Lee, Duu Jong （李篤中）
Professor

B.S. in Chemical Engineering
National Taiwan University, 1984
Ph.D. in Chemical Engineering
National Taiwan University, 1990

Research and Professional Interests

Biomass resource & utilization
bio hydrogen & methane fermentation
landfill bioreactor
Biological micro reactors
fractal structure and transport
Microbial community tracking
Water treatment and reuse
coagulation and NOMs
membrane bioreactor
Enhanced phase change heat transfer
boiling, freezing, and thawing

Journal Papers

1. Q. G. Zhang, J. J. Hu and **D.J. Lee**, "Aerobic granular processes: Current research trends", *Bioresource Technology*, 210, 74 80, 2016 (SCI,EI)

2. Y. J. Chang, J. Y. Lai and **D.J. Lee**, "Thermodynamic parameters for adsorption equilibrium of heavy metals and dyes from wastewaters: Research updated", *Bioresource Technology*, 222, 513 516, 2016 (SCI,EI)

3. Y. Wang, S. H. Ho, C. L. Cheng, W. Q. Guo, D. Nagarajan, N. Q. Ren, **D.J. Lee** and J. S. Chang, "Perspectives on the feasibility of using microalgae for industrial wastewater treatment", *Bioresource Technology*, 222, 485 497, 2016 (SCI,EI)

4. C. L. Wan, Y. G. Shen, S. Chen, X. Liu, G. M. Liu, J. Y. Lai and **D.J. Lee**, "Microstructural strength deterioration of aerobic granule sludge under organic loading swap", *Bioresource Technology*, 221, 671 676, 2016 (SCI,EI)

5. C. Chen, W. Guo, H. H. Ngo, **D.J. Lee**, K. L. Tung, P. Jin, J. Wang and Y. Wu, "Challenges in biogas production from anaerobic membrane bioreactors", *Renewable Energy*, 98, 120 134, 2016 (SCI,EI)

6. A. Pandey, **D.J. Lee**, S. K. Khanal and R. R. Singhania, "International Conference on New Horizons in Biotechnology (NHBT 2015)", *Renewable Energy*, 98, 1, 2016 (SCI,EI)

7. A. Wosman, Y. Lu, S. Sun, X. Liu, C. Wan, Y. Zhang, **D.J. Lee** and J. Tay, "Effect of operational strategies on activated sludge's acclimation to phenol, subsequent aerobic granulation, and accumulation of polyhydoxyalkanoates", *Journal of Hazardous Materials*, 317, 221 228, 2016(Nov), (SCI,EI)

8. G. Kumar, A. Mudhoo, P. Sivagurunathan, D. Nagarajan, A. Ghimire, C. H. Lay, C. Y. Lin, **D.J. Lee** and J. S. Chang, "Recent insights into the cell immobilization technology applied for dark fermentative hydrogen production", *Bioresource Technology*, 219, 725 737, 2016 (SCI,EI)

9. C.C. Cheng, I. H. Lin, J.K. Chen, Z.S. Liao, J.J. Huang, **D.J. Lee** and Z. Xin,

"Nucleobase functionalized supramolecular micelles with tunable physical properties for efficient controlled drug release", *Macromolecular Bioscience*, 16(10), 1415 1421, 2016 (SCI,EI)

10. G. D. Zhang, **D.J. Lee** and F. Q. Cheng, "Treatment of domestic sewage with anoxic/oxic membrane less microbial fuel cell with intermittent aeration", *Bioresource Technology*, 218, 680 686, 2016 (SCI,EI)

11. Y. Y. Chen, S. P. Ju and **D.J. Lee**, "Aerobic granulation of protein rich granules from nitrogen lean wastewaters", *Bioresource Technology*, 218, 469 475, 2016 (SCI,EI)

12. J. J. Hu, Q. G. Zhang, Y. Y. Chen and **D.J. Lee**, "Drying and recovery of aerobic granules", *Bioresource Technology*, 218, 397 401, 2016 (SCI,EI)

13. W. Y. Cheah, T. C. Ling, P. L. Show, J. C. Juan, J. S. Chang and **D.J. Lee**, "Cultivation in wastewaters for energy: A microalgae platform", *Applied Energy*, 179, 609 625, 2016 (SCI,EI)

14. C. G. Whiteley and **D.J. Lee**, "Computer simulations of the interaction of human immunodeficiency virus (HIV) aspartic protease with spherical gold nanoparticles: implications in acquired immunodeficiency syndrome (AIDS)", *Nanotechnology*, 27(36), 2016 (SCI,EI)

15. B. Ashe, L. N. Nguyen, F. I. Hai, **D.J. Lee**, J. P. van de Merwe, F. D. L. Leusch, W. E. Price and L. D. Nghiem, "Impacts of redox mediator type on trace organic contaminants degradation by laccase: Degradation efficiency, laccase stability and effluent toxicity", *International Biodeterioration & Biodegradation*, 113, 169 176, 2016 (SCI,EI)

16. B. Liang, D. Y. Kong, J. C. Ma, C. Q. Wen, T. Yuan, **D.J. Lee**, J. Z. Zhou and A. J. Wang, "Low temperature acclimation with electrical stimulation enhance the biocathode functioning stability for antibiotics detoxification", *Water Research*, 100, 157 168, 2016 (SCI,EI)

17. W. Y. Cheah, T. C. Ling, J. C. Juan, **D.J. Lee**, J. S. Chang and P. L. Show, "Biorefineries of carbon dioxide: From carbon capture and storage (CCS) to bioenergies production", *Bioresource Technology*, 215, 346 356, 2016 (SCI,EI)

18. T. Bhaskar, J. S. Chang, S. Khanal, **D.J. Lee**, S. Venkata Mohan and B. E. Rittmann, "Waste Biorefinery – Advocating Circular Economy", *Bioresource Technology*, 215, 1, 2016 (SCI,EI)

19. C. C. Cheng, J. K. Chen, Y. T. Shieh and **D.J. Lee**, "Supramolecular core shell nanoparticles for photoconductive device applications", *Nanotechnology*, 27(32), 2016 (SCI,EI)

20. Y. C. Lai, Y. R. Chang, M. L. Chen, Y. K. Lo, J. Y. Lai and **D.J. Lee**, "Poly(vinyl alcohol) and alginate cross linked matrix with immobilized Prussian blue and ion exchange resin for cesium removal from waters", *Bioresource Technology*, 214, 192 198, 2016 (SCI,EI)

21. C. H. Tan, C. Y. Chen, P. L. Show, T. C. Ling, H. L. Lam, **D.J. Lee** and J. S. Chang, "Strategies for enhancing lipid production from indigenous microalgae isolates", *Journal of the Taiwan Institute of Chemical Engineers*, 63, 189 194, 2016 (SCI,EI)

22. C. S. Liu, K. Han, **D.J. Lee** and Q. L. Wang, "Simultaneous biological removal of

phenol, sulfide, and nitrate using expanded granular sludge bed reactor", *Applied Microbiology and Biotechnology*, 100(9), 4211 4217, 2016 (SCI,EI)

23. X. Liu, S. P. Sun, B. Y. Ma, C. Zhang, C. L. Wan and **D.J. Lee**, "Understanding of aerobic granulation enhanced by starvation in the perspective of quorum sensing", *Applied Microbiology and Biotechnology*, 100(8), 3747 3755, 2016 (SCI,EI)

24. C. C. Cheng, **D.J. Lee**, Z. S. Liao and J. J. Huang, "Stimuli responsive single chain polymeric nanoparticles towards the development of efficient drug delivery systems", *Polymer Chemistry*, 7(40), 6164 6169, 2016 (SCI,EI)

25. C. Wan, S. Chen, L. Wen, X. Liu, **D.J. Lee** and X. Yang, "Biosynthesis, characterization and potentiality of lipopeptides produced by Bacillus flexus S1 without inductive carbon sources", *RSC Advances*, 6(88), 85074 85082, 2016, (SCI,EI)

26. C. C. Cheng, Y. L. Chu, C. W. Chu and **D.J. Lee**, "Highly efficient organic inorganic electroluminescence materials for solution processed blue organic light emitting diodes", *Journal of Materials Chemistry C*, 4(27), 2016, (SCI,EI)

27. C. C. Cheng, Y. S. Wang, J. K. Chen and **D.J. Lee**, "Supramolecular electrospun nanofibers with high conductivity at ultra low carbon nanotube content", *Journal of Materials Chemistry C*, 4(23), 5207 5213, 2016, (SCI,EI)

28. C. C. Cheng and **D.J. Lee**, "Supramolecular assembly mediated lithium ion transport in nanostructured solid electrolytes", *RSC Advances*, 6(44), 38223 38227, 2016, (SCI,EI)

29. C. C. Cheng, H. W. Liao, J. K. Chen, **D.J. Lee** and Z. Xin, "New transparent poly(L lactide acid) films as high performance bio based nanocomposites", *RSC Advances*, 6(28), 23949 23955, 2016, (SCI,EI)

30. L. Gao, F. Q. Dong, Q. W. Dai, G. Q. Zhong, U. Halik and **D.J. Lee**, "Coal tar residues based activated carbon: preparation and characterization", *Journal of the Taiwan Institute of Chemical Engineers*, 63, 166 169, 2016 (SCI,EI)

31. Q. G. Zhang, J. J. Hu and **D.J. Lee**, "Microbial fuel cells as pollutant treatment units: Research updates", *Bioresource Technology*, 217, 121 128, 2016(Oct), (SCI,EI)

32. G. D. Zhang, Z. Y. Wu, F. Q. Cheng, Z. Min and **D.J. Lee**, "Thermophilic digestion of waste activated sludge coupled with solar pond", *Renewable Energy*, 98, 142 147, 2016(Dec), (SCI,EI)

33. Q. G. Zhang, J. J. Hu and **D.J. Lee**, "Biogas from anaerobic digestion processes: Research updates", *Renewable Energy*, 98, 108 119, 2016(Dec), (SCI,EI)

34. C. C. Cheng, F. C. Chang, W. Y. Kao, S. M. Hwang, L. C. Liao, Y. J. Chang, M. C. Liang, J. K. Chen and **D.J. Lee**, "Highly efficient drug delivery systems based on functional supramolecular polymers: In vitro evaluation", *Acta Biomaterialia*, 33, 194 202, 2016 (SCI,EI)

35. X. J. Xu, C. Chen, H. L. Guo, A. J. Wang, N. Q. Ren and **D.J. Lee**, "Characterization of a newly isolated strain Pseudomonas sp C27 for sulfide oxidation: Reaction kinetics and stoichiometry", *Scientific Reports*, 6, 2016 (SCI,EI)

36. C. S. Liu, J. Xu, **D.J. Lee**, D. Y. Yu and L. H. Liu, "Denitrifying sulfide removal process on high tetracycline wastewater", *Bioresource Technology*, 205, 254 257, 2016 (SCI,EI)

37. C. C. Cheng, F. C. Chang, J. H. Wang, J. K. Chen, Y. C. Yen and **D.J. Lee**, "Functionalized graphene nanomaterials: new insight into direct exfoliation of graphite with supramolecular polymers", *Nanoscale*, 8(2), 723 728, 2016, (SCI,EI)

38. L. H. Liu, T. Y. Chou, C. Y. Lee, **D.J. Lee**, A. Su and J. Y. Lai, "Performance of freshwater sediment microbial fuel cells: Consistency", *International Journal of Hydrogen Energy*, 41(7), 4504 4508, 2016 (SCI,EI)

39. C. S. Liu, D. F. Zhao, W. J. Ma, Y. D. Guo, A. J. Wang, Q. L. Wang and **D.J. Lee**, "Denitrifying sulfide removal process on high salinity wastewaters in the presence of Halomonas sp", *Applied Microbiology and Biotechnology*, 100(3), 1421 1426, 2016 (SCI,EI)

40. L. H. Liu, **D.J. Lee**, A. J. Wang, N. Q. Ren, A. Su and J. Y. Lai, "Isolation of Fe(III) reducing bacterium, Citrobacter sp LAR 1, for startup of microbial fuel cell", *International Journal of Hydrogen Energy*, 41(7), 4498 4503, 2016 (SCI,EI)

41. C. Y. Chen, Jesisca, C. Y. Hsieh, **D.J. Lee**, C. H. Chang and J. S. Chang, "Production, extraction and stabilization of lutein from microalga Chlorella sorokiniana MB 1", *Bioresource Technology*, 200, 500 505, 2016 (SCI,EI)

42. J. Yan, S. K. Chou, U. Desideri and **D.J. Lee**, "Transition of clean energy systems and technologies towards a sustainable future (Part II)", *Applied Energy*, 162, 1109 1113, 2016 (SCI,EI)

43. G. D. Zhang, Y. Jiao and **D.J. Lee**, "Leachate treatment using anoxic/oxic bioelectrochemical reactor with intermittent aeration", *Journal of the Taiwan Institute of Chemical Engineers*, 58, 401 406, 2016 (SCI,EI)

44. C. G. Whiteley, C. Y. Shing, C. C. Kuo and **D.J. Lee**, "Docking of HIV protease to silver nanoparticles", *Journal of the Taiwan Institute of Chemical Engineers*, 60, 83 91, 2016 (SCI,EI)

45. S. P. Sun, X. Liu, B. Y. Ma, C. L. Wan and **D.J. Lee**, "The role of autoinducer 2 in aerobic granulation using alternating feed loadings strategy", *Bioresource Technology*, 201, 58 64, 2016 (SCI,EI)

46. G. R. Chen, Y. R. Chang, X. Liu, T. Kawamoto, H. Tanaka, D. Parajuli, T. Kawasaki, Y. Kawatsu, T. Kobayashi, M. L. Chen, Y. K. Lo, Z. F. Lei and **D.J. Lee**, "Cesium removal from drinking water using Prussian blue adsorption followed by anion exchange process", *Separation and Purification Technology*, 172, 147 151, 2017 (SCI,EI)

47. C. C. Cheng, W. T. Chuang, **D.J. Lee**, Z. Xin and C. W. Chiu, "Supramolecular Polymer Network Mediated Self Assembly of Semicrystalline Polymers with Excellent Crystalline Performance", *Macromolecular Rapid Communications*, 38(5), 2017 (SCI,EI)

48. C. Zhang, S. P. Sun, X. Liu, C. L. Wan and **D.J. Lee**, "Influence of operational conditions on the stability of aerobic granules from the perspective of quorum sensing", *Environmental Science and Pollution Research*, 24(8), 7640 7649, 2017 (SCI,EI)

49. C. C. Cheng, J. J. Huang, Z. S. Liao, S. Y. Huang, **D.J. Lee** and Z. Xin, "Nucleobase functionalized supramolecular polymer films with tailorable properties and tunable biodegradation rates", *Polymer Chemistry*, 8(9), 1454 1459, 2017 (SCI,EI)

50. C. C. Cheng, M. C. Liang, Z. S. Liao, J. J. Huang and **D.J. Lee**, "Self Assembled Supramolecular Nanogels as a Safe and Effective Drug Delivery Vector for Cancer Therapy", *Macromolecular Bioscience*, 17(5), 2017 (SCI,EI)

51. L. Lin, S. Hui, G. Lu, S. L. Wang, X. D. Wang and **D.J. Lee**, "Molecular dynamics simulations on dissolutive wetting of Al–Ni alloy droplets on NiAl substrate", *Journal of the Taiwan Institute of Chemical Engineers*, 75, 51 58, 2017 (SCI,EI)

52. C. C. Cheng, J. H. Wang, W. T. Chuang, Z. S. Liao, J. J. Huang, S. Y. Huang, W. L. Fan and **D.J. Lee**, "Dynamic supramolecular self assembly: hydrogen bonding induced contraction and extension of functional polymers", *Polymer Chemistry*, 8(21), 3294 3299, 2017 (SCI,EI)

53. W. Wu, P. H. Wang, **D.J. Lee** and J. S. Chang, "Global optimization of microalgae to biodiesel chains with integrated cogasification combined cycle systems based on greenhouse gas emissions reductions", *Applied Energy*, 197, 63 82, 2017 (SCI,EI)

54. Q. G. Zhang, C. Y. Lu, **D.J. Lee**, Y. J. Lee, Z. P. Zhang, X. H. Zhou, J. J. Hu, Y. Wang, D. P. Jiang, C. He and T. Zhang, "Photo fermentative hydrogen production in a 4 m(3) baffled reactor: Effects of hydraulic retention time", *Bioresource Technology*, 239, 533 537, 2017 (SCI,EI)

55. Q. G. Zhang, Nurhayati, C. L. Cheng, Y. C. Lo, D. Nagarajan, J. J. Hu, J. S. Chang and **D.J. Lee**, "Ethanol production by modified polyvinyl alcohol immobilized Zymomonas mobilis and in situ membrane distillation under very high gravity condition", *Applied Energy*, 202, 1 5, 2017 (SCI,EI)

56. L. Huang, Z. Chen, Q. Wen and **D.J. Lee**, "Enhanced polyhydroxyalkanoate production by mixed microbial culture with extended cultivation strategy", *Bioresource Technology*, 241, 802 811, 2017 (SCI,EI)

57. A. A. Muhabie, C. C. Cheng, J. J. Huang, Z. S. Liao, S. Y. Huang, C. W. Chiu and **D.J. Lee**, "Non covalently functionalized boron nitride mediated by a highly self assembled supramolecular polymer", *Chemistry of Materials*, 29(19), 8513 8520, 2017 (SCI,EI)

58. J. S. M. Ahmad, W. Cai, Z. W. Zhao, Z. Y. Zhang, K. Shimizu, Z. F. Lei and **D.J. Lee**, "Stability of algal bacterial granules in continuous flow reactors to treat varying strength domestic wastewater", *Bioresource Technology*, 244, 225 233, 2017 (SCI,EI)

59. Q. G. Zhang, J. J. Hu, **D.J. Lee**, Y. J. Chang and Y. J. Lee, "Sludge treatment: Current research trends", *Bioresource Technology*, 243, 1159 1172, 2017 (SCI,EI)

60. C. S. Liu, W. F. Li, X. C. Li, D. F. Zhao, B. Ma, Y. Q. Wang, F. Liu and **D.J. Lee**, "Nitrite accumulation in continuous flow partial autotrophic denitrification reactor using sulfide as electron donor", *Bioresource Technology*, 243, 1237 1240, 2017 (SCI,EI)

61. J.S. Chang, S. V. Mohan and **D.J. Lee**, "Preface: Special Issue on Algal Biorefinery", *Bioresource Technology*, 244, 1197, 2017 (SCI,EI)

62. H. M. D. Wang, X. C. Li, **D.J. Lee** and J. S. Chang, "Potential biomedical applications of marine algae", *Bioresource Technology*, 244, 1407 1415, 2017 (SCI,EI)

63. G. Lu, L. Lin, S. Hui, S. L. Wang, X. D. Wang and **D.J. Lee**, "Dewetting kinetics of metallic liquid films: Competition between unbalanced Young's force and dissolutive reaction", *Chemical Physics Letters*, 687, 91 95, 2017 (SCI,EI)

64. G. D. Zhang, S. S. Feng, Y. Jiao, **D.J. Lee**, Y. J. Xin and H. F. Sun, "Cathodic reducing bacteria of dual chambered microbial fuel cell", *International Journal of Hydrogen Energy*, 42(45), 27607 27617, 2017 (SCI,EI)

65. J. J. Hu, Y. Y. Jing, Q. G. Zhang, J. Guo and **D.J. Lee**, "Mesophilic and thermophilic photo hydrogen production from micro grinded, enzyme hydrolyzed maize straws", *International Journal of Hydrogen Energy*, 42(45), 27618 27622, 2017 (SCI,EI)

66. Q. G. Zhang, Nurhayati, C. L. Cheng, D. Nagarajan, J. S. Chang, J. J. Hu and **D.J. Lee**, "Carbon capture and utilization of fermentation CO2: Integrated ethanol fermentation and succinic acid production as an efficient platform", *Applied Energy*, 206, 364 371, 2017 (SCI,EI)

67. M. A. Sanroman, **D.J. Lee**, S. Khanal and Y. S. Ok, "Special Issue on Biochar: Production, Characterization and Applications – Beyond Soil Applications", *Bioresource Technology*, 246, 1, 2017 (SCI,EI)

68. L. J. Jhang and **D.J. Lee**, "Compressional puffing pretreatment for enhanced antioxidant compounds extraction from Aloe vera", *Journal of the Taiwan Institute of Chemical Engineers*, 81, 170 174, 2017 (SCI,EI)

69. Y. Wang, S. H. Ho, H. W. Yen, D. Nagarajan, N. Q. Ren, S. F. Li, Z. L. Hu, **D.J. Lee**, A. Kondo and J. S. Chang, "Current advances on fermentative biobutanol production using third generation feedstock", *Biotechnology Advances*, 35(8), 1049 1059, 2017 (SCI,EI)

70. X. J. Xu, C. Chen, X. Guan, Y. Yuan, A. J. Wang, **D.J. Lee**, Z. F. Zhang, J. Zhang, Y. J. Zhong and N. Q. Ren, "Performance and microbial community analysis of a microaerophilic sulfate and nitrate co reduction system", *Chemical Engineering Journal*, 330, 63 70, 2017 (SCI,EI)

71. C. C. Cheng, W. L. Lin, Z. S. Liao, C. W. Chu, J. J. Huang, S. Y. Huang, W. L. Fan and **D.J. Lee**, "Water soluble fullerene functionalized polymer micelles for efficient aqueous processed conductive devices", *Polymer Chemistry*, 8(48), 7469 7474, 2017 (SCI,EI)

72. L. Lin, S. Hui, G. Lu, S. L. Wang, X. D. Wang and **D.J. Lee**, "Molecular dynamics study of high temperature wetting kinetics for Al/NiAl and Al/Ni3Al systems: Effects of grain boundaries", *Chemical Engineering Science*, 174, 127 135, 2017 (SCI,EI)

73. H. Zhang, G. Y. Chen, Q. G. Zhang, **D.J. Lee**, Z. P. Zhang, Y. M. Li, P. P. Li, J. J. Hu and B. B. Yan, "Photosynthetic hydrogen production by alginate immobilized bacterial consortium", *Bioresource Technology*, 236, 44 48, 2017 (SCI,EI)

74. J. J. Hu, Y. Y. Jing, Q. G. Zhang, J. Guo and **D.J. Lee**, "Enzyme hydrolysis kinetics of micro grinded maize straws", *Bioresource Technology*, 240, 177 180, 2017 (SCI,EI)

75. D. T. Tran, J. S. Chang and **D.J. Lee**, "Recent insights into continuous flow biodiesel production via catalytic and non catalytic transesterification processes", *Applied Energy*, 185, 376 409, 2017 (SCI,EI)

76. C. C. Cheng, J. J. Huang, A. A. Muhable, Z. S. Liao, S. Y. Huang, S. C. Lee, C. W. Chiu and **D.J. Lee**, "Supramolecular fluorescent nanoparticles functionalized with controllable physical properties and temperature responsive release behavior", *Polymer Chemistry*, 8(15), 2292 2298, 2017 (SCI,EI)

77. C. Chen, X. J. Xu, P. Xie, Y. Yuan, X. Zhou, A. J. Wang, **D.J. Lee** and N. Q. Ren, "Pyrosequencing reveals microbial community dynamics in integrated simultaneous desulfurization and denitrification process at different influent nitrate concentrations", *Chemosphere*, 171, 294 301, 2017 (SCI,EI)

78. C. C. Cheng, Z. S. Liao, J. J. Huang, **D.J. Lee** and J. K. Chen, "Supramolecular polymer micelles as universal tools for constructing high performance fluorescent nanoparticles", *Dyes and Pigments*, 137, 284 292, 2017 (SCI,EI)

79. P. S. Chiang, **D.J. Lee**, C. G. Whiteley and C. Y. Huang, "Antioxidant phenolic compounds from Pinus morrisconicola using compressional puffing pretreatment and water ethanol extraction: Optimization of extraction parameters", *Journal of the Taiwan Institute of Chemical Engineers*, 70, 7 14, 2017 (SCI,EI)

80. Q. G. Zhang, J. J. Hu and **D.J. Lee**, "Pretreatment of biomass using ionic liquids: Research updates", *Renewable Energy*, 111, 77 84, 2017 (SCI,EI)

81. X. N. Wang, D. Y. Zhang, X. L. Pan, **D.J. Lee**, F. A. Al Misned, M. G. Mortuza and G. M. Gadd, "Aerobic and anaerobic biosynthesis of nano selenium for remediation of mercury contaminated soil", *Chemosphere*, 170, 266 273, 2017 (SCI,EI)

82. C. Chen, R. C. Zhang, X. J. Xu, N. Fang, A. J. Wang, N. Q. Ren and **D.J. Lee**, "Enhanced performance of denitrifying sulfide removal process at high carbon to nitrogen ratios under micro aerobic condition", *Bioresource Technology*, 232, 417 422, 2017 (SCI,EI)

83. X. J. Xu, C. Chen, A. J. Wang, B. J. Ni, W. Q. Guo, Y. Yuan, C. Huang, X. Zhou, D. H. Wu, **D.J. Lee** and N. Q. Ren, "Mathematical modeling of simultaneous carbon nitrogen sulfur removal from industrial wastewater", *Journal of Hazardous Materials*, 321, 371 381, 2017 (SCI,EI)

84. G. U. Semblante, F. I. Hai, J. McDonald, S. J. Khan, M. Nelson, **D.J. Lee**, W. E. Price and L. D. Nghiem, "Fate of trace organic contaminants in oxic settling anoxic (OSA) process applied for biosolids reduction during wastewater treatment", *Bioresource Technology*, 240, 181 191, 2017 (SCI,EI)

85. C. C. Cheng, **D.J. Lee** and J. K. Chen, "Self assembled supramolecular polymers with tailorable properties that enhance cell attachment and proliferation", *Acta Biomaterialia*, 50, 476 483, 2017 (SCI,EI)

86. K. W. Chew, J. Y. Yap, P. L. Show, N. H. Suan, J. C. Juan, T. C. Ling, **D.J. Lee** and J. S. Chang, "Microalgae biorefinery: High value products perspectives", *Bioresource Technology*, 229, 53 62, 2017 (SCI,EI)

87. D. Nagarajan, **D.J. Lee**, A. Kondo and J. S. Chang, "Recent insights into biohydrogen production by microalgae From biophotolysis to dark fermentation", *Bioresource Technology*, 227, 373 387, 2017 (SCI,EI)

88. Q. G. Zhang, Y. Wang, Z. P. Zhang, **D.J. Lee**, X. H. Zhou, Y. Y. Jing, X. M. Ge, D. P. Jiang, J. J. Hu and C. He, "Photo fermentative hydrogen production from crop residue: A mini review", *Bioresource Technology*, 229, 222 230, 2017 (SCI,EI)

89. Y. D. Li, Y. Chen, L. Wang, L. Yao, X. M. Pan and **D.J. Lee**, "Pollution tolerant protozoa in polluted wetland", *Bioresource Technology*, 240, 115 122, 2017 (SCI,EI)

90. T. H. Dang, B. H. Chen and **D.J. Lee**, "Optimization of biodiesel production from transesterification of triolein using zeolite LTA catalysts synthesized from kaolin clay", *Journal of the Taiwan Institute of Chemical Engineers*, 79, 14 22, 2017 (SCI,EI)

91. P. S. Chiang, **D.J. Lee**, C. G. Whiteley and C. Y. Huang, "Extracting antioxidant phenolic compounds from compressional puffing pretreated Pinus morrisonicola: Effects of operational parameters, kinetics and characterization", *Journal of the Taiwan Institute of Chemical Engineers*, 75, 70 76, 2017 (SCI,EI)

92. Y. J. Lee, Y. J. Chang, **D.J. Lee** and J. P. Hsu, "Water stable metal organic framework as adsorbent from aqueous solution: A mini review", *Journal of the Taiwan Institute of Chemical Engineers*, 93, 176 183, 2018 (SCI,EI)

93. Y. C. Lee, **D.J. Lee** and C. C. Cheng, "Zirconium involved platelet SBA 15: Synthesis and application to tannic acid adsorption", *Journal of the Taiwan Institute of Chemical Engineers*, 93, 124 130, 2018 (SCI,EI)

94. X. J. Xu, B. Shao, C. Chen, R. C. Zhang, P. Xie, X. T. Wang, Y. Yuan, A. J. Wang, **D.J. Lee**, Y. X. Yuan and N. Q. Ren, "Response of the reactor performance and microbial community to a shift of ISDD process from micro aerobic to anoxic condition", *Chemosphere*, 212, 837 844, 2018 (SCI,EI)

95. S. R. Chia, H. C. Ong, K. W. Chew, P. L. Show, S. M. Phang, T. C. Ling, D. Nagarajan, **D.J. Lee** and J. S. Chang, "Sustainable approaches for algae utilisation in bioenergy production", *Renewable Energy*, 129, 838 852, 2018 (SCI,EI)

96. J. J. Hu, Q. G. Zhang, **D.J. Lee** and H. H. Ngo, "Feasible use of microbial fuel cells for pollution treatment", *Renewable Energy*, 129, 824 829, 2018 (SCI,EI)

97. A. Pandey, **D.J. Lee**, S. V. Mohan and R. Ruan, "Preface 1st International Conference on Bioresource Technology for Bioenergy, Bioproducts & Environmental Sustainability (BIORESTEC)", *Renewable Energy*, 129, 677, 2018 (SCI,EI)

98. C.J. Tsai, Y.R. Chang and **D.J. Lee**, "Correction to “Shape Stable Poly(vinyl alcohol) and Alginate Cross Linked Hydrogel under Drying Rewetting Cycles: Boron Substitution”", *Industrial & Engineering Chemistry Research*, 57(46), 15959 15959, 2018 (SCI,EI)

99. Z. W. Zhao, X. J. Yang, W. Cai, Z. F. Lei, K. Shimizu, Z. Y. Zhang, M. Utsumi and **D.J. Lee**, "Response of algal bacterial granular system to low carbon wastewater: Focus on granular stability, nutrients removal and accumulation", *Bioresource Technology*, 268, 221 229, 2018 (SCI,EI)

100. C. Chen, B. Shao, R. C. Zhang, X. J. Xu, X. Zhou, Y. Yuan, N. Q. Ren and **D.J. Lee**, "Mitigating adverse impacts of varying sulfide/nitrate ratios on denitrifying sulfide removal process performance", *Bioresource Technology*, 267, 782 788, 2018 (SCI,EI)

101. Y. Lv, C. L. Wan, **D.J. Lee**, X. Liu, Y. Zhang and J. H. Tay, "Recovery of dehydrated aerobic granules: A comparison", *Bioresource Technology*, 267, 769 773, 2018 (SCI,EI)

102. C. J. Tsai, Y. R. Chang and **D.J. Lee**, "Shape Stable Poly(vinyl alcohol) and Alginate Cross Linked Hydrogel under Drying Rewetting Cycles: Boron Substitution", *Industrial & Engineering Chemistry Research*, 57(42), 14213 14222, 2018 (SCI,EI)

103. R. C. Zhang, X. J. Xu, C. Chen, D. F. Xing, B. Shao, W. Z. Liu, A. J. Wang, **D.J. Lee** and N. Q. Ren, "Interactions of functional bacteria and their contributions to the performance in integrated autotrophic and heterotrophic denitrification", *Water Research*, 143, 355 366, 2018 (SCI,EI)

104. H. L. Guo, X. D. Wang and **D.J. Lee**, "Proteomic researches for lignocellulose degrading enzymes: A mini review", *Bioresource Technology*, 265, 532 541, 2018 (SCI,EI)

105. L. Wang, X. Liu, **D.J. Lee**, J. H. Tay, Y. Zhang, C. L. Wan and X. F. Chen, "Recent advances on biosorption by aerobic granular sludge", *Journal of Hazardous Materials*, 357, 253 270, 2018 (SCI,EI)

106. H. P. Kuo, S. S. Hsiau and **D.J. Lee**, "Special issue on the 7th Asian Particle Technology Symposium (APT 2017) – toward wonderful particulate world", *Journal of the Taiwan Institute of Chemical Engineers*, 90, 1 3, 2018 (SCI,EI)

107. J. J. Hu, C. Li, Q. H. Guo, J. T. Dang, Q. G. Zhang, **D.J. Lee** and Y. L. Yang, "Syngas production by chemical looping gasification of wheat straw with Fe based oxygen carrier", *Bioresource Technology*, 263, 273 279, 2018 (SCI,EI)

108. X. Wang, G. Daigger, **D.J. Lee**, J. X. Liu, N. Q. Ren, J. H. Qu, G. Liu and D. Butler, "Evolving wastewater infrastructure paradigm to enhance harmony with nature", *Science Advances*, 4(8), 2018 (SCI,EI)

109. F. Z. Zeng, Q. L. Zhao, W. B. Jin, Y. X. Liu, K. Wang and **D.J. Lee**, "Struvite precipitation from anaerobic sludge supernatant and mixed fresh/stale human urine", *Chemical Engineering Journal*, 344, 254 261, 2018 (SCI,EI)

110. Z. S. Liao, S. Y. Huang, J. J. Huang, J. K. Chen, A. W. Lee, J. Y. Lai, **D.J. Lee** and C. C. Cheng, "Self Assembled pH Responsive Polymeric Micelles for Highly Efficient, Noncytotoxic Delivery of Doxorubicin Chemotherapy To Inhibit Macrophage Activation: In Vitro Investigation", *Biomacromolecules*, 19(7), 2772 2781, 2018 (SCI,EI)

111. **D.J. Lee**, Y. L. Cheng, R. J. Wong and X. D. Wang, "Adsorption removal of natural organic matters in waters using biochar", *Bioresource Technology*, 260, 413 416, 2018 (SCI,EI)

112. A. A. Muhabie, C. H. Ho, B. T. Gebeyehu, S. Y. Huang, C. W. Chiu, J. Y. Lai, **D.J. Lee** and C. C. Cheng, "Dynamic tungsten diselenide nanomaterials: supramolecular assembly induced structural transition over exfoliated two dimensional nanosheets", *Chemical Science*, 9(24), 5452 5460, 2018 (SCI,EI)

113. K. L. Tung, T. W. Cheng, B. Van der Bruggen and **D.J. Lee**, "Editorial of SI: Filtering a better future", *Separation and Purification Technology*, 198, 1 2, 2018 (SCI,EI)

114. **D.J. Lee** and Y. R. Chang, "Bioflocculants from isolated stains: A research update", *Journal of the Taiwan Institute of Chemical Engineers*, 87, 211 215, 2018 (SCI,EI)

115. K. Y. Show, Y. G. Yan, M. Ling, G. X. Ye, T. Li and **D.J. Lee**, "Hydrogen production from algal biomass Advances, challenges and prospects", *Bioresource Technology*, 257, 290 300, 2018 (SCI,EI)

116. H. Yu, J. Q. Jiang, Q. L. Zhao, F. T. Kabutey, Y. S. Zhang, K. Wang and **D.J. Lee**, "Enhanced electricity generation and organic matter degradation during three chamber bioelectrochemically assisted anaerobic composting of dewatered sludge", *Biochemical Engineering Journal*, 133, 196 204, 2018 (SCI,EI)

117. G. Kumar, S. Shobana, D. Nagarajan, **D.J. Lee**, K. S. Lee, C. Y. Lin, C. Y. Chen and J. S. Chang, "Biomass based hydrogen production by dark fermentation recent trends and opportunities for greener processes", *Current Opinion in Biotechnology*, 50, 136 145, 2018 (SCI,EI)

118. Q. G. Zhang, Z. P. Zhang, Y. Wang, **D.J. Lee**, G. Li, X. H. Zhou, D. P. Jiang, B. Xu, C. Y. Lu, Y. M. Li and X. M. Ge, "Sequential dark and photo fermentation hydrogen production from hydrolyzed corn stover: A pilot test using 11 m(3) reactor", *Bioresource Technology*, 253, 382 386, 2018 (SCI,EI)

119. C. Y. Chen, I. C. Lu, D. Nagarajan, C. H. Chang, I. S. Ng, **D.J. Lee** and J. S. Chang, "A highly efficient two stage cultivation strategy for lutein production using heterotrophic culture of Chlorella sorokiniana MB 1 M12", *Bioresource Technology*, 253, 141 147, 2018 (SCI,EI)

120. L. Huang, Z. Q. Chen, Q. X. Wen, L. Z. Zhao, **D.J. Lee**, L. Yang and Y. Wang, "Insights into Feast Famine polyhydroxyalkanoate (PHA) producer selection: Microbial community succession, relationships with system function and underlying driving forces", *Water Research*, 131, 167 176, 2018 (SCI,EI)

121. H. P. Kuo, S. S. Hsiau and **D.J. Lee**, "Special issue on the 7th Asian Particle Technology Symposium (APT 2017) – Toward wonderful particulate world", *Advanced Powder Technology*, 29(3), 439 440, 2018 (SCI,EI)

122. B. S. Kang, Y. R. Chang, **D.J. Lee**, M. L. Chen and Y. K. Lo, "Poly (methyl methacrylate) matrix with immobilized Prussian blue for cesium removal from waters", *Journal of the Taiwan Institute of Chemical Engineers*, 84, 142 148, 2018 (SCI,EI)

123. H. L. Guo, Y. J. Chang and **D.J. Lee**, "Enzymatic saccharification of lignocellulosic biorefinery: Research focuses", *Bioresource Technology*, 252, 198 215, 2018 (SCI,EI)

124. B. T. Gebeyehu, S. Y. Huang, A. W. Lee, J. K. Chen, J. Y. Lai, **D.J. Lee** and C. C. Cheng, "Dual Stimuli Responsive Nucleobase Functionalized Polymeric Systems as Efficient Tools for Manipulating Micellar Self Assembly Behavior", *Macromolecules*, 51(3), 1189 1197, 2018 (SCI,EI)

125. Y. Zhang, A. Wusiman, X. Liu, C. Wan, **D.J. Lee** and J. Tay, "Polyhydroxyalkanoates (PHA) production from phenol in an acclimated consortium: Batch study and impacts of operational conditions", *Journal of Biotechnology*, 267, 36 44, 2018 (SCI,EI)

126. T. C. Hsu, C. C. Chang, M. H. Yuan, C. Y. Chang, Y. H. Chen, C. F. Lin, D. R. Ji, J. L. Shie, D. V. Manh, C. H. Wu, S. W. Chiang, F. C. Lin, **D.J. Lee**, M. Huang and Y. H. Chen, "Upgrading of Jatropha seed residue after mechanical extraction of oil via torrefaction", *Energy*, 142, 773 781, 2018 (SCI,EI)

127. J. J. Hu, D. Nagarajan, Q. G. Zhang, J. S. Chang and **D.J. Lee**, "Heterotrophic cultivation of microalgae for pigment production: A review", *Biotechnology Advances*, 36(1), 54 67, 2018 (SCI,EI)

128. J. J. Hu, Q. G. Zhang and **D.J. Lee**, "Kraft lignin biorefinery: A perspective", *Bioresource Technology*, 247, 1181 1183, 2018 (SCI,EI)

129. Z. W. Zhao, S. Liu, X. J. Yang, Z. F. Lei, K. Shimizu, Z. Y. Zhang, **D.J. Lee** and Y. Adachi, "Stability and performance of algal bacterial granular sludge in shaking photo sequencing batch reactors with special focus on phosphorus accumulation", *Bioresource Technology*, 280, 497 501, 2019 (SCI,EI)

130. R. C. Zhang, X. J. Xu, C. Chen, B. Shao, X. Zhou, Y. Yuan, **D.J. Lee** and N. Q. Ren, "Bioreactor performance and microbial community analysis of autotrophic denitrification under micro aerobic condition", *Science of the Total Environment*, 647, 914 922, 2019 (SCI,EI)

131. M. Zhang, Y. Zhang, Z. W. Li, C. Zhang, X. J. Tan, X. Liu, C. L. Wan, X. Yang and **D.J. Lee**, "Anaerobic co digestion of food waste/excess sludge: substrates products transformation and role of NADH as an indicator", *Journal of Environmental Management*, 232, 197 206, 2019 (SCI,EI)

132. T. Yuan, Y. F. Cheng, X. Z. Wang, Y. Yu, Z. Y. Zhang, Z. F. Lei, K. Shimizu, M. Utsumi, Y. Adachi and **D.J. Lee**, "A novel anaerobic digestion system coupling biogas recirculation with MgCl2 addition for multipurpose sewage sludge treatment", *Journal of Cleaner Production*, 230, 499 507, 2019 (SCI,EI)

133. P. Xie, S. H. Ho, J. Peng, X. J. Xu, C. Chen, Z. F. Zhang, **D.J. Lee** and N. Q. Ren, "Dual purpose microalgae based biorefinery for treating pharmaceuticals and personal care products (PPCPs) residues and biodiesel production", *Science of the Total Environment*, 688, 253 261, 2019 (SCI,EI)

134. Y. Wang, N. Tahir, W. X. Cao, Q. G. Zhang and **D.J. Lee**, "Grid columnar flat panel photobioreactor with immobilized photosynthetic bacteria for continuous photofermentative hydrogen production", *Bioresource Technology*, 291, 2019 (SCI,EI)

135. X. T. Wang, X. J. Xu, C. Chen, D. F. Xing, R. C. Zhang, X. Zhou, Y. Yuan, A. J. Wang, N. Q. Ren and **D.J. Lee**, "The microbial zonation of SRB and soNRB enhanced the performance of SR DSR process under the micro aerobic condition", *Environment International*, 132, 2019 (SCI)

136. P. H. Wang, Y. R. Chang and **D.J. Lee**, "Shape stable poly(vinyl alcohol) hydrogels with immobilized activated sludge at repeated dry rewet cycles", *Bioresource Technology*, 289, 2019 (SCI,EI)

137. P. H. Wang, Y. R. Chang and **D.J. Lee**, "Shape stable poly(vinyl alcohol) and alginate cross linked hydrogel with borate anions under dry rewet cycles", *Journal of the Taiwan Institute of Chemical Engineers*, 103, 85 93, 2019 (SCI,EI)

138. P. H. Wang, Y. R. Chang and **D.J. Lee**, "Structure for shape stable poly(vinyl alcohol) hydrogel under pH shock", *Journal of the Taiwan Institute of Chemical Engineers*, 104, 341 350, 2019 (SCI,EI)

139. C. J. Tsai, Y. R. Chang, M. L. Chen, Y. K. Lo and **D.J. Lee**, "Stable poly(vinyl alcohol) and alginate cross linked granules with immobilized ferric hexacyanoferrate for cesium removal from waters", *Journal of the Taiwan Institute of Chemical Engineers*, 95, 1 10, 2019 (SCI,EI)

140. C. H. Tsai, C. G. Whiteley and **D.J. Lee**, "Interactions between HIV 1 protease, silver nanoparticles, and specific peptides", *Journal of the Taiwan Institute of Chemical Engineers*, 103, 20 32, 2019 (SCI,EI)

141. C. H. Tan, P. L. Show, T. C. Ling, D. Nagarajan, **D.J. Lee**, W. H. Chen and J. S. Chang, "Exploring the potency of integrating semi batch operation into lipid yield performance of Chlamydomonas sp. Tai 03", *Bioresource Technology*, 285, 2019 (SCI,EI)

142. K. Y. Show, Y. G. Yan, C. X. Zong, N. Guo, J. S. Chang and **D.J. Lee**, "State of the art and challenges of biohydrogen from microalgae", *Bioresource Technology*, 289, 2019 (SCI,EI)

143. D. Nagarajan, **D.J. Lee** and J. S. Chang, "Recent insights into consolidated bioprocessing for lignocellulosic biohydrogen production", *International Journal of Hydrogen Energy*, 44(28), 14362 14379, 2019 (SCI,EI)

144. D. Nagarajan, **D.J. Lee** and J. S. Chang, "Integration of anaerobic digestion and microalgal cultivation for digestate bioremediation and biogas upgrading", *Bioresource Technology*, 290, 2019 (SCI,EI)

145. D. Nagarajan, A. Kusmayadi, H. W. Yen, C. D. Dong, **D.J. Lee** and J. S. Chang, "Current advances in biological swine wastewater treatment using microalgae based processes", *Bioresource Technology*, 289, 2019 (SCI,EI)

146. C. Y. Lu, Y. Wang, **D.J. Lee**, Q. G. Zhang, H. Zhang, N. Tahir, Y. Y. Jing, H. Liu and K. Zhang, "Biohydrogen production in pilot scale fermenter: Effects of hydraulic retention time and substrate concentration", *Journal of Cleaner Production*, 229, 751 760, 2019 (SCI,EI)

147. Y. Y. Liu, C. C. Cheng and **D.J. Lee**, "Synthesis of low surface energy polyepichlorohydrin triazoles thin film", *Journal of Colloid and Interface Science*, 539, 481 489, 2019 (SCI,EI)

148. X. Liu, M. Zhang, Z. W. Li, C. Zhang, C. L. Wan, Y. Zhang and **D.J. Lee**, "Inhibition of urease activity by humic acid extracted from sludge fermentation liquid", *Bioresource Technology*, 290, 2019 (SCI,EI)

149. X. Y. Li, X. D. Wang, **D.J. Lee** and W. M. Yan, "Highly heterogeneous interior structure of biofilm wastewater for enhanced pollutant removals", *Bioresource Technology*, 291, 2019 (SCI,EI)

150. Y. J. Lee and **D.J. Lee**, "Impact of adding metal nanoparticles on anaerobic digestion performance A review", *Bioresource Technology*, 292, 2019 (SCI,EI)

151. **D.J. Lee** and M. H. Hsieh, "Forward osmosis membrane processes for wastewater bioremediation: Research needs", *Bioresource Technology*, 290, 2019 (SCI,EI)

152. J. J. Hu, D. Li, **D.J. Lee** and Q. G. Zhang, "Gasification and catalytic reforming of corn straw in closed loop reactor", *Bioresource Technology*, 282, 530 533, 2019 (SCI,EI)

153. J. J. Hu, D. Li, **D.J. Lee**, Q. G. Zhang, W. Wang, S. H. Zhao, Z. P. Zhang and C. He, "Integrated gasification and catalytic reforming syngas production from corn straw with mitigated greenhouse gas emission potential", *Bioresource Technology*, 280, 371 377, 2019 (SCI,EI)

154. J. J. Hu, C. Li, Q. G. Zhang, Q. H. Guo, S. H. Zhao, W. Wang, **D.J. Lee** and Y. L. Yang, "Using chemical looping gasification with Fe2O3/Al2O3 oxygen carrier to produce syngas (H 2+CO) from rice straw", *International Journal of Hydrogen Energy*, 44(6), 3382 3386, 2019 (SCI,EI)

155. J. J. Hu, C. Li, **D.J. Lee**, Q. H. Guo, S. H. Zhao, Q. G. Zhang and D. Li, "Syngas production from biomass using Fe based oxygen carrier: Optimization", *Bioresource Technology*, 280, 183 187, 2019 (SCI,EI)

156. H. L. Guo, C. Chen and **D.J. Lee**, "Nitrogen and sulfur metabolisms of Pseudomonas sp. C27 under mixotrophic growth condition", *Bioresource Technology*, 293, 2019 (SCI,EI)

157. B. T. Gebeyehu, A. W. Lee, S. Y. Huang, A. A. Muhabie, J. Y. Lai, **D.J. Lee** and C. C. Cheng, "Highly stable photosensitive supramolecular micelles for tunable, efficient controlled drug release", *European Polymer Journal*, 110, 403 412, 2019 (SCI,EI)

158. H. Y. Chung, R. M. Wu and **D.J. Lee**, "Hydrodynamic drag force on porous sphere(s) moving in a Newtonian fluid: Two case studies", *Journal of the Taiwan Institute of Chemical Engineers*, 101, 8 14, 2019 (SCI,EI)

159. C. C. Cheng, A. A. Muhabie, S. Y. Huang, C. Y. Wu, B. T. Gebeyehu, A. W. Lee, J. Y. Lai and **D.J. Lee**, "Dual stimuli responsive supramolecular boron nitride with tunable physical properties for controlled drug delivery", *Nanoscale*, 11(21), 10393 10401, 2019 (SCI,EI)

160. C. C. Cheng, B. T. Gebeyehu, S. Y. Huang, Y. A. Alemayehu, Y. T. Sun, Y. C. Lai, Y. H. Chang, J. Y. Lai and **D.J. Lee**, "Entrapment of an adenine derivative by a photo irradiated uracil functionalized micelle confers controlled self assembly behavior", *Journal of Colloid and Interface Science*, 552, 166 178, 2019 (SCI,EI)

161. C. C. Cheng, T. W. Chiu, X. J. Yang, S. Y. Huang, W. L. Fan, J. Y. Lai and **D.J. Lee**, "Self assembling supramolecular polymer membranes for highly effective filtration of water soluble fluorescent dyes", *Polymer Chemistry*, 10(7), 827 834, 2019 (SCI,EI)

162. J. H. Chen, Y. Kato, M. Matsuda, C. Y. Chen, D. Nagarajan, T. Hasunuma, A. Kondo, C. D. Dong, **D.J. Lee** and J. S. Chang, "A novel process for the mixotrophic production of lutein with Chlorella sorokiniana MB 1 M12 using aquaculture wastewater", *Bioresource Technology*, 290, 2019 (SCI,EI)

163. G. J. Chen and **D.J. Lee**, "Synthesis of asymmetrical cellulose acetate/cellulose triacetate forward osmosis membrane: Optimization", *Journal of the Taiwan Institute of Chemical Engineers*, 96, 299 304, 2019 (SCI,EI)

164. Z. W. Chang, Y. J. Lee and **D.J. Lee**, "Adsorption of hydrogen arsenate and dihydrogen arsenate ions from neutral water by UiO 66 NH2", *Journal of Environmental Management*, 247, 263 268, 2019 (SCI)

165. Y. R. Chang, Y. J. Lee and **D.J. Lee**, "Membrane fouling during water or wastewater treatments: Current research updated", *Journal of the Taiwan Institute of Chemical Engineers*, 94, 88 96, 2019 (SCI,EI)

166. W. Cai, Z. W. Zhao, D. W. Li, Z. F. Lei, Z. Y. Zhang and **D.J. Lee**, "Algae granulation for nutrients uptake and algae harvesting during wastewater treatment", *Chemosphere*, 214, 55 59, 2019 (SCI,EI)

167. W. Cai, W. L. Huang, Z. F. Lei, Z. Y. Zhang, **D.J. Lee** and Y. Adachi, "Granulation of activated sludge using butyrate and valerate as additional carbon source and granular phosphorus removal capacity during wastewater treatment", *Bioresource Technology*, 282, 269 274, 2019 (SCI,EI)

168. Y. J. Lee, Y. J. Chang, **D.J. Lee**, Z. W. Chang and J. P. Hsu, "Effective adsorption of phosphoric acid by UiO-66 and UiO-66-NH_2 from extremely acidic mixed waste acids: Proof of concept", *Journal of the Taiwan Institute of Chemical Engineers*, 96, 483 486, 2019 (SCI,EI)

169. Y. M. Li, Z. P. Zhang, **D. J. Lee**, Q. G. Zhang, Y. Y. Jing, T. Yue, Z. X. Liu, "Role of L-cysteine and iron oxide nanoparticle in affecting hydrogen yield potential and electronic distribution in biohydrogen production from dark fermentation effluents by photo-fermentation", *Journal Of Cleaner Production*, 276, 123193, 2020 (SCI,EI)

170. F. J. Wu, Z. W. Li, H. Q. Li, X. Liu, C. L. Wan, **D. J. Lee**, "The disintegration of excess sludge enhanced by short -term interaction with potassium ferrate: Characteristics and mechanism", *Journal Of The Taiwan Institute Of Chemical Engineers*, 117, 164 170, 2020 (SCI,EI)

171. C. C. Cheng, Y. C. Lai, Y. T. Shieh, Y. H. Chang, A. W. Lee, J. K. Chen, **D. J. Lee**, J. Y. Lai, "CO2-Responsive Water-Soluble Conjugated Polymers for In Vitro and In Vivo Biological Imaging", *Biomacromolecules*, 21, 5282 5291, 2020 (SCI,EI)

172. H. L. Guo, C.Chen, **D. J. Lee**, "Manipulating denitrifying sulfide removal of Pseudomonas sp. C27 with nitrite as sole nitrogen source: Shotgun proteomics analysis", *Bioresource Technology*, 318, 124074, 2020 (SCI,EI)

173. J. X. Wang, Z. F. Lei, Y. J. Wei, Q. Wang, C. X. Tian, K.Shimizu, Z. Y. Zhang, Y. Adachi, **D. J. Lee**, "Behavior of algal-bacterial granular sludge in a novel closed photo-sequencing batch reactor under no external O-2 supply", *Bioresource Technology*, 318, 124190, 2020 (SCI,EI)

174. **D. J. Lee**, J. S. Lu, J. S. Chang, "Pyrolysis synergy of municipal solid waste (MSW): A review", *Bioresource Technology*, 318, 123912, 2020 (SCI,EI)

175. K. Y. Show, Y. G. Yan, J. Zhao, J. Shen, Z. X. Han, H. Y. Yao, **D. J. Lee**, "Startup and performance of full-scale anaerobic granular sludge blanket reactor treating high strength inhibitory acrylic acid wastewater", *Bioresource Technology*, 317, 123975, 2020 (SCI,EI)

176. C. S. Liu, W. Li, L. H. Liu, H. T. Yu, F. Liu, **D. J. Lee**, "Autotrophic induced heterotrophic bioreduction of bromate in use of elemental sulfur or zerovalent iron as electron donor", *Bioresource Technology*, 317, 124015, 2020 (SCI,EI)

177. Q. G. Zhang, B. Parmeswaran, **D. J. Lee**, "Accelerating agricultural biomass utilization for sustainable development: The oeuvres of the 4th subject specialized conference of

international bioprocessing association Preface", *Bioresource Technology*, 317, 124009, 2020 (SCI,EI)

178. P. Xie, S. H. Ho, Q. Y. Xiao, X. J. Xu, L. Zhao, X. Zhou, **D. J. Lee**, N. Q. Ren, C. Chen, "Revealing the role of nitrate on sulfide removal coupled with bioenergy production in Chlamydomonas sp. Tai-03: Metabolic pathways and mechanisms", *Journal Of Hazardous Materials*, 399, 123115, 2020 (SCI,EI)

179. X. J. Yang, Z. W. Zhao, Y. Yu, K. Shimizu, Z. Y. Zhang, Z. F. Lei, **D. J. Lee**, "Enhanced biosorption of Cr(VI) from synthetic wastewater using algal-bacterial aerobic granular sludge: Batch experiments, kinetics and mechanisms", *Separation And Purification Technology*, 251, 117323, 2020 (SCI,EI)

180. W. Q. Ren, C. L. Wan, Z. W. Li, X. Liu, R. Zhang, X. Y. Yang, **D. J. Lee**, "Functional CdS nanocomposites recovered from biomineralization treatment of sulfate wastewater and its applications in the perspective of photocatalysis and electrochemistry", *Science Of The Total Environment*, 742, 140646, 2020 (SCI,EI)

181. T. Y. Tsai, Y. C. Lo, C. D. Dong, D.Nagarajan, J. S. Chang, **D. J. Lee**, "Biobutanol production from lignocellulosic biomass using immobilized Clostridium acetobutylicum", *Applied Energy*, 277, 115531, 2020 (SCI,EI)

182. Z. F. Lei, X. M. Zhan, **D. J. Lee**, "Recent advancements in sustainable management of livestock waste and rural environment (LSW-2020)", *Bioresource Technology*, 316, 123958, 2020 (SCI,EI)

183. Q. G. Wang, Q. Y. Shen, J. X. Wang, Y. H. Zhang, Z. Y. Zhang, Z. F. Lei, K.Shimizu, **D. J. Lee**, "Fast cultivation and harvesting of oil-producing microalgae Ankistrodesmus falcatus var. acicularis fed with anaerobic digestion liquor via biogranulation in addition to nutrients removal", *Science Of The Total Environment*, 741, 140183, 2020 (SCI,EI)

184. X. J. Xu, H. J. Li, W. Wang, R. C. Zhang, X.Zhou, D. F. Xing, N. Q. Ren, **D. J. Lee**, Y. X. Yuan, Liu, LH, Chen, C, "The performance of simultaneous denitrification and biogas desulfurization system for the treatment of domestic sewage", *Chemical Engineering Journal*, 399, 125855, 2020 (SCI,EI)

185. T. Yuan, Y. X. Wang, M. Nuramkhaan, X. Z. Wang, Z. Y. Zhang, Z. F. Lei, K. Shimizu, M. Utsumi, Y. Adachi, **D. J. Lee**, "Coupling biogas recirculation with FeCl3 addition in anaerobic digestion system for simultaneous biogas upgrading, phosphorus conservation and sludge conditioning", *Bioresource Technology*, 315, 123811, 2020 (SCI,EI)

186. X. Z. Wang, T. Yuan, Z. F. Lei, M. Kobayashi, Y. Adachi, K. Shimizu, **D. J. Lee**, Z. Y. Zhang, "Supplementation of O-2-containing gas nanobubble water to enhance methane production from anaerobic digestion of cellulose", *Chemical Engineering Journal*, 398, 125652, 2020 (SCI,EI)

187. K. Y. Show, Y. G. Yan, J. Zhao, J. Shen, Z. X. Han, H. Y. Yao, **D. J. Lee**, "Laboratory trial and full-scale implementation of integrated anaerobic-aerobic treatment for high strength acrylic acid wastewater", *Science Of The Total Environment*, 738, 140323, 2020 (SCI,EI)

188. J. M. Zhao, T. T. Hou, Z. Y. Zhang, K. Shimizu, Z. F. Lei, **D. J. Lee**, "Anaerobic co-digestion of hydrolysate from anaerobically digested sludge with raw waste activated sludge: Feasibility assessment of a new sewage sludge management strategy

in the context of a local wastewater treatment plant", *Bioresource Technology*, 314, 123748, 2020 (SCI,EI)

189. C. H. Yang, C. C. Cheng, **D. J. Lee**, "Excess adsorption of phosphoric acid from extremely acidic solutions by covalent organic framework EB-COF:Br", *Chemosphere*, 257, 127244, 2020 (SCI,EI)

190. Q. X. Wen, Y. Ji, Z. Q. Chen, **D. J. Lee**, "Use of sodium chloride to rapidly restore polyhydroxyalkanoates production from filamentous bulking without polyhydroxyalkanoates productivity impairment", *Bioresource Technology*, 313, 123663, 2020 (SCI,EI)

191. D. Nagarajan, A. Nandini, C. D. Dong, **D. J. Lee**, J. S. Chang, "Lactic Acid Production from Renewable Feedstocks Using Poly(vinyl alcohol)-Immobilized Lactobacillus plantarum 23", *Industrial & Engineering Chemistry Research*, 59, 17156 17164, 2020 (SCI,EI)

192. K. Qi, Z. W. Li, C. Zhang, X. J. Tan, C. L. Wan, X. Liu, L.Wang, **D. J. Lee**, "Biodegradation of real industrial wastewater containing ethylene glycol by using aerobic granular sludge in a continuous-flow reactor: Performance and resistance mechanism", *Biochemical Engineering Journal*, 161, 107711, 2020 (SCI,EI)

193. J. S. Lu, Y. J. Chang, C. S. Poon, **D. J. Lee**, "Slow pyrolysis of municipal solid waste (MSW): A review", *Bioresource Technology*, 312, 123615, 2020 (SCI,EI)

194. X. Z. Wang, Z. F. Lei, K. Shimizu, Z. Y. Zhang, **D. J. Lee**, "Improved methane production from corn straw using anaerobically digested sludge pre-augmented by nanobubble water", *Bioresource Technology*, 311, 123479, 2020 (SCI,EI)

195. Y. H. Chen, G. H. Chen, **D. J. Lee**, "Synthesis of low surface energy thin film of polyepichlorohydrin-triazole-ols", *Journal Of Colloid And Interface Science*, 575, 452 463, 2020 (SCI,EI)

196. L. Wang, Y. Chen, Y. Zhao, M. L. Du, Y. Wang, J. F. Fan, N. Q. Ren, **D. J. Lee**, "Toxicity of two tetracycline antibiotics on Stentor coeruleus and Stylonychia lemnae: Potential use as toxicity indicator", *Chemosphere*, 255, 127011, 2020 (SCI,EI)

197. X. Zhou, W. B. Jin, L. Wang, W. Q. Ding, C. Chen, X. J. Xu, R. J. Tu, S. F. Han, X. C. Feng, **D. J. Lee**, "Improving primary sludge dewaterability by oxidative conditioning process with ferrous ion-activated peroxymonosulfate", *Korean Journal Of Chemical Engineering*, 37, 1498 1506, 2020 (SCI,EI)

198. D. D. Bao, Z. W. Li, X. Liu, C. L. Wan, R. Zhang, **D. J. Lee**, "Biochar derived from pyrolysis of oily sludge waste: Structural characteristics and electrochemical properties", *Journal Of Environmental Management*, 268, 110734, 2020 (SCI,EI)

199. R. C. Zhang, C. Chen, W. Wang, B. Shao, X. J. Xu, X.Zhou, **D. J. Lee**, N. Q. Ren, "The stimulating metabolic mechanisms response to sulfide and oxygen in typical heterotrophic sulfide-oxidizing nitrate-reducing bacteria Pseudomonas C27", *Bioresource Technology*, 309, 123451, 2020 (SCI,EI)

200. K. Y. Show, M. Ling, H. Guo, **D. J. Lee**, "Laboratory and full-scale performances of integrated anaerobic granule-aerobic biofilm-activated sludge processes for high strength recalcitrant paint wastewater", *Bioresource Technology*, 310, 123376, 2020 (SCI,EI)

201. G. D. Zhang, F. Su, Y. Jiao, Q. H. Chen, **D. J. Lee**, "Biocathodic performance of bioelectrochemical systems operated at low temperature", *Bioresource Technology*, 310, 123463, 2020 (SCI,EI)

202. C. H. Yang, J. S. Chang, **D. J. Lee**, "Covalent organic framework EB-COF:Br as adsorbent for phosphorus (V) or arsenic (V) removal from nearly neutral waters", *Chemosphere*, 253, 126736, 2020 (SCI,EI)

203. Y. A. Alemayehu, W. L. Fan, F. B. Ilhami, C. W. Chiu, **D. J. Lee**, C. C. Cheng, "Photosensitive Supramolecular Micelle-Mediated Cellular Uptake of Anticancer Drugs Enhances the Efficiency of Chemotherapy", *International Journal Of Molecular Sciences*, 21, 4677, 2020 (SCI,EI)

204. R. C. Zhang, C. Chen, B. Shao, W. Wang, X. J. Xu, X. Zhou, Y. N. Xiang, L.Zhao, **D. J. Lee**, N. Q. Ren, "Heterotrophic sulfide-oxidizing nitrate-reducing bacteria enables the high performance of integrated autotrophic-heterotrophic denitrification (IAHD) process under high sulfide loading", *Water Research*, 178, 115848, 2020 (SCI,EI)

205. X. Wang, Y. B. Wang, S. R. Gao, Y. R. Yang, X. D. Wang, **D. J. Lee**, "Controllable splitting of impacting droplets by hybrid-wettability surface", *Journal Of The Taiwan Institute Of Chemical Engineers*, 111, 24 33, 2020 (SCI,EI)

206. C. Y. Chien, K. Y. Show, C. P. Huang, Y. J. Chang, **D. J. Lee**, "Effects of sodium salt additive to produce ultra lightweight aggregates from industrial sludge-marine clay mix: Laboratory trials", *Journal Of The Taiwan Institute Of Chemical Engineers*, 111, 105 109, 2020 (SCI,EI)

207. X. J. Xu, W. Q. Wang, C. Chen, P. Xie, W. Z. Liu, X.Zhou, X. T. Wang, Y.Yuan, A. J. Wang, **D. J. Lee**, Y. X. Yuan, N. Q. Ren, "The effect of PBS on methane production in combined MEC-AD system fed with alkaline pretreated sewage sludge", *Renewable Energy*, 152, 229 236, 2020 (SCI,EI)

208. C. Y. Chen, M. H. Lee, Y. K. Leong, J. S. Chang, **D. J. Lee**, "Biodiesel production from heterotrophic oleaginous microalga Thraustochytrium sp. BM2 with enhanced lipid accumulation using crude glycerol as alternative carbon source", *Bioresource Technology*, 306, 123113, 2020 (SCI,EI)

209. Y. Zhang, H. Zhang, **D. J. Lee**, T.Zhang, D. P. Jiang, Z. P. Zhang, Q. G. Zhang, "Effect of enzymolysis time on biohydrogen production from photo-fermentation by using various energy grasses as substrates", *Bioresource Technology*, 305, 123062, 2020 (SCI,EI)

210. F. J. Wirawan, C. L. Cheng, Y. C. Lo, C. Y. Chen, J. S. Chang, S. Y. Leu, **D. J. Lee**, "Continuous cellulosic bioethanol co-fermentation by immobilized Zymomonas mobilis and suspended Pichia stipitis in a two-stage process", *Applied Energy*, 266, 114871, 2020 (SCI,EI)

211. C. H. Yang, J. S. Chang, **D. J. Lee**, "Chemically stable covalent organic framework as adsorbent from aqueous solution: A mini-review", *Journal Of The Taiwan Institute Of Chemical Engineers*, 110, 79 91, 2020 (SCI,EI)

212. C. Y. Lu, Y. Y. Jing, H. Zhang, **D. J. Lee**, N. Tahir, Q. G. Zhang, W. Z. Li, Y.Wang, X. Y. Liang, J. Wang, P. Jin, X. T. Zhang, "Biohydrogen production through active saccharification and photo-fermentation from alfalfa", *Bioresource Technology*, 304, 123007, 2020 (SCI,EI)

213. X. J. Xu, W. Q. Wang, C. Chen, P. Xie, W. Z. Liu, X.Zhou, X. T. Wang, Y.Yuan, A. J. Wang, **D. J. Lee**, Y. X. Yuan, N. Q, Ren, "Bioelectrochemical system for the enhancement of methane production by anaerobic digestion of alkaline pretreated sludge", *Bioresource Technology*, 304, 123000, 2020 (SCI,EI)

214. T. Zhang, D. P. Jiang, H. Zhang, **D. J. Lee**, Z. P. Zhang, Q. G. Zhang, Y. Y. Jing, Y.Zhang, C. X. Xia, "Effects of different pretreatment methods on the structural characteristics, enzymatic saccharification and photo-fermentative bio-hydrogen production performance of corn straw", *Bioresource Technology*, 304, 122999, 2020 (SCI,EI)

215. H. Liu, Z. P. Zhang, H. Zhang, **D. J. Lee**, Q. G. Zhang, C. Y. Lu, C.He, "Evaluation of hydrogen yield potential from Chlorella by photo-fermentation under diverse substrate concentration and enzyme loading", *Bioresource Technology*, 303, 122956, 2020 (SCI,EI)

216. J. H. Lu, C. Chen, C. Huang, S. Y. Leu, **D. J. Lee**, "Glucose fermentation with biochar amended consortium: Sequential fermentations", *Bioresource Technology*, 303, 122933, 2020 (SCI,EI)

217. J. H. Lu, C. Chen, C. Huang, H. C. Zhuang, S. Y. Leu, **D. J. Lee**, "Dark fermentation production of volatile fatty acids from glucose with biochar amended biological consortium", *Bioresource Technology*, 303, 122921, 2020 (SCI,EI)

218. Y. H. Zhang, X. C. Dong, S. Liu, Z. F. Lei, K.Shimizu, Z. Y. Zhang, Y.Adachi, **D. J. Lee**, "Rapid establishment and stable performance of a new algal-bacterial granule system from conventional bacterial aerobic granular sludge and preliminary analysis of mechanisms involved", *Journal Of Water Process Engineering*, 34, 101073, 2020 (SCI,EI)

219. A. A. bin Azmi, R.Sankaran, P. L. Show, T. C. Ling, Y. Tao, H. SH. Munawaroh, P. S. Kong, **D. J. Lee**, J. S. Chang, "Current application of electrical pre-treatment for enhanced microalgal biomolecules extraction", *Bioresource Technology*, 302, 122874, 2020 (SCI,EI)

220. C. Y. Chen, E. W. Kuo, D. Nagarajan, S. H. Ho, C. D. Dong, **D. J. Lee**, J. S. Chang, "Cultivating Chlorella sorokiniana AK-1 with swine wastewater for simultaneous wastewater treatment and algal biomass production", *Bioresource Technology*, 302, 122814, 2020 (SCI,EI)

221. D. Nagarajan, J. S. Chang, **D. J. Lee**, "Pretreatment of microalgal biomass for efficient biohydrogen production - Recent insights and future perspectives", *Bioresource Technology*, 302, 122871, 2020 (SCI,EI)

222. D. Nagarajan, **D. J. Lee**, C. Y. Chen, J. S. Chang, "Resource recovery from wastewaters using microalgae-based approaches: A circular bioeconomy perspective", *Bioresource Technology*, 302, 122817, 2020 (SCI,EI)

223. W. Margareta, D. Nagarajan, J. S. Chang, **D. J. Lee**, "Dark fermentative hydrogen production using macroalgae (Ulva sp.) as the renewable feedstock", *Applied Energy*, 262, 114574, 2020 (SCI,EI)

224. W. Wang, R. C. Zhang, Z. Q. Huang, C. Chen, X. J. Xu, X. Zhou, T. M. Yin, A. J. Wang, **D. J. Lee**, N. Q. Ren, "Performance of a novel IAHD-DSR process with methane and sulfide as co-electron donors", *Journal Of Hazardous Materials*, 386, 121657, 2020

(SCI,EI)

225. C. Y. Wang, Y. J. Lee, J. P. Hsu, **D. J. Lee**, "Phosphate or arsenate modified UiO-66-NO2: Amorphous mesoporous matrix", *Journal Of The Taiwan Institute Of Chemical Engineers*, 108, 129 133, 2020 (SCI,EI)

226. J. S. Lu, J. S. Chang, **D. J. Lee**, "Adding carbon-based materials on anaerobic digestion performance: A mini-review", *Bioresource Technology*, 300, 122696, 2020 (SCI,EI)

227. K. Y. Show, Y. G. Yan, H. Y. Yao, H. Guo, T. Li, D. Y. Show, J. S. Chang, **D. J. Lee**, "Anaerobic granulation: A review of granulation hypotheses, bioreactor designs and emerging green applications", *Bioresource Technology*, 300, 122751, 2020 (SCI,EI)

228. Z. W. Li, L. Lin, X. Liu, C. L. Wan, **D. J. Lee**, "Understanding the role of extracellular polymeric substances in the rheological properties of aerobic granular sludge", *Science Of The Total Environment*, 705, 135948, 2020 (SCI,EI)

229. X. Z. Wang, T. Yuan, Z. T. Guo, H. L. Han, Z. F. Lei, K. Shimizu, Z. Y. Zhang, **D. J. Lee**, "Enhanced hydrolysis and acidification of cellulose at high loading for methane production via anaerobic digestion supplemented with high mobility nanobubble water", *Bioresource Technology*, 297, 122499, 2020 (SCI,EI)

230. S. Varjani, **D. J. Lee**, Q. G. Zhang, "Valorizing agricultural biomass for sustainable development: biological engineering aspects", *Bioengineered*, 11, 522 523, 2020 (SCI,EI)

231. J. H. Lu, C. Chen, C. P. Huang, **D. J. Lee**, "Glucose fermentation with biochar-amended consortium: microbial consortium shift", *Bioengineered*, 11, 272 280, 2020 (SCI,EI)

232. W. B. Zheng, L. Wang, X. Wang, M. L. Du, C. Ge, Q. H. Wang, M. Y. Zhang, M. L. Yang, X. D. Zheng, Y. Chen, **D. J. Lee**, "Dominant protozoan species in rhizosphere soil over growth of Beta vulgaris L. in Northeast China", *Bioengineered*, 11, 229 240, 2020 (SCI,EI)

233. L. Huang, Z. Q. Chen, Q. X. Wen, Y. Ji, Z. N. Wu, **D. J. Lee**, "Toward flexible regulation of polyhydroxyalkanoate composition based on substrate feeding strategy: Insights into microbial community and metabolic features", *Bioresource Technology*, 296, 122369, 2020 (SCI,EI)

234. X. J. Liu, Z. W. Li, C. Zhang, X. J. Tan, X.Yang, C. L. Wan, **D. J. Lee**, "Enhancement of anaerobic degradation of petroleum hydrocarbons by electron intermediate: Performance and mechanism", *Bioresource Technology*, 295, 122305, 2020 (SCI,EI)

Books & Book Chapters

1. **Lee, Duu Jong**; Pandey, A.; Chang, J.S.; Chisti, Y.; Soccol C. Biofuels from algae. 2nd Edition. Elsevier, London, 2018.

2. Bhaskar, T.; Pandey, A.; Mohan, S.V.; **Lee, Duu Jong**; Khanal, S.K. Waste Biorefinery. First edition, Elsevier, 2018.

3. Show K.Y., Yan Y.G., **Lee, Duu Jong**. Chapter 28 Biohydrogen production: status and perspectives. Biofuels: Alternative Feedstocks and Conversion Processes for the Production of Liquid and Gaseous Biofuels. 2nd Edn. Elsevier, London, 2019.

4. Show K.Y., Yan Y.G., **Lee, Duu Jong**. Chapter 13 Biohydrogen production from algae: perspectives, challenges, and prospects. Biofuels from Algae. 2nd Edn. Elsevier, London, 2019.

5. Show K.Y., Yan Y.G., **Lee, Duu Jong**. Chapter 16 Bioreactor and bioprocesses design for biohydrogen production. Biohydrogen. 2nd Edn. Elsevier, London, 2019.

6. Show K.Y., Yan Y.G., **Lee, Duu Jong**. Chapter 7 Algal biomass harvesting and drying. Biofuels from Algae. 2nd Edn. Elsevier, London, 2019.

7. Ngo H.H., Cheng D., Guo W., Pandey A., **Lee, Duu Jong**; Deng L. Chapter 8 Biotransformation of organic micro-pollutants in biological wastewater. Current Developments in Biotechnology and Bioengineering Emerging organic micro-pollutants. Elsevier, London, 2020.

8. Chen C., Xu X.J., **Lee, Duu Jong**. Chapter 7 Biological nitrogen recovery from industrial wastewater. Current Developments in Biotechnology and Bioengineering Emerging organic micro-pollutants. Elsevier, London, 2020.

Patents

1. **李篤中**、周宗毅、康伯瑄、張瑛茹 “吸附劑顆粒及其製備方法，以及應用該吸附劑去除輻射汙染的方法” 中華民國專利 626082 (公告日：2018/6/11).

2. **李篤中**、陳昱佑 “好氧生物顆粒及使用其進行廢水處理的方法” 中華民國專利 600619 (公告日：2017/10/01).

3. 鄭智嘉、**李篤中** “一種超分子微胞以及利用超分子微胞之活性物質釋放系統” 中華民國專利 581805 (公告日：2017/05/11).

4. 鄭智嘉、**李篤中** “超分子聚合物及其製作方法” 中華民國專利 557154 (公告日：2016/11/11).

5. **李篤中**、羅裕國、川本徹、田中壽、劉翔、陳冠儒、張瑛茹“於淨水過程中去除輻射銫的方法” 中華民國專利 531542 (公告日：2016/05/01).

6. **李篤中**、鄭雅伶 、張瑛茹、何政樺“微藻採集方法” 中華民國專利 557077 (公告日：2016/11/11).

7. **李篤中**、張慶源、呂宸宇、簡東昇、謝哲隆, “利用二氧化碳處理廢棄物之裝置,” 中華民國專利 490442 (公告日：2002/06/11).

8. 張慶源、**李篤中**、李弘、邱浚祐、於幼華、顧洋, “電鍍程序廢液之處理方法,” 中華民國專利 510891 (公告日：2002/11/21).

9. 張慶源、**李篤中**、謝哲隆, “多階段熱處理搭配添加劑以處理廢棄物之方法,” 中華

民國專利 521008 (公告日：2003/02/21).

10. J. H. Tay, **Duu Jong Lee**, T. D. Liang, and C. P. Chu, “Improved Biological Production of Hydrogen And Co production of Methane” , Singapore Patent 200205509

11. **李篤中**、鄭俊華、梁迪、朱敬平 “生物產氫及共同產生甲烷的改良方法” 中華民國專利 308904 (公告日：2009/04/21).

Technology Transfer

1. 技術移轉「具抗氧化或抗發炎功能之微藻美容保養品」，**李篤中**，蕾迪斯，新台幣 134 萬元(2011/05/01)

2. 技術移轉「具抗氧化或抗發炎功能之微藻美容保養品」，**李篤中**，蕾迪斯，新台幣 134 萬元(2012/05/01)

3. 技術移轉「具抗氧化或抗發炎功能之微藻美容保養品」，**李篤中**，蕾迪斯，新台幣 134 萬元(2013/05/01)

Honors and Others

1. EDITORIAL:

- Editorial Board member of Chemical Engineering Science (Elsevier, SCI,EI, 2002 now);
- Guest Editor and Editorial Board member of Separation Science and Technology (Taylor & Francis, SCI,EI, 2002 now);
- Editorial Board member of Journal of Residues Science & Technology (DecTech Pub, SCI, 2004 now);
- Guest Editor and Editorial Board member of Drying Technology (Taylor & Francis, SCI,EI, 2005 now);
- Editor of Advanced Powder Technology (Elsevier, SCI, 2005 now);
- Guest Editor of Desalination (Elsevier, SCI,EI, 2008);
- Associate Editor and Editorial Board member of Bioresource Technology (Elsevier, SCI,EI, 2009 now);
- Editorial Board member and Guest Editor of Applied Energy (Elsevier, SCI,EI, 2012 now);
- Guest Editor of Applied Biotechnology and Bioengineering (Elsevier, SCI,EI, 2012);

- Guest Editor of Biochemical Engineering Journal (Elsevier, SCI,EI, 2012).
- Guest Editor of Energy Conversion and Management (Elsevier, SCI,EI, 2015).
- Guest Editor of Renewable Energy (Elsevier, SCI,EI, 2015).

2. VISITING APPOINTMENT:

- Visiting Professor (Univ Waterloo; Hokkaiddo Univ; Natl Univ Singapore);
- Chair Professor (NTUST, 2017 2018; Tunghai Univ, 2018 2019; National Taiwan Normal University, 2020 2021; Hong Kong Polytechnic University, 2020)

3. PROFESSIONAL SERVICE:

- 台灣化學工程師學會副理事長(2010 2012);理事長(2013 2014);
- 國立台灣科技大學工學院院長、副校長
- 國立台灣大學系統執行長
- 台大系統文化教育基金會執行長

4. AWARD:

- 國科會特約研究員;
- 中工會傑出工程教授;
- 國立臺灣大學終身特聘教授;
- 國科會傑出特約研究獎;
- 中山學術文化基金會學術著作獎;
- Fellow, International Bioprocessing Association
- Fellow, Taiwan Institute of Chemical Engineers
- Fellow, Royal Society of Chemistry
- 有庠科技講座;
- 教育部學術獎
- 教育部國家講座