enriched wastewater, Asian Biohydrogen Symposium and APEC Advanced Bio-Hydrogen Technology Conference, Feng Chia University, Taichung, November 15-20th, 2010.
250. Min-Kyu Ji, Hyun-Sik Yoon, Eung-Do Ji, Woo-Ram Lee, Young-Tae Park, Jung-Seok Yang, Yon-Sik Shim, Man-Hee Kang, **Byong-Hun Jeon**, Jae-Young Choi. Developing for reclamation of AMD by coating on the surface of pyrite using chemicals, KSSGE Autumn conference, Hanyang University Seoul campus, October 14-15th, 2010.
251. Hyun-Shik Yun, Min-kyu Ji, Eun-Do Ji, Lee-Woo Ram, Young-Tae Park, Jung-Seok Yang, Yon-Sik Shim, Man-Hee Kang, **Byong-Hun Jeon**, Jae-Young Choi. Developing for reclamation of AMD through coating on the surface of pyrite using minerals, KSSGE Autumn conference, Hanyang University Seoul campus, October 14-15th, 2010.
252. Yeo-Joon Yoon, Yun-Young Hwang, Min-Kyu Ji, **Byong-Hun Jeon,** Joon-Wun Kang, Ozone-membrane hybrid process for arsenic removal in iron-containing water, EuroMed 2010 Desalination for Clean Water and Energy, Tel Aviv (Israel), October 3-7th, 2010.
253. Jae-Hoon Hwang, Jeong-A Choi, **Byong-Hun Jeon**, Resolution of water shortage in the future society: A new way of wastewater treatment using algae, Chuncheon Global Water Forum, Ladena resort, September 30th -October 1st, 2010.
254. R.A.I. Abou-Shanab**, Byong-Hun Jeon**, Characterization and molecular identification of biodiesel producing microalgae species isolated from livestock wastewater, Second International Conference on Contemporary Environmental Issues in Arid and Semi-Arid Regions, Bibliotheca Alexandrina, Egypt, July 03-05th, 2010.
255. Dong-Wan Cho, **Byong-Hun Jeon**, Young-Hun Kim, Ho-Cheol Song, Enhanced reduction of nitrate by zero valent iron in groundwater with activated red mud, Korean Society of environmental engineers Spring Conference, Jeju International Convention Center, May 06-07th, 2010.
256. Moonis Ali Khan, Seong-Wook Kim, R.A.I. Abou-Shanab, Amit Bhatnagar, Ho-Cheol Song, **Byong-Hun Jeon**, Adsorption studies of dichloromethane on some commercially available GACs: Effect of knetics, thermodynamics and competitive ions, Korean Society of environmental engineers Spring Conference, Jeju International Convention Center, May 06-07th, 2010.
257. Woosik Jung, Moonis Ali Khan, **Byong-Hun Jeon**, Reactions of As(V) with Fe(II) under the anoxic conditions, Korean Society of environmental engineers Spring Conference, Jeju International Convention Center, May 06-07th, 2010.
258. Sang-Hoon Lee, Moonis Ali Khan, Yong-Tae Ahn, **Byong-Hun Jeon**, Adsorption studies of MTBE on some commercially available GACs, Korean Society of environmental engineers Spring Conference, Jeju International Convention Center, May 06-07th, 2010.
259. Yong-Tae Ahn, Dong-Wan Cho, Min-Kyu Ji, Sang-Hoon Lee, **Byong-Hun Jeon**, Adsorption of nitrate onto $ZnCl_2$-treated GAC (Granular Activated Carbon), Korean Society of environmental engineers Spring Conference Conference, Jeju International Convention Center, May 06-07th, 2010.
260. Jae-Hoon Hwang, Jeong-A Choi, Min-Kyu Ji, Reda A.I. Abou-Shanab, **Byong-Hun Jeon**, Nitrogen and phosphate removal by microalgae from livestock wastewater: newly isolated freshwater microalgae, Korean Society of environmental engineers Spring Conference, Jeju International Convention Center, May 06-07th, 2010.
261. Jae-Hoon Hwang, Reda A.I. Abou-Shanab, I.A. Matter, **Byong-Hun Jeon**, Characterization and Identification of Lipid Producing Microalgal Species Isolated from Freshwater Lake and Livestock Wastewater, Korean Society of environmental engineers Spring Conference, Jeju International Convention Center, May 06-07th, 2010.
262. Min-Kyu Ji, Yong-Tae Ahn, Moonis Ali Khan, Ho-Cheol Song, Jae-Young Choi, **Byong-Hun Jeon**, Removal of nitrate and ammonium ions from livestock wastewater by hybrid systems: Zero valent iron (Fe^0) combined with adsorbents, Korean Society of environmental engineers Spring Conference, Jeju International Convention Center, May 06-07th, 2010.

263. Jeong-A Choi, Jae-Hoon Hwang, Reda A.I. Abou-Shanab, **Byong-Hun Jeon**, Fermentative hydrogen production from microalgae cultivated in wastewater, Korean Society of environmental engineers Spring Conference, Jeju International Convention Center, May 06-07th, 2010.
264. Woosik Jung, Moonis Ali Khan, **Byong-Hun Jeon**, Surface reactions of Fe (II) with As (V), The Korean Society of engineering, Geology Gyeongju TEMF Hotel, April 08-09th, 2010.
265. Yong-Tae Ahn, Woosik Jung, Min-Kyu Ji, Dong-Wan Cho, **Byong-Hun Jeon**, Nitrate removal from small scale water treatment system by a hybrid system of zero-valent iron combined with membrane, Korea Green Technology Forum, Seoul Education & Culture Center, March 08-10th, 2010.
266. Jae-Hoon Hwang, Jeong-A Choi, Reda A.I. Abou-Shanab, **Byong-Hun Jeon**, Feasibility of fermentative bio-hydrogen production from different organic wastes, the Korean Society for New and Renewable Energy Conference, Conference hall of Jeollabuk-do, November 25-27th, 2009.
267. Dong-Wan Cho, **Byong-Hun Jeon**, Moonis Ali Khan, Yong-Jae Kim, Ho-Cheol Song, Amendment of minerals in the reduction of nitrate reduction by zero-valent iron in groundwater, AWWA Water Quality Treatment Conference, Seattle (USA), November 25-27th, 2009.
268. Min-Kyu Ji, Yong-Tae Ahn, Seong-Wook Kim, Sang-Hun Lee, Amit Bhatnagar, Reda A.I. Abou-Shanab, Moonis Ali Khan, **Byong-Hun Jeon**, Performance evaluation of zero-valent iron hybrid systems for nitrate removal from aqueous solution, AWWA Water Quality Treatment Conference, Seattle (USA), November 25-27th, 2009.
269. Jae-Hoon Hwang, Jeong-A Choi, **Byong-Hun Jeon**, Fermentative hydrogen production from rotten wastes, KSEE, Kim Dae-Jung convention hall, November 25-27th, 2009.
270. Jeong-A Choi, Eva Kumar, Amit Bhatnagar, **Byong-Hun Jeon**, Perchlorate removal from water using Granular Ferric Hydroxide, KSEE, Kim Dae-Jung convention hall, November 25-27th, 2009.
271. Reda A.I. Abou-Shanab, **Byong-Hun Jeon**, Jae-Hoon Hwang, Algae-biofuel: Potential use and sustainable alternative green energy, the 2009 World Congress on power and energy engineering (WCPEE'09) Cairo, Egypt, October 5-8th, 2009.
272. Jeong-A Choi, Eva Kumar, Amit Bhatnagar, Kijung Paeng, **Byong-Hun Jeon**, Adsorptive removal of dissolved Perchlorate from water Using Granular Ferric Hydroxide (GFH), 지상무기학술대회, 대전 컨밴션센터, September 16th, 2009.
273. Jeong-A Choi, Eva Kumar, **Byong-Hun Jeon**, GFH를 이용한 perchlorate 흡착연구, Chuncheon Global Water Forum, Ladena resort, September 3-4th, 2009.
274. **Byong-Hun Jeon**, Reductive immobilization of As (V) with Fe, International symposium on Abandoned mine Remediation, KIST Gangneung Institute, August 24-26th, 2009.
275. Min-Kyu Ji, Yong-Tae Ahn, **Byong-Hun Jeon**, Nitrate removal from groundwater by a hybrid system of zero-valent iron combined with adsorbents, Songdo convensia, Incheon, Korea, August 18-21st, 2009.
276. Eva Kumar, Jeong-A Choi, Amit Bhatnagar, Ki-Jung Paeng, Jong-Chol Lee, **Byong-Hun Jeon**, Removal of Perchlorate from Water by Granular Ferric Hydroxide (GFH), the Korea-China-Japan Joint Ion Analysis Symposium III, Jeju Pacific Hotel, South Korea, June 10-12nd, 2009.
277. **Byong-Hun Jeon**, Eco Vision, 마을상수도의 질산성질소(NO_3-N)와 총 대장균군 동시 제거를 위한 영가철(Fe(0))과 분리막 조합공정 개발, 산학연 강원대회, 원주 아모르 컨벤션 센터, July 02nd, 2009.
278. 지민규, 안용태, 최영근, 노수홍, 이수철, 조동완, 정우식, Amit Bhatnagar, **전병훈**, 영가철 (Zero Valent Iron)과 충진제의 조합을 이용한 수중의 질산성 질소 제거, 대한환경공학회 2009 춘계학술연구발표회, 창원켄벤션센터, April 30th-May 1st, 2009
279. **전병훈**, 고태영, 이지훈, 윤진명, 김나경 정진욱, 다양한 흡착제를 이용한 지하수 중의 불소제거, 2008년 과학고 영재교육 내실화 지원사업 최종발표, 서울교육대학, February 05th, 2009.
280. Yang-Hun Choi, Eva Kumar, Amit Bhatnagar, Woosik Jung, **Byong-Hun Jeon**, Joon-Wun Kang, Removal of Bromate from Drinking Water by Granular Ferric Hydroxide (GFH), AWWA Water Quality Treatment Conference, Cincinnati (USA), November 15-20th, 2008.

281. **Byong-Hun Jeon**, 지하수 마을 상수도 시스템 확보를 위한 비소 및 질산성질소 제거의 GAC Filter 개발, 프론티어 연구 3단계 2차년도 단위과제 점검 회의, 한국 수자원공사 수자원연구원, October 24th, 2008.
282. Eva Kumar, Amit Bhatnagar, Min-Kyu Ji, Woosik Jung, Dong-Wan Cho, **Byong-Hun Jeon**, Removal of Fluoride From Water by Granular Ferric Hydroxide (GFH), 한국지하수토양환경학회 추계학술대회, 포항공과대학교, October 9-10th, 2008.
283. **Byong-Hun Jeon**, A study of geochemical processes of As (V) with Fe (II) the anoxic conditions, International symposium on Abandoned mine Remediation, KIST Gangneung Institute, October 7-9th, 2008.
284. 정우식, **전병훈**, 이상훈, 김선준, 최재영, 지민규, 조동완, 김성욱, 무산소 환경하에서의 2가철을 이용한 5가비소의 환원고정. 대한환경공학회 춘계 학술연구발표회, 울산대학교, May 1-2nd, 2008.
285. Amit Bhatnagar, **Byong-Hun Jeon,** Uranuim biogeochemistry: Focusing on interfacial redox reactions, the 1st Workshop on Radionuclide behavior in the Environment. Korea Atomic Energy Research Institute Daejeon, Korea May 20th, 2008.
286. Sang-Hun Lee, Sun-Joon Kim, Woosik Jung, **Byong-Hun Jeon**, Jae-Young Choi, Ju-In Ko, Amit Bhatnagar, Reductive immobilization of As (V) by Fe (II): Analysis of geochemical processes in the anaerobic condition environment, (사) 한국지구시스템공학회, 라마다프라자 제주 호텔, November 15-16th, 2007.
287. 최양훈, Amit Bhatnagar, 정연정, **전병훈**, 강준원, Granular Ferric Hydroxide (GFH) 를 이용한 Bromate 흡착 특성 연구. 한국물환경학회 추계학술대회, November 19-22nd, 2007.
288. Amit Bhatnagar, **Byong-Hun Jeon**, Min-Kyu Ji, Yang-Hun Choi, Woosik Jung, Joon-Won Kang, A comparative study of nitrate removal from aqueous solution using $ZnCl_2$ -treated granular activated carbon, Water Quality Technology Conference, North Carolina (USA), November 4-8th, 2007.
289. Amit Bhatnagar, **Byong-Hun Jeon**, Min-Kyu Ji, Woosik Jung, Modeling of the adsorption kinetic of nitrate onto $ZnCl_2$ treated granular activated carbon, (사) 한국지하수토양환경학회, 부경대학교, October 11th, 2007.
290. Yang-Hun Choi, Amit Bhatnagar, Byong-Soo Oh, Min-Kyu Ji, **Byong-Hun Jeon**, Joon-Won Kang, Removal of Nitrate in groundwater by GAC doped with $ZnCl_2$. 한국물환경학회 공동춘계학술발표회 초록집, 한국수자원공사 상하수도연구 교육센터, April 20th, 2007.
291. **Byong-Hun Jeon**, John M. Zachara1, Ravi K. Kukkadapu1, Alice C. Dohnalkova, Chongxuan Liu. Abiotic Tc (VII) Reduction by Fe (II)-Implications to Long-Term Tc Immobilization, (사) 한국지하수토양환경학회, KIST 강릉분원, April 12-13th, 2007.
292. Amit Bhatnagar, Min-Kyu Ji, Yang-Hun Choi, Dong-Wan Cho, Woosik Jung, **Byong-Hun Jeon**, Joon-Won Kang. Nitrate Removal from Water by Surface Modified Granular Activated Carbons: Equilibrium and Kinetic Studies, (사) 한국지하수토양환경학회, KIST 강릉분원, April 12-13th, 2007.
293. **Byong-Hun Jeon**, Chemical Reduction of U (VI) by Fe (II) at the Solid-Water Interface. 2006. Western Pacific Geophysics Meeting. Beijing Convention Center (BCC), Beijing, China, July 24-27th, 2006.
294. Chongxuan Liu, J.M. Zachara, **Byong-Hun Jeon**, Z. Wang, J. P. McKinley, J. K. Fredrickson, Microscopic mass transfer process and its influence on microbial reduction of sorbed uranium (VI) in subsurface sediments. 2006 Western Pacific Geophysics Meeting. Beijing Convention Center (BCC), Beijing, China, July 24-27th, 2006.
295. Chongxuan Liu, Zheming Wang, John M. Zachara, James K. Fredrickson, **Byong-Hun Jeon**, Paul D. Majors, James P. McKinley, and Steve M. Heald. Microscopic Mass Transfer and Its Influence on Microbial Reduction of U(VI). Annual ERSP (Environmental Remediation Science Program) PL Meeting, Warrenton, VA., April 3-5th, 2006.
296. John M. Zachara, Ravi K. Kukkadapu, Steve M. Heald, James P. McKinley, Alice C. Dohnalkova, James K. Fredrickson, **Byong-Hun Jeon**, Biogeochemical Coupling of Fe and Tc speciation in

subsurface sediments: Implication to long-term Tc immobilization, annual ERSP (Environmental Remediation Science Program) PL Meeting, Warrenton, VA., April 3-5th, 2006.

297. Steve M. Heald, John M. Zachara, **Byong-Hun Jeon**, James P. McKinley, Ravi Kukkadapu, and Dean Moore. XAFS Study of the Chemical and Structural States of Technetium in Fe (III) Oxide Co-precipitates: Implication to Long-Term Tc Immobilization. Annual ERSP (Environmental Remediation Science Program) PL Meeting, Warrenton, VA., April 3-5th, 2006.
298. Chongxuan Liu, Zheming Wang, Zachara, John M., Fredrickson, James K., **Byong-Hun Jeon**, Paul D., McKinley, James P., Heald, Steve M. Influence of Mass Transfer on U (VI) Microbial Reduction. Annual ERSP (Environmental Remediation Science Program) PL Meeting, Warrenton, VA., April 3-5th, 2006.
299. **Byong-Hun Jeon**, Chung, H-K. Abiological approach for the remediation of U (VI) contaminated subsurface, 2005 International Symposium on Radiation Safety Management. Korea Atomic Energy Research Institute, Daejeon, Korea, November 2-4th, 2005.
300. **Byong-Hun Jeon**, Zachara, J. M. Reductive immobilization of Tc (VII) at the solid-water interface. 2005 International Symposium on Radiation Safety Management. Korea Atomic Energy Research Institute, Daejeon, Korea, November 2-4th, 2005.
301. **Byong-Hun Jeon**, Zachara, J. M., Liu, C., Kukkadapu, R., Dohnalkova, A. Abiotic Tc (VII) reduction by Fe (II). 15th Annual Goldschmidt Conference, Moscow, Idaho, USA, May 20-25th, 2005.
302. Roden, E. E., **Byong-Hun Jeon** Biological versus chemical reduction of U (VI) at the solid-water interface. 104th General meeting of American Society for Microbiology (ASM). New Orleans, LA, USA, May 23-27th, 2004.
303. **Byong-Hun Jeon**, and Roden, E. E. Reductive Immobilization of U (VI) at the oxide-water Interface. 225th ACS National Meeting. New Orleans, LA, USA, May 23-27th, 2003.
304. **Byong-Hun Jeon**, Dempsey, B. A., and Burgos, W. D. Reactions of ferrous iron with iron oxides under an anoxic environment. Joint Conference of Mineral and Petroleum Engineering, Geo-Environmental Engineering and Geology, Hanyang University, Seoul, Korea, April 26-27th, 2002.
305. **Byong-Hun Jeon**, Dempsey, B. A., Burgos, W. D., and Royer, R. A. Rate and nature of reactions between hematite and Fe (II). 75th CSSS (Colloid and Surface Science Symposium). Carnegie Mellon University, Pittsburgh, Pennsylvania, June 10-13rd, 2001.
306. **Byong-Hun Jeon**, Dempsey, B. A., and Burgos, W. D. Adsorption of Fe (II) and Zn (II) onto hematite. CECG (Center for Environmental Chemistry and Geochemistry) symposium, Penn State University, University Park, March, 2001.
307. Dempsey, B. A., **Byong-Hun Jeon**, Burgos, W. D., and Royer, R. A. Adsorption of Fe (II) and Zn (II) onto ferric oxide. 74th CSSS (Colloid and Surface Science Symposium). Lehigh University, Bethlehem, Pennsylvania, June 10-21st, 2000.
308. Dempsey B. A., Roscoe H. C., **Byong-Hun Jeon**, and Ames B. A. Ferrous oxidation chemistry in passive abiotic systems for treatment of mine drainage. Geol. Soc. America National Meeting, Denver CO, October 25-28th, 1999.
309. **Byong-Hun Jeon**, Dempsey B. A. The characterization of iron oxide produced from the passive treatment of acid mine drainage. CECG symposium, Penn State University, University Park, March, 1999.
310. Dempsey B. A., Baldwin J., Fu F., **Byong-Hun Jeon,** Getting rid of water: Back to the basics. Proceedings of the WEF/AWWA Joint Residuals and Biosolids Management Conference, Charlotte NC, January 27-30th, 1999.
311. Dempsey B. A., Ames R. P., Ramanujam R. K., **Byong-Hun Jeon**, Hedin R. S., Field and laboratory calibration of a model predict performance of passive abiotic treatment for AMD. SE GSA Meeting, Charlston WV, March 29-31st, 1998.

INVITED PRESENTATION (Total 40)

1. **Byong-Hun Jeon**, Recovery of overfed-stalled anaerobic digesters through bioaugmentation with acclimatized microbial consortium, International conference on Biotechnology for Sustainable Bioresources and Bioeconomy, Indian Institute of Techonlogy, Guwahati, India, 7th-11th December,

2022.

2. **Byong-Hun Jeon**, Recovery of overfed-stalled anaerobic digesters through bioaugmentation with acclimatized microbial consortium, 2022, International conference on Emerging Trends in Bioscience and Chemical Technology, Matrika Auditorium SMVDU, Katra, India, 3rd – 5th December, 2022.
3. Lecture for energy using from waste resources and biomass. Invited by the graduate school of specialization for waste resources, Chungbuk National University. January, 2021.
4. **Byong-Hun Jeon**. Whole conversion of microalgae biomass to multiple biofuels through pretreatments and fermentations. School of Life Sciences in UNIST(Ulsan National Institute of Science and Technoloy, 울산과학기술원), 1st July 2020.
5. Vishal Chandanshive, Suhas Kadam, Mayur B Kurade, **Byong-Hun Jeon**, Jyoti Jadhav, Sanjay P. Govindwar. In-situ phytoremediation of textile effluent using Vetiveria zizanioides in constructed wetland/phytobeds. 257th ACS National Meeting & Exposition. Orlando, Florida, USA. 3rd April 2019.
6. **Byong-Hun Jeon,** Jiu-Qiang Xiong, Mayur B. Kurade, Microalgal remediation of pharmaceutical contaminants from water, Department of Life Science, Lanzhou University, Lanzhou, China. 15th January 2019.
7. **Byong-Hun Jeon,** Jiu-Qiang Xiong, Mayur B. Kurade, Microalgal remediation of pharmaceutical contaminants from water, The 4th international conference on contaminated land, ecological assessment and remediation (CLEAR), The Hong Kong Polytechnic University, Hongkong, China. 16-18th August 2018.
8. **Byong-Hun Jeon,** Bio-energy production and advanced wastewater treatment using microalgae, Korea Polar Research Institute, Incheon**,** 7th November, 2017.
9. **Byong-Hun Jeon,** Marwa M. El-Dalatony, El-Sayed Salama, Hoo Kim. Serial fermentation of carbohydrate and protein from microalgal biomass for bioalcohol production and subsequent conversion of lipid into biodiesel: A new approach, the 7th Korea CCUS international conference, Jeju, 8-10th February, 2017.
10. **Byong-Hun Jeon**, Recent progress in microalgal biomass production coupled with wastewater treatment for biofuel generation, The 13th U.S.-Korea Forum on Nanotechnology: Neuromorphic computing and Water & Energy Sustainability, Belle-Essence Hotel, Seoul, Korea, 26th September, 2016.
11. Marwa M. El-Dalatony, El-Sayed Salama, **Byong-Hun Jeon,** Repeated-batch fermentation of microalgal biomass utilizing immobilized yeast cells for bioethanol production, The 13th U.S.-Korea Forum on Nanotechnology: Neuromorphic computing and Water & Energy Sustainability, Belle-Essence Hotel, Seoul, Korea, 26th September, 2016.
12. **Byong-Hun Jeon**, Sung-Eun Chang. Influence of As (V) on the oxidation of Fe (II) by low concentration of dissolved oxygen. Dept. of Civil & Environmental Engineering, the Pennsylvania State University, 26th August, 2016.
13. **Byong-Hun Jeon,** Bioaccumulation and biodegradation of emerging contaminants by microalga, *Chlamydomonas mexicana*, Department of Chemical Engineering, POSTECH, Korea, August 28th, 2015.
14. **Byong-Hun Jeon,** Geochemical interactions of As (V), Fe (II) and Fe (III) under the subsurface environments, Jaesung Civil Engineering Building, Hanyang University, Korea, July 10th, 2015.
15. **Byong-Hun Jeon,** Advanced wastewater treatment and bioethanol production using microalgae**,** Dept. of Life science, Hanyang University, Korea, March 18th, 2015.
16. **Byong-Hun Jeon**, AMD (Acid Mine Drainage) Occurrence and Treatment, Peru-Korea Mine Reclamation Cooperation Seminar 2014, MIRECO and the General Bureau of Mining Environmental Affairs of the Ministry of Energy and Mines of Peru, Novotel Hotel, Lima-Peru, November 11th, 2014.
17. **Byong-Hun Jeon**, My Brain Pool with Dr. Reda, a good Egyptian Fellow, The Korean Federation of Science and Technology Societies, the K-Hotel, Seoul, Korea, November 11th, 2014.
18. **Byong-Hun Jeon**, Opprotunities for simultaneous Biofuel production & wastewater treatement using algae. Invited presentation, School of Biological Science and Technology, Yonsei University, Wonju, Korea, April 3rd, 2014.

19. **Byong-Hun Jeon**, Technology trend of Biofuel production & wastewater treatement based on BT Doosan Heavy Industries & Construction Co., Ltd, October 7th, 2013.
20. **Byong-Hun Jeon**, Advanced wastewaer treatment and bioethanol production using microalgae, Department of Chemical & Biomolecular Engineering, KAIST, Daejeon, Korea, July 29th, 2013.
21. **Byong-Hun Jeon**, Fermentative bioenergy from micro-algal biomass, Zhejiang University, February 18-19th, 2013.
22. **Byong-Hun Jeon**, Microalgae: Opportunity for advanced wastewster treatment and biofuel production, City of scientific research and technological application, Borg EI Arab city, Alexandria, February 3rd, 2013.
23. **Byong-Hun Jeon**, Influence of As (V) on oxidation of Fe (II) by low concentration of dissolved oxygen (DO), Molecular Environmental Science Group, Biosciences Devision, Argonne National Laboratory, May, 2012.
24. **Byong-Hun Jeon**, Microalgae: Opportunities for advanced wastewater treatment and biofuels, Kappe Senimar, Dept. of Civil & Environmental Engineering, the Pennsylvania State University, January 25th, 2012.
25. **Byong-Hun Jeon**, Multiple energy recovery and carbon control (MERCC) in wastewater treatment process, Green Technology Commercialization Seminar, Hotel Inter-Burgo Daegu, November 30th, 2010.
26. **Byong-Hun Jeon**, The algae way, the greener way: Algae cultivation using wastewater for bio-energy recovery, CO_2 sequestration, pollutants treatment and water reuse, Dept. Environmental and Chemical Engineering, Gangneung-Wonju National University, September 29th, 2010.
27. **Byong-Hun Jeon**, Advances in Groundwater and Surface Water Science & Technology, Ara room and Mirinae room at IS-Geo of Korea Institute of Geoscience and Mineral Resources, Daejeon, Korea, Auguest 26-29th, 2010.
28. **Byong-Hun Jeon**, 환경단체의 역할과 발전방향, Korea Eco-Love 21, AW Convention Hall, Seoul, December 21st, 2009.
29. **Byong-Hun Jeon**, The smart algae plantation using wastewater: Multiple bio-energy recovery, CO_2 control and persistent organic pollutants treatment, Korea Institute of Energy Research, July 9th, 2009.
30. **Byong-Hun Jeon**, John M. Zachara. Reductive Immobilization of Tc (VII) at the Solid-Water Interfaces Invited presentation, Korea Society of Economic and Environmental Geology, Bexco, Busan, April 22-24th, 2009.
31. **Byong-Hun Jeon**, Reductive Immobilization of Tc (VII) at the Solid-Water Interfaces Invited presentation, Korea Atomic Energy Research Institute Daejeon, Korea April 29th, 2008.
32. **Byong-Hun Jeon**, Environmental Engineering: Current status and future business. Invited presentation, Dept. of Geo-Environmental System Engineering, Hanyang University, Seoul, Korea, October 6th, 2005.
33. **Byong-Hun Jeon**, Biological and chemical remediation of U (VI) contaminated soils and groundwaters, Invited presentation, Dept. of Geo-environmental Science, Yonsei University, Seoul, Korea, March 6th, 2005.
34. **Byong-Hun Jeon**, Remediation of U (VI) contaminated soils and groundwaters: Biological and chemical methods, Invited seminar, Department of Environmental Engineering, Yonsei University, Wonju, Korea, March 4th, 2005.
35. **Byong-Hun Jeon**, Reductive immobilization of Uranium at the solid-water interface: Investigation of chemical versus biological processes, Invited presentation, Department of Civil and Environmental Engineering, The Duke University. Durham, NC, USA, March 26th, 2004.
36. **Byong-Hun Jeon**, Reduction of U (VI) at the solid-water interface: Biological versus chemical pathway, Invited seminar, EMSL Division, Pacific Northwest National Laboratory, WA, USA, February 12th, 2004.
37. **Byong-Hun Jeon**, In situ remediation of U (VI) contaminated soils and ground waters: Biological versus chemical pathway, Invited seminar, Department of Civil and Environmental Engineering, The KAIST, Daejeon, Korea, January 27th, 2004.
38. **Byong-Hun Jeon**, Reductive immobilization of U (VI) at the oxide-water interface. Invited

Presentation, Environmental Research Division, Argonne National Laboratory, IL, USA, August 5th, 2003.

39. **Byong-Hun Jeon**, Current research on U (VI) contaminated soils. Invited presentation, Dept. of Urban Geo-Environmental Engineering, Seoul National University, Seoul, Korea, September 26th, 2002.
40. **Byong-Hun Jeon**, Current studies on bioremediation of contaminated soil by heavy metals, radionuclides, and organics. Invited presentation, Dept. of Geo-Environmental System Engineering, Hanyang University, Seoul, Korea, May 1st, 2002.

REPORT (Non-Refereed)

1. 전병훈, Windmill을 활용한 지하수 지중정화 기술 고도화(+이용 장치(무동력 폭기) 장치 개발, R&D 3차년도 보고서, 2022.-
2. 전병훈, Windmill을 활용한 지하수 지중정화 기술 고도화(+이용 장치(무동력 폭기) 장치 개발, R&D 2차년도 보고서, 2021.
3. 전병훈, Windmill을 활용한 지하수 지중정화 기술 고도화(+이용 장치(무동력 폭기) 장치 개발, R&D 1차년도 보고서, 2020.
4. 전병훈, Microbiome Meta-omics 기반 Lignocellulosic 바이오매스의 혐기병합소화 생물공정플랫폼 개발, R&D 3차년도 보고서, 2022.
5. 전병훈, Microbiome Meta-omics 기반 Lignocellulosic 바이오매스의 혐기병합소화 생물공정플랫폼 개발, R&D 2차년도 보고서, 2021.
6. 전병훈, Microbiome Meta-omics 기반 Lignocellulosic 바이오매스의 혐기병합소화 생물공정플랫폼 개발, R&D 1차년도 보고서, 2020.
7. 전병훈, 급속 열분해 및 초임계에탄올 업그레이딩 공정을 통한 초목계 바이오매스로부터 신바이오디젤 생산 기술개발, R&D 2차년도 보고서, 2022.
8. 전병훈, 급속 열분해 및 초임계에탄올 업그레이딩 공정을 통한 초목계 바이오매스로부터 신바이오디젤 생산 기술개발, R&D 1차년도 보고서, 2021.
9. 전병훈, 300kW 이하 건설기계 노후엔진의 재제조 기술 및 전자제어 후처리장치 개발을 통한 Tier-4 배출가스 저감기술 개발, R&D 3차년도 보고서, 2022.
10. 전병훈, 300kW 이하 건설기계 노후엔진의 재제조 기술 및 전자제어 후처리장치 개발을 통한 Tier-4 배출가스 저감기술 개발, R&D 2차년도 보고서, 2021.
11. 전병훈, 300kW 이하 건설기계 노후엔진의 재제조 기술 및 전자제어 후처리장치 개발을 통한 Tier-4 배출가스 저감기술 개발, R&D 1차년도 보고서, 2020.
12. **Byong-Hun Jeon,** Field demonstration of sorptive removal of arsenic from mine drainage, Mine Reclamation Corporation (MIRECO), R&D Final Report, 2017.
13. **Byong-Hun Jeon,** Field demonstration of sorptive removal of arsenic from mine drainage, Mine Reclamation Corporation (MIRECO), R&D 1st Year Final Report, 2017.
14. **Byong-Hun Jeon**, Green bioenergy production using algae, Support for Senior Researchers, National Research Foundation of Korea, R&D Final Report, 2016.
15. **전병훈**, 시안오염광미내 시안제거 및 정화기술 개발, 한국광해관리공단, 광해방지기술개발사업 최종보고서, 2016.
16. **전병훈**, 반월공단 내 공장폐수에 함유되어 있는 시안화물의 효율적인 처리를 위한 단위공정 개선,

안산녹색환경지원센터, 환경기술개발사업 최종보고서, 2016.

17. **Byong-Hun Jeon**, Removal of Total Organic Carbon (TOC) and hazadus contaminants including odor & norovirus using Biological Activated Carbon (BAC), Eco-Smart Waterworks System, Korea Water Resourcers Corporation, R&D 3rd Report, 2014.
18. **Byong-Hun Jeon**, Removal of volatile organic pollutants from water by hybrid sorbents and microbial degradation, Global Research Laboratory, R&D 6th Report, 2014.
19. **Byong-Hun Jeon**, Development of resource recycling with mine tailings in piolet-scale plant, Mine Reclamation Corporation, Report, 2014.
20. **Byong-Hun Jeon**, Green bioenergy production using algae, Support for Senior Researchers, National Research Foundation of Korea, R&D 1st Final Report, 2014.
21. **Byong-Hun Jeon**, Removal of Total Organic Carbon (TOC) and hazadus contaminants including odor & norovirus using Biological Activated Carbon (BAC)., Eco-Smart Waterworks System, Korea Water Resourcers Corporation, R&D 2nd Report, 2013.
22. **Byong-Hun Jeon**, Green bioenergy production using algae, Support for Senior Researchers, National Research Foundation of Korea, R&D 3rd Final Report, 2013.
23. **Byong-Hun Jeon**, Removal of volatile organic pollutants from water by hybrid sorbents and microbial degradation, Global Research Laboratory, R&D 5th Report, 2013.
24. Seung-Yon Cho, Yong-Chil Seo, **Byong-Hun Jeon**, Hyunseok Roh, Donghee Park, Joon-Wun Kang, Simultaneous Control Technologies for Multi-Pollutants in Multi-Phase Media, BK21 7th Report, 2013.
25. **Byong-Hun Jeon**, The studies on the effective methods for conversion and removal of low concentration AP, Korea Institute for Defense Analyses, Report, 2012.
26. **Byong-Hun Jeon**, Green bioenergy production using algae, Support for Senior Researchers, National Research Foundation of Korea, R&D 2nd Report, 2012.
27. **Byong-Hun Jeon**, Removal of Total Organic Carbon (TOC) and hazadus contaminants including odor & norovirus using Biological Activated Carbon (BAC)., Eco-Smart Waterworks System, Korea Water Resourcers Corporation, R&D 1st Report, 2012.
28. **Byong-Hun Jeon**, Removal of volatile organic pollutants from water by hybrid sorbents and microbial degradation, Global Research Laboratory, R&D 4th Report, 2012.
29. Seung-Yon Cho, Yong-Chil Seo, **Byong-Hun Jeon**, Joon-Wun Kang Simultaneous Control Technologies for Multi-Pollutants in Multi-Phase Media, BK21 6th Report, 2012.
30. **Byong-Hun Jeon**, Woosik Jung, Yong-tae Ahn, Gyooum Kim, Joon-hyeong Park, 2011, Nitrate Treatment Technology for the Small Scale Water System, SWRRC Technical Report TR 2011-35.
31. Seung-Yon Ch bo, Yong-Chil Seo, **Byong-Hun Jeon**, Joon-Wun Kang Simultaneous Control Technologies for Multi-Pollutants in Multi-Phase Media, BK21 5th Report, 2011.
32. **Byong-Hun Jeon**, A feasibility study of water treatment facilities in Ham-Tae (Sorokgol) mine site, Mine Reciamation Corpation, R&D Report, 2011.
33. **Byong-Hun Jeon**, Green bioenergy production using algae, Support for Senior Researchers, National Research Foundation of Korea, R&D 1st Report, 2011.
34. **Byong-Hun Jeon**, Removal of volatile organic pollutants from water by hybrid sorbents and microbial degradation, Global Research Laboratory, R&D 3rd Report, 2011.
35. Seung-Yon Cho, Yong-Chil Seo, **Byong-Hun Jeon**, Joon-Wun Kang Simultaneous Control Technologies for Multi-Pollutants in Multi-Phase Media, BK21 4th Report, 2010.
36. **Byong-Hun Jeon**, Massive microalgae production for biofuels, Korea Institute Of Energy Research, R&D Report, 2010.
37. **Byong-Hun Jeon**, Removal of volatile organic pollutants from water by hybrid sorbents and microbial degradation, Global Research Laboratory, R&D 2nd Report, 2010.
38. **Byong-Hun Jeon**, Development of small scale water treatment system for TN & TP removal using combined chemical reduction(ZVI) and co-precipitation(struvite) method livestock waste water, Small & Medium Business Administration R&D Program, 8/2010.
39. **Byong-Hun Jeon**, Development of small scale water treatment system for nitrate & arsenic treatment Sustainable water resources research center, 21c Frontier R&D Program, 2/2010.

40. **Byong-Hun Jeon**, Development of remediation and management technology for arsenic contaminated soil, Mine Reclamation Corporation, 1/2010.
41. **Byong-Hun Jeon**, Removal of volatile organic pollutants from water by hybrid sorbents and microbial degradation, Global Research laboratory, R&D 1st Report, 2009.
42. **Byong-Hun Jeon**, Development of small scale water treatment system for nitrate & arsenic treatment Sustainable water resources research center, 21c Frontier R&D Program, 2/2009.
43. Yong-Chil Seo, **Byong-Hun Jeon**, Seung-Yon Cho, Joon-Wun Kang Simultaneous Control Technologies for Multi-Pollutants in Multi-Phase Media, BK21 3rd Report, 2009.
44. Yong-Chil Seo, **Byong-Hun Jeon**, Seung-Yon Cho, Joon-Wun Kang Simultaneous Control Technologies for Multi-Pollutants in Multi-Phase Media, BK21 2nd Report, 2008.
45. **Byong-Hun Jeon**, Development of small scale water treatment system for nitrate & arsenic treatment Sustainable water resources research center, 21c Frontier R&D Program, 2/2008.
46. Yong-Chil Seo, **Byong-Hun Jeon**, Seung-Yon Cho, Joon-Wun Kang, Simultaneous Control Technologies for Multi-Pollutants in Multi-Phase Media, BK21 1st Report, 2007.
47. **Byong-Hun Jeon**, Advanced Water treatment system by ozone-filtration hybrid process, 중소기업청, 8/2006-10/ 2006.
48. Kelly, S. D., Kemner, K. M., Boyanov, M. I., O'Loughlin, E. J., **Byong-Hun Jeon**., Barnett, M. O., Burgos, W. D., Dempsey, B. A., Roden, E. E. Comparison of U Valence State Ra Determined from U L_3-Edge XANES to EXAFS Measurements, in Advanced Photon Source Activity Report 2003-2004. Argonne National Laboratory, IL, USA.

GenBank SUBMISSION

72. Metagenome, ncbi.public, s3.us-east-1. Bioproject PRJNA723971, Experiment SRX10684159 SRR14329344, 2020, https://www.ncbi.nlm.nih.gov/Traces/study/?acc=PRJNA723971
71. Metagenome, ncbi.public, s3.us-east-1. Bioproject PRJNA723971, Experiment SRX10684158 SRR14329345, 2020, https://www.ncbi.nlm.nih.gov/Traces/study/?acc=PRJNA723971
70. Metagenome, ncbi.public, s3.us-east-1. Bioproject PRJNA723971, Experiment SRX10684157 SRR14329346, 2020, https://www.ncbi.nlm.nih.gov/Traces/study/?acc=PRJNA723971
69. Metagenome, ncbi.public, s3.us-east-1. Bioproject PRJNA723971, Experiment SRX10684156 SRR14329347, 2020, https://www.ncbi.nlm.nih.gov/Traces/study/?acc=PRJNA723971
68. **Byong-Hun Jeon**, Shouvik Saha, El-Sayed Salama, Hoo Kim, Sungeun Chang, Mayur B Kurade, Paraclostridium bifermentants partial 16s rRNA gene, isolate HYU, GenBank accession# KX101075, 2016, https://www.ncbi.nlm.nih.gov/nuccore/KX101075
67. **Byong-Hun Jeon**, Sang-Hoon Lee, Jae-Hoon Hwang, Jeong-A Choi, *Rhodococcus sp*., partial 28S rRNA gene, isolate YSPW01, GenBank accession# KJ496302, 2014, http://blast.ncbi.nlm.nih.gov
66. **Byong-Hun Jeon**, Sang-Hoon Lee, Jae-Hoon Hwang, Jeong-A Choi, Rhodococcus sp., partial 28S rRNA gene, isolate YSPW02, GenBank accession# KJ496303, 2014, http://blast.ncbi.nlm.nih.gov
65. **Byong-Hun Jeon**, Sang-Hoon Lee, Jae-Hoon Hwang, Jeong-A Choi, Rhodococcus sp., partial 28S rRNA gene, isolate YSPW03, GenBank accession# KJ496304, 2014, http://blast.ncbi.nlm.nih.gov
64. **Byong-Hun Jeon**, Min-Kyu Ji, EL-Sayed Salama, *Micractinium reisseri* 28S rRNA gene, strain YSW16, GenBank accession# HE863711, 2012, http://blast.ncbi.nlm.nih.gov.
63. **Byong-Hun Jeon**, Min-Kyu Ji, EL-Sayed Salama, *Chlamydomonas reinhardtii* 28S rRNA gene, strain YSW17, GenBank accession# HE863712, 2012, http://blast.ncbi.nlm.nih.gov.
62. **Byong-Hun Jeon**, Min-Kyu Ji, EL-Sayed Salama, *Chlamydomonas reinhardtii* 28S rRNA gene, strain YSW18, GenBank accession# HE863713, 2012, http://blast.ncbi.nlm.nih.gov.
61. Jae-Young Choi, Young-Tae Park, Hyun-Sik Yun, Min-Kyu Ji, Su-Nam Kim, **Byong-Hun Jeon**, *Nephroselmis sp.* KGE2 partial 28S rRNA gene, strain KGE2, GenBank accession# HE861888, 2012.
60. Jae-Young Choi, Young-Tae Park, Hyun-Sik Yun, Min-Kyu Ji, Su-Nam Kim, **Byong-Hun Jeon**, *Micractinium sp.* KGE4 partial 28S rRNA gene, strain KGE4, GenBank accession# HE861889, 2012.
59. Jae-Young Choi, Young-Tae Park, Hyun-Sik Yun, Min-Kyu Ji, Su-Nam Kim, **Byong-Hun Jeon**, *Scenedesmus obliquus* partial 28S rRNA gene, strain KGE12, GenBank accession# HE861890, 2012.

58. Jae-Young Choi, Young-Tae Park, Hyun-Sik Yun, Min-Kyu Ji, Su-Nam Kim, **Byong-Hun Jeon**, *Chlorococcum oleofaciens* partial 28S rRNA gene, strain KGE14, GenBank accession# HE861891, 2012.
57. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Scenedesmus obliquus*, partial 28S rRNA gene, isolate YSR007, GenBank accession# FR751165, 2011, http://blast.ncbi.nlm.nih.gov.
56. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Scenedesmus obliquus*, partial 28S rRNA gene, isolate YSR010, GenBank accession# FR751166, 2011, http://blast.ncbi.nlm.nih.gov.
55. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Scenedesmus obliquus*, partial 28S rRNA gene, isolate YSW013, GenBank accession# FR751167, 2011, http://blast.ncbi.nlm.nih.gov.
54. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Scenedesmus obliquus*, partial 28S rRNA gene, isolate YSL012, GenBank accession# FR751168, 2011, http://blast.ncbi.nlm.nih.gov.
53. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Scenedesmus obliquus*, partial 28S rRNA gene, isolate YSR016, GenBank accession# FR751169, 2011, http://blast.ncbi.nlm.nih.gov.
52. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Scenedesmus obliquus*, partial 28S rRNA gene, isolate YSR019, GenBank accession# FR751170, 2011, http://blast.ncbi.nlm.nih.gov.
51. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Scenedesmus obliquus*, partial 28S rRNA gene, isolate YSL014, GenBank accession# FR751171, 2011, http://blast.ncbi.nlm.nih.gov.
50. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Scenedesmus obliquus*, partial 28S rRNA gene, isolate YSR020, GenBank accession# FR751172, 2011, http://blast.ncbi.nlm.nih.gov.
49. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Scenedesmus obliquus*, partial 28S rRNA gene, isolate YSL015, GenBank accession# FR751173, 2011, http://blast.ncbi.nlm.nih.gov.
48. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Scenedesmus obliquus*, partial 28S rRNA gene, isolate YSR022, GenBank accession# FR751174, 2011, http://blast.ncbi.nlm.nih.gov.
47. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Scenedesmus obliquus*, partial 28S rRNA gene, isolate YSR008, GenBank accession# FR751175, 2011, http://blast.ncbi.nlm.nih.gov.
46. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Scenedesmus obliquus*, partial 28S rRNA gene, isolate YSR009, GenBank accession# FR751176, 2011, http://blast.ncbi.nlm.nih.gov.
45. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Scenedesmus obliquus*, partial 28S rRNA gene, isolate YSR018, GenBank accession# FR751177, 2011, http://blast.ncbi.nlm.nih.gov.
44. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Scenedesmus obliquus*, partial 28S rRNA gene, isolate YSW009, GenBank accession# FR751178, 2011, http://blast.ncbi.nlm.nih.gov.
43. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Scenedesmus obliquus*, partial 28S rRNA gene, isolate YSL019, GenBank accession# FR751179, 2011, http://blast.ncbi.nlm.nih.gov.
42. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Scenedesmus obliquus*, partial 28S rRNA gene, isolate YSW012, GenBank accession# FR751180, 2011, http://blast.ncbi.nlm.nih.gov.
41. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Tribonema aequale*, partial 28S rRNA gene, isolate YSR006, GenBank accession# FR751181, 2011, http://blast.ncbi.nlm.nih.gov.
40. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Tribonema aequale*, partial 28S rRNA gene, isolate YSW001, GenBank accession# FR751182, 2011, http://blast.ncbi.nlm.nih.gov.
39. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Tribonema aequale*, partial 28S rRNA gene, isolate YSR011, GenBank accession# FR751183, 2011, http://blast.ncbi.nlm.nih.gov.
38. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Tribonema aequale*, partial 28S rRNA gene, isolate YSR012, GenBank accession# FR751184, 2011, http://blast.ncbi.nlm.nih.gov.
37. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Tribonema aequale*, partial 28S rRNA gene, isolate YSR013, GenBank accession# FR751185, 2011, http://blast.ncbi.nlm.nih.gov.
36. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Tribonema aequale*, partial 28S rRNA gene, isolate YSW010, GenBank accession# FR751186, 2011, http://blast.ncbi.nlm.nih.gov.
35. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Chlorella vulgaris*, partial 28S rRNA gene, isolate YSL001, GenBank accession# FR751187, 2011, http://blast.ncbi.nlm.nih.gov.
34. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Micractinium reisseri*, partial 28S rRNA gene, isolate YSL004, GenBank accession# FR751188, 2011, http://blast.ncbi.nlm.nih.gov.
33. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Micractinium reisseri*, partial 28S rRNA gene, isolate YSW002, GenBank accession# FR751189, 2011, http://blast.ncbi.nlm.nih.gov.

32. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Uronema belkae*, partial 28S rRNA gene, isolate YSL010, GenBank accession# FR751190, 2011, http://blast.ncbi.nlm.nih.gov.
31. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Micractinium reisseri*, partial 28S rRNA gene, isolate YSL006, GenBank accession# FR751191, 2011, http://blast.ncbi.nlm.nih.gov.
30. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Micractinium reisseri*, partial 28S rRNA gene, isolate YSW003, GenBank accession# FR751192, 2011, http://blast.ncbi.nlm.nih.gov.
29. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Chlamydomonas mexicana*, partial 28S rRNA gene, isolate YSL008, GenBank accession# FR751193, 2011, http://blast.ncbi.nlm.nih.gov.
28. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Micractinium reisseri*, partial 28S rRNA gene, isolate YSL011, GenBank accession# FR751194, 2011, http://blast.ncbi.nlm.nih.gov.
27. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Micractinium reisseri*, partial 28S rRNA gene, isolate YSW005, GenBank accession# FR751195, 2011, http://blast.ncbi.nlm.nih.gov.
26. **Byong-Hun Jeon**, Min-Kyu Ji, Jae-Hoon Hwang, *Chlorella vulgaris*, partial 28S rRNA gene, isolate YSL016, GenBank accession# FR751196, 2011.
25. **Byong-Hun Jeon**, Min-Kyu Ji, Hyun-Sik Yun, Jae-Young Choi, Su-Nam Kim, *Scenedesmus obliquus*, partial 28S rRNA gene, isolate YSL009, GenBank accession# FR751197, 2011, http://blast.ncbi.nlm.nih.gov.
24. **Byong-Hun Jeon**, Min-Kyu Ji, Hyun-Sik Yun, Jae-Young Choi, Su-Nam Kim, *Scenedesmus obliquus*, partial 28S rRNA gene, isolate YSW011, GenBank accession# FR751198, 2011, http://blast.ncbi.nlm.nih.gov.
23. **Byong-Hun Jeon**, Min-Kyu Ji, Hyun-Sik Yun, Jae-Young Choi, Su-Nam Kim, *Scenedesmus obliquus*, partial 28S rRNA gene, isolate YSR015, GenBank accession# FR751199, 2011, http://blast.ncbi.nlm.nih.gov.
22. **Byong-Hun Jeon**, Min-Kyu Ji, Hyun-Sik Yun, Jae-Young Choi, Su-Nam Kim, *Tribonema aequale*, partial 28S rRNA gene, isolate YSL013, GenBank accession# FR751200, 2011, http://blast.ncbi.nlm.nih.gov.
21. **Byong-Hun Jeon**, Min-Kyu Ji, Hyun-Sik Yun, Jae-Young Choi, Su-Nam Kim, *Tribonema aequale*, partial 28S rRNA gene, isolate YSR021, GenBank accession# FR751201, 2011, http://blast.ncbi.nlm.nih.gov.
20. **Byong-Hun Jeon**, Min-Kyu Ji, Hyun-Sik Yun, Jae-Young Choi, Su-Nam Kim, *Chlorella vulgaris*, partial 28S rRNA gene, isolate YSR023, GenBank accession# FR751202, 2011, http://blast.ncbi.nlm.nih.gov.
19. **Byong-Hun Jeon**, Min-Kyu Ji, Hyun-Sik Yun, Jae-Young Choi, Su-Nam Kim, *Micractinium reisseri*, partial 28S rRNA gene, isolate YSL017, GenBank accession# FR751203, 2011, http://blast.ncbi.nlm.nih.gov.
18. **Byong-Hun Jeon**, Min-Kyu Ji, Hyun-Sik Yun, Jae-Young Choi, Su-Nam Kim, *Chlorella vulgaris*, partial 28S rRNA gene, isolate YSR014, GenBank accession# FR751204, 2011, http://blast.ncbi.nlm.nih.gov.
17. R.A.I., Abou-Shanab, Su-Nam Kim, **Byong-Hun Jeon**, *Scenedesmus obliquus*, partial 28S rRNA gene, isolate YSW014, GenBank accession# HM103381, 2010, http://blast.ncbi.nlm.nih.gov
16. R.A.I., Abou-Shanab, **Byong-Hun Jeon**, *Scenedesmus obliques* partial 28S rRNA gene, isolate YSW015, GenBank accession# HM103382, 2010, http://blast.ncbi.nlm.nih.gov
15. R.A.I., Abou-Shanab, **Byong-Hun Jeon**, *Scenedesmus obliquus*, partial 28S rRNA gene, isolate YSR017, GenBank accession# HM103383, 2010, http://blast.ncbi.nlm.nih.gov
14. R.A.I., Abou-Shanab, **Byong-Hun Jeon**, *Scenedesmus obliquus*, partial 28S rRNA gene, isolate YSR018, GenBank accession# HM103384, 2010, http://blast.ncbi.nlm.nih.gov
13. R.A.I., Abou-Shanab and **Byong-Hun Jeon**, *Nitzschia cf. pusilla*, partial 28S rRNA gene, isolate YSW006. GenBank accession# GU732414, 2010, http://blast.ncbi.nlm.nih.gov
12. R.A.I., Abou-Shanab and **Byong-Hun Jeon**, *Scenedesmus obliquus*, partial 28S rRNA gene, isolate YSL002, GenBank accession# GU732415, 2010, http://blast.ncbi.nlm.nih.gov
11. R.A.I., Abou-Shanab and **Byong-Hun Jeon**, *Chlamydomonas pitschmannii*, partial 28S rRNA gene, isolate YSL003, GenBank accession# GU732416, 2010, http://blast.ncbi.nlm.nih.gov
10. R.A.I., Abou-Shanab and **Byong-Hun Jeon**, *Chlorella vulgaris*, partial 28S rRNA gene, isolate

YSW004, GenBank accession# GU732417, 2010, http://blast.ncbi.nlm.nih.gov
9. R.A.I., Abou-Shanab and **Byong-Hun Jeon**, *Scenedesmus obliquus*, partial 28S rRNA gene, isolate YSR004, GenBank accession# GU732418, 2010, http://blast.ncbi.nlm.nih.gov
8. R.A.I., Abou-Shanab and **Byong-Hun Jeon**, *Scenedesmus obliquus*, partial 28S rRNA gene, isolate YSR001, GenBank accession# GU732419, 2010, http://blast.ncbi.nlm.nih.gov
7. R.A.I., Abou-Shanab and **Byong-Hun Jeon**, *Chlamydomonas mexicana*, partial 28S rRNA gene, isolate YSL007, GenBank accession# GU732420, 2010, http://blast.ncbi.nlm.nih.gov
6. R.A.I., Abou-Shanab, I.A., Matter, Su-Nam Kim, **Byong-Hun Jeon**, *Scenedesmus obliquus*, partial 28S rRNA gene, isolate YSR002, GenBank accession# GU732421, 2010, http://blast.ncbi.nlm.nih.gov
5. R.A.I., Abou-Shanab, I.A., Matter, Su-Nam Kim, **Byong-Hun Jeon**, *Pseudochlorella* sp. CCAP 211/1A, partial 28S rRNA gene, isolate YSR003, GenBank accession# GU732422, 2010, http://blast.ncbi.nlm.nih.gov
4. R.A.I., Abou-Shanab, I.A. Matter, Su-Nam Kim, **Byong-Hun Jeon**, *Scenedesmus obliquus*, partial 28S rRNA gene, isolate YSL005, GenBank accession# GU732423, 2010, http://blast.ncbi.nlm.nih.gov
3. R.A.I., Abou-Shanab, Jaeyoung Choi, Jae-Hoon Hwang, **Byong-Hun Jeon**, *Ourococcus multisporus*, partial 28S rRNA gene, isolate YSW008, GenBank accession# GU732424, 2010, http://blast.ncbi.nlm.nih.gov
2. R.A.I., Abou-Shanab, Jaeyoung Choi, Jae-Hoon Hwang, **Byong-Hun Jeon**, *Micractinium pusillum*, partial 28S rRNA gene, isolate YSW007, GenBank accession# GU732425, 2010, http://blast.ncbi.nlm.nih.gov
1. R.A.I., Abou-Shanab, Jaeyoung Choi, Jae-Hoon Hwang, **Byong-Hun Jeon**, *Scenedesmus obliquus*, partial 28S rRNA gene, isolate YSR005, GenBank accession# GU732426, 2010, http://blast.ncbi.nlm.nih.gov

RESEARCH PROPOSAL

Funded Research (Ongoing)

1. 급속 열분해 및 초임계에탄올 업그레이딩 공정을 통한 초목계 바이오매스로부터 신바이오디젤 생산 기술개발, 정부지원연구, ㈜베스텍엔터프라이즈. 692,800,000 원(2021.05.03~2024.12.31)
2. Microbiome Meta-omics 기반 Lignocellulosic 바이오매스의 혐기병합소화 생물공정플랫폼 개발, 정부지원연구, (재)한국연구재단. 380,000,000원/year, (2020.03.01~2025.2.28).
3. CO_2의 광전기화학 환원을 통한 고부가가치 화학물진 전환을 위한 MOF-유도체 개발. 정부지원연구, (재)한국연구재단. 81,460,000원, (2020.09.01~2024.12.31).

Funded Research (Completed)

1. Windmill을 활용한 지하수 지중정화 기술 고도화(+이용 장치(무동력 폭기) 장치 개발)를 위한 요소기술 실험. 정부지원연구, 주식회사 지엔에스엔지니어링. 74,900,000원, (2020.05.01~2022.12.31).
2. 300kW 이하 건설기계 노후엔진의 재제조 기술 및 전자제어 후처리장치 개발을 통한 Tier-4 배출가스 저감기술 개발. 정부지원연구, 주식회사 크린어스. 156,300,000원, (2020.05.01~2022.12.31)
3. ICT/IoT 기반 저품위 유용광물 리칭 시스템 구축 및 현장실증, 산업기술혁신사업, 에너지기술개발사업, 한국에너지기술평가원. 517,412,000 원/4year, (2018.05.01 ~ 2021. 04. 30).
4. 2020 사회맞춤형 산학협력 선도대학(LINC+) 육성사업, 정부지원연구, (재)한국연구재단. 3,168,884,350원, (2020.03.01~2021.12.31).

5. 혐기성소화 안정화제 생산 기술 및 신경회로망형 (Deep Belief Network) 인공지능 기반의 통합 운영/제어 플랫폼 개발, 산업기술혁신사업, 에너지기술개발사업, 한국에너지기술평가원. 457,700,000 원/4year, (2017.12.01 ~ 2021. 11. 30).
6. 2020 과학문화활동지원사업, 대학연구활동지원, 한양대학교 산학협력단. 120,000,000원, (2020.03.01~2021.02.28).
7. 2020 연구실안전관리지원사업, 대학연구활동지원, 한양대학교 산학협력단. 120,000,000원, (2020.03.01~2021.02.28).
8. 원유 및 파라핀 정밀 분석을 통한 파라핀 억제제 조성 비율 평가, 정부지원연구, 한국지질자원연구원. 17,556,390, (2020.10.08~2021.01.31).
9. 토양세정기술 고도화를 위한 세정제 주입/회수 기술개발 , 환경기술개발사업, 한국환경산업기술원. 313,100,000원/3year, (2018.06.01 ~ 2020.12.31).
10. 생산유전 원유 및 파라핀 정밀 분석, 정부지원연구, 한국지질자원연구원. 17,556,390, (2019.11.08~2019.12.23).
11. 쌍용레미콘 골재 선별/파쇄업장 인근 주요 유해인자 측정 및 분석 용역, 쌍용레미콘 주식회사, 산업체지원연구. 33,000,000원, (2019.10.01~2019.11.30).
12. 지능형 바이오가스 시설 생태공학적 분석 및 데이터 해석, ㈜골든엔지니어링, 산업체지원연구. 35,200,000원, (2019.09.01~2019.11.30).
13. 주택용 신재생 융복합 시스템의 몽골 진출을 위한 타당성 조사, 지엔원에너지 주식회사, 산업체지원연구. 19,800,000원, (2019.06.01~2019.11.30).
14. 2019 사회맞춤형 산학협력 선도대학(LINC+) 육성사업, 정부지원연구, (재)한국연구재단. 3,666,609,204원, (2019.03.01~2020.12.31).
15. 생산유전 원유 및 파라핀 정밀 분석, 정부지원연구, 한국지질자원연구원. 19,558,000원, (2018.09.28~2018.12.26).
16. 극한지 고점성 원유의 생산 및 플랜트 기술 개발, 국가대형R&D지원사업. 10,000,000원, (2018.06.01 ~ 2019.11.30).
17. 2018 사회맞춤형 산학협력 선도대학(LINC+) 육성사업, 정부지원연구, (재)한국연구재단. 112,780,685원, (2018.03.01~2019.02.28).
18. (BK21 PLUS 6차년도)친환경 에너지자원 융합 창의 인재 양성, 교육인력양성사업, (재)한국연구재단. 227,457,502원, (2018.03.01~2019.02.28).
19. 합성 미생물 컨소시엄을 이용한 하폐수/지표수 내 신규오염물질(ECs) 고도처리, 두산연강재단. 15,000,000 원, (2017.12.01 ~ 2018.11.02).
20. 친환경 에너지자원 융합 창의 인재 양성 분야의 연구 활성화 및 논문장려를 위한 방안 연구, 교내일반연구사업, 한양대학교. 88,300,000원, (2017.10.23~2018.10.22).
21. 2017년도 2학기 석박사통합과정 연구비, 교내일반연구사업, 한양대학교. 151,897,600원, (2017.08.01~2018.07.31).
22. 에너지혁신연구센터, 한양대학교 산학협력단. 3,000,000원, (2017.05~2018.04).
23. 미세조류를 이용한 최대 에너지수율 전과정 연속과정 연속 발효·추출 공정 플랫폼 개발. 미래창조과학부, 한국연구재단. 480,000,000 원/3year. (2017.03.01~2020.2.29).
24. (BK21 PLUS 5차년도)친환경 에너지자원 융합 창의 인재 양성, 교육인력양성사업, (재)한국연

구재단. 220,633,035원, (2017.03.01~2018.02.28).

25. 유분 폐기물 FOG의 병합소화를 통한 고효율 바이오가스의 생산 기술개발, 산업기술혁신사업, 에너지기술개발사업, 신재생에너지핵심기술사업(RCMS), 한국에너지기술평가원. 697,700,000원/3year, (2016.12.01 ~ 2019.11.30).
26. 간접탄화처리 효율증진 연구, 중소기업청(정부지원연구). 79,300,000 원/year (2016.08~2018.08).
27. 에너지혁신연구센터, 한양대학교 산학협력단. 3,000,000원, (2016.06~2017.05).
28. 반월공단 내 공장폐수에 함유되어 있는 시안화물의 효율적인 처리를 위한 단위 공정 개선, 환경부 안산녹색환경지원센터. 50,000,000원, 05/2016-12/2016.
29. (BK21 PLUS 4차년도)친환경 에너지자원 융합 창의 인재 양성, 교육인력양성사업, (재)한국연구재단. 199,328,000원, (2016.03.01~2017.02.28).
30. 시안오염광미내 시안제거 및 정화기술 개발, 산업통상자원부, 한국광해 관리공단. 179,360,000원/2year, (2015.08~2016.11).
31. 분말활성탄이 고정화된 다공성 알긴산 겔 복합체를 이용한 중금속 및 유기오염물질 동시 제거 기술 개발, 안산시연구개발사업, 안산녹색환경지원센터. 50,000,000원/year, (2015.04~2015.12).
32. 광물자원 선광*제련 산학 협력연구단, 자원개발특성화대학사업, 산학 협력 연구단 복합동광(저품위, 황. 산화 복합동광) 처리기술개발. 산업기술혁신사업, (사)해외자원개발협회. 118,466,000 원/year, (2014.10.01 ~ 2019.02.28).
33. 광물찌꺼기의 성상분석 및 용출 특성평가, 광해방지기술개발사업, 한국광해관리공단, 80,000,000원/2year, (2014.06~2015.12).
34. 조류를 적용한 지속가능한 바이오 에너지 생산, Mid-career Researcher Program, National Research Foundation of Korea. 611,000,000원/3year, (2013.11~2016.10).
35. 자원개발특성화대학사업 복합동광 (저품위, 황산화 복합동광) 및 유연탄 처리기술개발, 산업통상자원부. 54,500,000원/year, (2014.10~2019.02).
36. 한국수자원공사/BAC (Biological Activated Carbon)을 적용한 총유기탄소 및 유해오염물 제거, 환경부. 84,000/year, (Available Fund to BHJ: 1/3), (2011.08~2014.04).
37. 폐자원 및 바이오매스에너지화 특성화 대학원 사업, 환경부. 총액 535,000,000원/year, (Available Fund to BHJ: 1/8), (2013.04~2014.08).
38. Global Research Laboratory (GRL), Removal of volatile organic pollutants from water by hybrid sorbents and microbial degradation, Ministry of Education, Science and Technology. 25,000,000/year, (2008.10~2014.06).
39. Technologies for Hazardous Pollutants Control and Resource Recycling, BK21 plus, National Research Foundation of Korea. 498,400,000/year, (Available fund to BHJ: 1/6), (2013.03~2014.08).
40. 자원환경공학 특임교수 Start-up Fund, 교내일반연구사업, 한양대학교. 2000,000,000원, (2014.07.30~2015.8.31)
41. 미세조류 활용한 수처리시스템 개발, 지식경제부. 111,112,000 원, (2013.06~2014.05).
42. 고품질 바이오연료 생산을 위한 수소첨가탈산소 최적 촉매 및 전처리 기술 개발, 한국에너지기술연구원. 25,000,000원/년, 5차년도, (2013.01~2013.10).
43. Green bioenergy production using algae, Support for Senior Researchers, National Research Foundation of Korea. 198,000,000/year, (2010.09~2013.08).

44. Simultaneous Control Technologies for Multi-Pollutants in Multi-Phase Media, BK21, National Research Foundation of Korea. 350,000,000/year, (2006.02~2013.02).
45. Brainpool Program, 조류를 적용한 지속가능한 바이오 에너지 생산, 한국과학기술단체총연합회. 29,500,000원/6개월, (2012.07~2012.12), (우수 성과 과제로 선정).
46. 기본사업 연구, 고품질 합성디젤 생산을 위한 탈산소 최적 촉매기술 및 바이오연료 생산용 미세조류개발, 한국에너지기술연구원. 55,000,000원/10개월 (2012.01~2012.10).
47. 암모늄 퍼클로레이트 처리기술 연구, 국방부. 30,000,000원/년, (2010.07~2012.06).
48. 광해방지기술개발사업, 비소 오염 토양의 개량(정화)기술 및 관리 방안 개발, 한국광해관리공단. 200,000,000원/년, (2009.04~2011.11).
49. 기본사업 연구, 고품질 합성디젤 생산을 위한 탈산소 최적 촉매기술 및 바이오연료 생산용 미세조류개발, 한국에너지기술연구원. 55,000,000원/10개월, (2011.01~2011.10).
50. A feasibility study of water treatment facilities in Ham-Tae (sorokgol) mine site, Mine Reciamation Corpation. 108,320,000/year, (2010.06~2011.05).
51. 21st Frontier research project, Development of small scale water treatment system for nitrate and arsenic treatment, Ministry of Education, Science and Technology. 50,000,000/year, (2007.04~2011.03).
52. 강릉자체기반고유사업, 토양 내 비소의 환원고정 처리 기술 개발, 교육과학기술부. 20,000,000원/년, (2010.01~2010.12).
53. 기본사업 연구, 조류 이용 바이오연료 생산 요소기술 개발, 한국에너지기술연구원. 25,000,000원/10개월, (2010.01~2010.10).
54. 신진교수지원사업 (기초과학), 2가 철을 이용한 5가 비소의 환원·고정 처리, 한국학술진흥재단. 20,000,000원/년, (2008.07~2010.06).
55. 산학연 공동기술개발사업, 축산폐수 처리수의 총 질소와 총 인의 제거를 위한 영가철 및 struvite 침전 조합기술 개발, 중소기업청. 56,250,000원/12개월, (2009.06~2010.05).
56. 강릉자체기반고유사업, 2가 철을 이용한 비소의 환원고정 처리 기술개발, 교육과학기술부. 15,000,000원/년, (2009.01~2009.12).
57. 우수 이공계 학부학생 연구참여 프로그램 (URP), 마을상수도 오염의 문제점: 활성탄을 이용한 질산성질소의 제거, 한국과학재단. 20,000,000원/년, (2008.09~2009.08).
58. 과학고 영재교육 내실화 지원사업 (R&E), 다양한 흡착제를 이용한 지하수 중의 불소 제거, 한국과학재단. 9,500,000원/5개월, (2008.10~2009.02).
59. 산학연 공동기술개발사업, 마을상수도의 질산성질소와 총대장균군 제거를 위한 영가철과 침지식 막여과 조합공정 개발, 중소기업청. 55,800,000원/10개월, (2008.08~2009.05).
60. 쌍전거성아시아광산 광미 및 침출수 처리방안 연구, 광해방지사업단. 100,000,000원/년, (2006.05~2007.08).
61. 오존/여과 조합형 고도상수 처리시스템 개발, 강원도 중소기업청. 20,000,000원/년, (2006.06.01~2006.08.31).
62. 2가철을 이용한 비소처리, 한양대학교. 100,000,000원/년, (2006).
63. 무산소 환경구현 장비구입, 연세대학교 환경공학과. 35,000,000원/년, (2006).
64. 서용칠, **<u>전병훈</u>**, 육군 과학화 전투훈련단 지하수오염/복원 계획의 타당성검토, 춘천지방법원. 5,100,000 원/년, (2005.10~2006.09).
65. 토양오염원으로 방사능 폐기물 [Tc (VII)]의 지화학적 거동, 연세대학교. 10,000,000원/년,

(2005.09.01~2006.08.31).

66. Burgos, B., Dempsey, B. A., Roden, E. E. Yeh, J. Reaction-based reactive transport modeling of iron reduction and uranium immobilization at Area 2 of the NABIR research center. Total research grant: $1,350,000. US DOE NABIR program (8/2004-7/2007)–**Byong-Hun Jeon** was a project collaborator at PNNL with research fund of $75,000 for 3 years.

GRADUATE STUDENT & POST DOC ADVISED

1. Assistant Professor
    1. Do-Hyeon Kim, 2017-present
    2. Mayur B. Kurade, 2015-present
    3. Bikram Basak, 2018-present
    4. Rahul Kumar, 2015-2016
    5. Akhil N. Kabra, 2014-2015
    6. Muthukannan Satheesh Kumar, 2014.09-2014.12

2. Research professor
    1. Saniay P. Govindwar, 2017-2021
    2. Reda A.I. Abou-Shanab, 2012-2012
    3. Kim, Hyun-Chul, 2012- 2012

3. Post doctor
    1. Hoo-Kim, 2023-present
    2. Nikita Yadab, 2023-present
    3. Rahul Tanpure, 2022-present
    4. Yong-Tae, Ahn, 2022-present
    5. Ramesh Kumar, 2020-present
    6. Shouvik Saha, 2019-present
    7. Yusuf, 2022-2023
    8. Gamal Abdelaziz, 2022-2022
    9. Subbaiah Muthu Prabhu, 2020-2022
    10. Geon-Soo, Ha, 2021-2022
    11. Alam Venugopal Narendra Kumar, 2021-2022
    12. Swapnil M. Patil, 2018-2022
    13. Niraj Rane, 2018-2022
    14. Prakash Krishnaiah, 2020-2021
    15. Jiu-Qiang Xiong, 2019-2020
    16. Rakshmipathiraj Pandian 2019-2020
    17. Marwa M. Eldalatony, 2017-2019
    18. Salama, El-Sayed, 2016-2018
    19. Woosik Jung, 2014-2015
    20. Muthukannan Satheesh Kumar, 2013-2014
    21. Jae-Hoon Hwang, 2013-2013

22. Akhil N. Kabra, 2013-2014
23. Veer Raghavulu Sapireddy, 2010-2012
24. Moonis Ali Khan, 2009-2010
25. Reda A.I. Abou-Shanab, 2009-2010
26. Amit Bhatnagar, 2006-2009

4. Ph.D.

1. Muhammad Monjurul Islam, Ph.D., 2022-present
2. Pyo, Seong-Hyeon, 2021-present
3. Lioa Zaigyo, ph.D., 2020-present
4. Liu Chengjia, ph.D., 2020-present
5. An, Hyun-Jo, ph.D., 2019-present
6. Kwon, Ju-Hyuk, ph.D., 2019-present
7. Ho, Kim., ph.D., advisor, 2015-2022
8. Tae-Hyun Cha, ph.D., referee, 2022
9. Geon-Soo, Ha, Ph.D., advisor, 2021
10. Wonajae Lee, Ph.D., referee, 2021
11. Jiu-Qiang Xiong, Ph.D., advisor, 2019
12. Shouvik Saha, Ph.D., advisor, 2019
13. Il-seung Yang, Ph.D., advisor, 2018
14. Marwa M. Eldalatony, Ph.D., advisor, 2017
15. Vellingiri, Kowsalya, Ph. D., advisor, 2016
16. Salama, El-Sayed, Ph. D., advisor, 2016
17. Lee, Sang-Hun, Ph. D., advisor, 2016
18. An, Yong-Tae, Ph. D., advisor, 2016
19. Cho, Dong-Wan, Ph. D., advisor, 2014
20. Jung, Woosik, Ph. D., advisor, 2014
21. Ji, Min-Kyu, Ph. D., advisor, 2014
22. Hwang, Jae-Hoon, Ph. D., advisor, 2013
23. Jung, Kyung-Won, Ph. D., referee, 2011
24. Lee, Sang-Hun, Ph. D., referee, 2011
25. Jung, Yeon-Jung, Ph. D, referee, 2010
26. Choi, Young-Keun, Ph. D., referee, 2010
27. Son, Byong-Yong, Ph. D., referee, 2009
28. Oh, Byong-Soo, Ph. D., referee, 2008
29. Lee, Jae-Kwang, Ph. D., referee, 2007

5. M.S.

1. Seol, Kil-Hong, 2022- present
2. Jo, Sun-Ho, 2022-present
3. Lee, Chan-Yeong, 2022-present

4. Kim, Gyeong-Uk, advisor, 2022
5. Kang, Dong Ho, advisor, 2020.
6. Chang, Sung-Eun, advisor, 2018.
7. Kwon, Oh-Hun, M.S., advisor, 2015.
8. Lee, Minsun, M.S., advisor, 2015.
9. Lee, Woo-Ram, M.S., advisor, 2013.
10. Kim, Yong-Rim, M.S., advisor, 2013.
11. Yang, Ji-En, M.S., referee, 2013.
12. Cho, Eun-Ha, M.S., referee, 2013
13. Moon, Jong-Hyuk, M.S., referee, 2013
14. Bong Guiseon, M.S., referee, 2013
15. Jung, Kwang-Sik, M.S., referee, 2013
16. Gee, Eung-Do, M.S., advisor, 2013
17. Choi, Jeong-A, M.S., advisor, 2012
18. Ahn, Yong-Tae, M.S., advisor, 2011
19. Park, Moon-Ki, M.S., referee, 2011
20. Lee, Ja-Youn, M.S., referee, 2011
21. Cho, Myung-Soo, M.S., referee, 2011
22. Park, Jong-Pill, M.S., referee, 2011
23. Yoo, MalGoBalGaeBitNaLa, M.S., referee, 2011
24. Choi, Woo-Seung, M.S., refere, 2011
25. Choi, Young-Ki, M.S., advisor, 2011
26. Kim, Seong-Wook, M.S., advisor, 2010
27. Hwang, Yun-Young, M.S., referee, 2010
28. Kim, Wan-Gi, M.S., referee, 2010
29. Ji, Min-Kyu, M.S., advisor, 2009
30. Kim, Sun-Hong, M.S., referee, 2009
31. Kim, Do-Hyun, M.S., referee, 2009
32. Park, He-Jin, M.S., referee, 2008
33. Min, Bo-Ra, M.S., referee, 2008
34. Lee, Do-Kyoung, M.S., referee, 2007
35. Lim, Yong-Soon, M.S., referee, 2007
36. Lee, Ji-Sun, M.S., referee, 2007
37. Choi, Eun-Young, M.S., referee, 2007
38. Kim, Yoon-Tae, M.S., referee, 2006
39. Lee, Han-Bun, M.S., referee, 2006
40. Park, Sang-Yeon, M.S., referee, 2006
41. Kim, Yoeng-Hee, M.S., referee, 2006

Google scholar
http://scholar.google.com/citations?view_op=list_works&hl=en&gmla=AJsN-F4TEDBX2roDIk5rcE_Z_nPiOh1a-LwD7FMdrbL1uxWegd7P1fwmF202abn1p0PNeearJRd09BU-

8EAZBeb4s35PzkE0RxSGA3lnNaK2eQPK-KWcapg&user=2YmXC3IAAAAJ