

Media Publicity:

1. Media press release of "Next generation toilet (No-mix vacuum toilet)" was on 26 June 2012. Primary media including Channel 5, Channel 8, Channel U, Channel NewsAsia, The Straits Times, The Business Times, Lianhe Zaobao, Today, The New Paper, and online websites (e.g., TreeHugger, XinMSN, Yahoo News Singapore) reported the toilet. After the media release, the team received more than 50 enquiries globally up to date.
2. BBC's flagship technology programme 'Click' shortlisted the CRP project and came to film the developments to make towns and cities more sustainable and liveable through innovative research. The video has been broadcasted on 25 Oct 2013 at <http://www.bbc.co.uk/news/technology-24651214>.

Journal Papers:

1. You S.J., Ren N.Q., Wang J.-Y., Zhao Q.L., Yang F.L., Zhang J.N., Fu L., Luo P. (2009) Improving phosphate buffer free cathode performance of microbial fuel cell based on biological nitrification. *Biosensors and Bioelectronics*, 24(12), 3698-3701.
2. Ding H.B., Tan G.Y.A., Wang J.-Y. (2010) Caproate formation in mixed-culture fermentative hydrogen production. *Bioresource Technology*, 101(24), 9550-9559.
3. Peng L., You S.J., Wang J.-Y. (2010) Electrode potential regulates cytochrome accumulation on *Shewanella oneidensis* cell surface and the consequence to bioelectrocatalytic current generation. *Biosensors and Bioelectronics*, 25(11), 2530- 2533.
4. Peng L., You S.-J., Wang J.-Y. (2010) Carbon nanotubes as electrode modifier promoting direct electron transfer from *Shewanella oneidensis*. *Biosensors and Bioelectronics*, 25, 1248-1251.
5. Luo G., Xie Li., Zhou Z., Zhou Q., Wang J.-Y. (2010) Fermentative hydrogen production from cassava stillage by mixed anaerobic microflora: effects of temperature and pH. *Journal of Applied Energy*, 87(12), 3710-3717.
6. You S.J., Wang J.-Y., Ren N.-Q., Wang X.-H., Zhang J.-N. (2010) Sustainable conversion of glucose into hydrogen peroxide in a solid polymer electrolyte microbial fuel cell. *ChemSusChem*, 3(3), 1248-1251.
7. Giannis A., Pentari D., Wang J.-Y., Gidarakos E. (2010) Application of sequential extraction analysis to electrokinetic remediation of cadmium, nickel and zinc from contaminated soils. *Journal of Hazardous Materials*, 184(1-3), 547-554.
8. You S.J., Wang X.-H., Zhang J.-N., Wang J.-Y., Ren N.-Q., Gong X.-B. (2011) Fabrication of stainless steel mesh gas diffusion electrode for power generation in microbial fuel cell. *Biosensors and Bioelectronics*, 26(5), 2142-2146.
9. Qi W., Niu D.J., Wang J.-Y. (2011) Characterization of microbial communities during hydrolysis of lignocellulosic waste to reducing sugars. *Journal of Biobased Materials and Bioenergy*, 5(1), 75-84.
10. Chazirakis P., Giannis A., Gidarakos E., Wang J.-Y., Stegmann R. (2011) Application of sludge, organic solid wastes and yard trimmings in aerobic compost piles. *Global NEST Journal*, 13(4), 405-411.
11. Nguyen S.T., Tan S.L.D., Lee J.-M., Chan S.H., Wang J.-Y., Wang X. (2011) Tb promoted Pd/C catalysts for the electrooxidation of ethanol in alkaline media. *International Journal of Hydrogen Energy*, 36(16), 9645-9652.
12. Niu D.J., Wang J.-Y., Wang B.Y., Zhao Y.C. (2011) Effect of Mo-containing additives on biohydrogen fermentation from cassava stillage. *International Journal of Hydrogen Energy*, 36, 5289-5295.
13. Qi W., Chen C.-L., Wang J.-Y. (2011) Reducing sugar-producing bacteria from guts of

Tenebrio Molitor Linnaeus (Yellow mealworm) for lignocellulosic waste minimization. *Microbes and Environments*, 26(4), 354-359.

14. Tsai T.T., Kao C.M., Wang J.-Y. (2011) Remediation of TCE-contaminated groundwater using Acid/BOF slag enhanced in situ chemical oxidation. *Chemosphere*, 83(5), 687-692.
15. Pelleria F., Giannis A., Anastasiadou K., Kalderis D., Stegmann R., Wang J.-Y., Gidaracos E. (2012) Adsorption of Cu(II) ions from aqueous solutions on biochars prepared from agricultural by-products. *Journal of Environmental Management*, 96, 35-42.
16. Yu Y.L., Lim K.H., Wang J.-Y., Wang X. (2012) CO adsorption behavior on decorated Pt[@]Au nanoelectrocatalysts: a combined experimental and DFT theoretical calculation study. *Journal of Physical Chemistry C*, 116(5), 3851-3856.
17. Zheng L.L., Zhang L., Wang J.-Y., Jiang S.P., Wang X. (2012) Effect of Pd-impregnation on performance, sulfur poisoning and sulphur tolerance of Ni/GDC anode of solid oxide fuel cells. *International Journal of Hydrogen Energy*, 37, 10299-10310.
18. Yong Y., Yu Y., Yang Y., Li C.M., Jiang R.R., Wang X., Wang J.-Y., Song H. (2012) Increasing intracellular releasable electrons dramatically enhances bioelectricity output in microbial fuel cells. *Electrochemistry Communications*, 19, 13-16.
19. Xiao P., Ge X.M., Zhang L., Lee J.M., Wang J.-Y., Wang X. (2012) H₂ and CH₄ oxidation on Gd_{0.2}Ce_{0.8}O_{1.9} infiltrated SrMoO₃- yttria-stabilized zirconia anode for solid oxide fuel cells. *International Journal of Hydrogen Energy*, 37, 18349-18356.
20. Yan Y., Zhang L., Qi X., Song H., Wang J.-Y., Zhang H., Wang X. (2012) Template-free pseudomorphic synthesis of tungsten carbide nanorods. *Small*, 8, 3350-3356.
21. Giannis A., Tay E., Kao J., Wang J.-Y. (2012) Impact of vertical electrokinetic-flushing technology to remove heavy metals and polycyclic aromatic hydrocarbons from contaminated soil. *Electrochimica Acta*, 86, 72-79.
22. Tan G.Y.A., Chen C.-L., Zhao L., Mo, Y., Chang, V.W.-C., Wang J.-Y. (2012) A HPLC-DAD method for rapid and high resolution analysis of concentrated BTEX and styrene aqueous samples. *Analytical Methods*, 4, 3545-3550.
23. Satyanaga A., Rahardjo H., Leong E.C., Wang J.-Y. (2012) Water characteristic curve of soil with bimodal grain-size distribution. *Computer and Geotechnics*, 48, 51-61.
24. Ng B.J.H., Giannis A., Chang V.W.-C., Stegmann R., Wang J.-Y. (2012) Modeling decentralized source-separation systems for urban waste management. *World Academy of Science, Engineering and Technology*, 68, 398-02.
25. Chen M., Giannis A., Wang J.-Y. (2012) Application of system dynamics model for municipal solid waste generation and landfill capacity evaluation in Singapore. *The Macrotheme Review*, 1(1), 101-114.
26. Lim J.W., Wang J.-Y. (2012) Enhanced hydrolysis and methane yield by applying microaeration pretreatment to the anaerobic co-digestion of brown water and food waste. *Waste Management*, 33, 813-819.
27. Yong Y., Cai Z., Yu Y., Chen P., Jiang R., Cao B., Sun J.-Z., Wang J.-Y., Song H. (2012) Increase of riboflavin biosynthesis underlies enhancement of extracellular electron transfer of *Shewanella* in alkaline microbial fuel cells. *Bioresource Technology*, 130, 763-768.
28. Yong Y., Yu Y., Yang Y., Liu J., Wang J.-Y., Song H. (2013) Enhancement of extracellular electron transfer and bioelectricity output by synthetic porin. *Biotechnology and Bioengineering*, 110(2), 408-416.
29. Mo Y., Zhao L., Chen C.-L., Tan G.Y.A., Wang J.-Y. (2013) Comparative pyrolysis upcycling of polystyrene waste: thermodynamics, kinetics, and product evolution profile. *Journal of Thermal Analysis and Calorimetry*, 111(1), 781-788.
30. Chen C.-L., Qi W., Wang J.-Y. (2013) Microbial cocktail for bioconversion of green waste to reducing sugars. *Journal of Bioscience and Bioengineering*, 115(1), 82-85.
31. Lim C.Y., Chen C.-L., Wang J.-Y. (2013) A strategy for urban outdoor production of high-concentration algal biomass for green biorefining. *Bioresource Technology*, 135, 175-181.

32. Zhang J., Giannis A., Chang V.W.-C., Ng B.J.H., Wang J.-Y. (2013) Adaptation of urine source separation in tropical cities: Process optimization and odor mitigation. *Journal of the Air and Waste Management Association*, 63(4), 472-481.
33. Rajagopal R., Lim J.W., Mao Y., Chen C.-L., Wang J.-Y. (2013) Anaerobic co-digestion of source segregated brown water (feces-without-urine) and food waste: For Singapore context. *Science of the Total Environment*, 443, 877-886.
34. Zhang J., Chang V.W.-C., Giannis A., Wang J.-Y. (2013) Removal of cytostatic drugs from aquatic environment: A review. *Science of the Total Environment*, 445-446, 281-298.
35. Yan Y., Xia B., Qi X., Wang H., Xu R., Wang J.-Y., Zhang H., Wang X. (2013) Nano-tungsten carbide decorated graphene as co-catalysts for enhanced hydrogen evolution on molybdenum disulfide. *Chemical Communication*, 49, 4884-4886.
36. Yan Y., Ge X., Liu Z., Wang J.-Y., Lee J.M., Wang X. (2013) Facile synthesis of low crystalline MoS₂ nanosheet-coated CNTs for enhanced hydrogen evolution reaction. *Nanoscale*, 5(17), 7768-7771.
37. Wang H., Xia B., Yan Y., Li N., Wang J.-Y., Wang X. (2013) Water-soluble polymer exfoliated graphene: as catalyst support and sensor. *Journal of Physical Chemistry B*, 117, 5606-5613.
38. Wang Y., Liu H., Wang H., Du X., Wang F., Wang L., Qi T., Wang J.-Y., Lee J.-M., Wang X. (2013) Pd catalyst supported on chitosan-functionalized large-area 3D reduced graphene oxide for formic acid electrooxidation reaction. *Journal of Materials Chemistry*, 1(23), 6839-6848.
39. Nguyen T., Yu Y., Wang X., Wang J.-Y., Song H. (2013) 3D mesoporous polysulfone-carbon nanotube anode for enhanced bioelectricity output in microbial fuel cells. *Chemical Communications*, 49, 10754-10756.
40. He C., Giannis A., Wang J.-Y. (2013) Conversion of sewage sludge to clean solid fuel using hydrothermal carbonization: Hydrochar fuel characteristics and combustion behaviour. *Applied Energy*, 111, 257-266.
41. Hu C.C., Giannis A., Chen C.-L., Qi W., Wang J.-Y. (2013) Comparative study of biohydrogen production by four dark fermentative bacteria. *International Journal of Hydrogen Energy*, 38(35), 15686-15692.
42. Rahardjo H., Satyanaga A., Leong E.-C., Wang J.-Y. (2013) Unsaturated properties of recycled concrete aggregate and reclaimed asphalt pavement. *Engineering Geology*, 161, 44-54.
43. Liu B., Giannis A., Zhang J., Chang V.W.-C, Wang J.-Y. (2013) Characterization of induced struvite formation from source-separated urine using seawater and brine as magnesium sources. *Chemosphere*, 93(11), 2738-2747.
44. Lim J.W., Chen C.-L., Ho I.J.R., Wang J.-Y. (2013) Study of microbial community and biodegradation efficiency for single- and two-phase anaerobic co-digestion of brown water and food waste. *Bioresource Technology*, 147, 193-201.
45. Yan Y., Xia B.-Y., Ge X., Liu Z., Wang J.-Y., Wang X. (2013) Ultrathin MoS₂ nanoplates with rich active sites as highly efficient catalyst for hydrogen evolution. *ACS Applied Materials and Interfaces*, 5(24), 12794-12798.
46. He C., Chen C.-L., Xu Z.R., Wang J.-Y. (2014) Highly efficient secondary dewatering of dewatered sewage sludge using low boiling point solvents. *Environmental Technology*, 35(1), 95-103.
47. Li N., Yan Y., Xia B.-Y., Wang J.-Y., Wang X. (2014) Novel tungsten carbide nanorods: An intrinsic peroxidase mimetic with high activity and stability in aqueous and organic solvents. *Biosensors and Bioelectronics*, 54, 521-527.
48. Tan G.-Y.A., Chen C.-L., Li L., Ge L., Wang L., Razaad I.M.N., Li Y., Zhao L., Mo Y., Wang J.-Y. (2014). Start a research on biopolymer polyhydroxyalkanoate (PHA): A review. *Polymers*, 6, 706-754.
49. Tan G.-Y.A., Chen C.-L., Ge L., Li L., Wang L., Zhao L., Mo Y., Tan S.N., Wang J.-Y. (2014) Enhanced gas chromatography-mass spectrometry method for bacterial

polyhydroxyalkanoates (PHAs) analysis. *Journal of Bioscience and Bioengineering*, 117, 379-382.

50. Yuan G.A., Chen D.Z., Yin L.J., Wang Z.H., Zhao L., Wang J.-Y. (2014) High efficiency chlorine removal from polyvinyl chloride (PVC) pyrolysis with a gas-liquid fluidized bed reactor. *Waste Management*, 34(6), 1045-1050.
51. Mo Y., Zhao L., Wang Z., Chen C.-L., Tan G.-Y.A., Wang J.-Y. (2014) Enhanced Styrene recovery from waste polystyrene pyrolysis using response surface methodology coupled with box-behnken design. *Waste Management*, 34(4), 763-769.
52. Zhang J., She Q., Chang V.W.C., Tang C.Y., Webster R. (2014) Mining nutrients (N,K,P) from urban source-separated urine by forward osmosis dewatering. *Environmental Science and Technology*, 48, 3386-3394.
53. Ng B.J.H., Zhou J., Giannis A., Chang V.W.C., Wang J.-Y. (2014) Environmental life cycle assessment of different domestic wastewater streams: Policy effectiveness in a tropical urban environment. *Journal of Environmental Management*, 140, 60-68.
54. Xiao P., Yan Y., Ge X., Liu Z., Wang J.-Y., Wang X. (2014) Investigation of molybdenum carbide nano-rod as an efficient and durable electrocatalyst for hydrogen evolution in acidic and alkaline media. *Applied Catalysis B: Environmental*, 154-155, 232-237.
55. He C., Chen C.-L., Giannis A., Yang Y., Wang J.-Y. (2014) Hydrothermal gasification of sewage sludge and model compounds for renewable hydrogen recovery: A review. *Renewable and Sustainable Energy Reviews*, 39, 1127-1142.
56. Wang K., Li X., He C., Chen C.-L., Wu C., Bai J., Ren N., Wang J.-Y. (2014) Transformations of dissolved organic matters in swine, cow and chicken manures during the composting. *Bioresource Technology*, 168, 222-228.
57. Zhang S.S., Lim C.Y., Chen C.-L., Liu H., Wang J.-Y. (2014) Urban nutrient recovery from fresh human urine through cultivation of *Chlorella sorokiniana*. *Journal of Environmental Management*, 145, 129-136.
58. Rajagopal R., Ahamed A., Wang J.-Y. (2014) Hydrolytic and acidogenic fermentation potential of food waste with source segregated feces-without-urine as co-substrate. *Bioresource Technology*, 167, 564-568.
59. Wang K., Li W.G., Gong X.J., Li X.K., Liu W.J., He C., Wang Z., Quan N. M., Chen C.-L., Wang J.-Y. (2014) Biological pretreatment of tannery wastewater using a full-scale hydrolysis acidification system. *International Biodeterioration and Biodegradation*, 95, 41-45.
60. Lim J.W., Chiam, J.A., Wang J.-Y. (2014) Microbial community structure reveals how microaeration improves fermentation during anaerobic co-digestion of brown water and food waste. *Bioresource Technology*, 171, 132-138.
61. Sekar N.C., Shaegh S.A.M., Ng S.H., Ge L., Tan S.N. (2014) Simple thick-film thread-based voltammetric sensors. *Electrochemistry Communications*, 46, 128-131.
62. Sekar N.C., Shaegh S.A.M., Ng S.H., Ge L., Tan S.N. (2014) A paper-based amperometric glucose biosensor developed with Prussian Blue-modified screen-printed electrodes. *Sensors and Actuators B: Chemical*, 204, 414-420.
63. Ng Y.F., Ge L., Chan W.K., Tan S.N., Yong J.W.H., Tan T.T.Y. (2015) An environmentally friendly approach to treat oil spill: Investigating the biodegradation of petrodiesel in the presence of different biodiesels. *Fuel*, 139, 523-528.
64. He C., Wang K., Yang Y.H., Wang J.-Y. (2014) Utilization of sewage-sludge-derived hydrochars toward efficient cocombustion with different-rank coals: effects of subcritical water conversion and blending scenarios. *Energy and Fuels*, 28(9), 6140-6150.
65. Hu C.C., Giannis A., Chen C.-L., Wang J.-Y. (2014) Evaluation of hydrogen producing cultures using pretreated food waste. *International Journal of Hydrogen Energy*, 39, 19337-19342.
66. Yin K., Giannis A., Wong A.S.Y., Wang J.-Y. (2014) EDTA enhanced thermal washing of contaminated dredged marine sediments for heavy metal removal. *Water, Air, and Soil Pollution*, 225(8), 2024.

67. Tan S.N., Yong J.W.H., Ge L. (2014) Analyses of phytohormones in coconut (*Cocos Nucifera* L.) water using capillary electrophoresis-tandem mass spectrometry. *Chromatography*, 1(4), 211-226.
68. Liu B., Giannis A., Zhang J., Chang V.W.-C., Wang J.-Y. (2015) Air stripping process for ammonia recovery from source-separated urine: modeling and optimization. *Journal of Chemical Technology and Biotechnology*, 90(12), 2208-2217.
69. Lin W.Y., Heng K.S., Sun X.L., Wang J.-Y. (2015) Accelerated carbonation of different size fractions of MSW IBA and the effect on leaching. *Waste Management*, 41, 75-84.
70. He C., Zheng J.W., Wang K., Lin H.Q., Wang J.-Y., Yang Y.H. (2015) Sorption enhanced aqueous phase reforming of glycerol for hydrogen production over Pt-Ni supported on multi-walled carbon nanotubes. *Applied Catalysis B: Environmental*, 162, 401-411.
71. Tan G.-Y.A., Chen C.-L., Ge L., Li L., Tan S.N., Wang J.-Y. (2015) Bioconversion of styrene to Poly(hydroxyalkanoate) (PHA) by a new bacterial strain *Pseudomonas putida* NBUS12. *Microbes and Environments*, 30(1), 76-85.
72. Yang L., Giannis A., Chang V.W.C., Liu B., Zhang J., Wang, J.-Y. (2015) Application of hydroponic systems for the treatment of source-separated human urine. *Ecological Engineering*, 81, 182-191.
73. Ahamed A., Chen C.-L., Rajagopal R., Wu D., Mao Y., Ho I.J.R., Lim J.W., Wang J.-Y. (2015) Multi-phased anaerobic baffled reactor treating food waste. *Bioresource Technology*, 182, 239-244.
74. Seviour T., Weerachanchai P., Hinks J., Roizman D., Rice S.A., Bai L., Lee J.-M., Kjelleberg S. (2015) Solvent optimization for bacterial extracellular matrices: a solution for the insoluble. *RSC Advances*, 5, 7469-7478.
75. Yin K., Tong H.H., Noh O., Wang J.-Y., Giannis A. (2015) Mapping refuse profile in Singapore old dumping ground through electrical resistivity, s-wave velocity and geotechnical monitoring. *Bulletin of Environmental Contamination and Toxicology*, 94(3), 275-281.
76. Tong H.H., Yin K., Ge L., Giannis A., Chuan W.L., Wang J.-Y. (2015) Monitored transitional profile of leachate humic substances in landfill aeration reactors in mesophilic and thermophilic conditions. *Journal of Hazardous Materials*, 287, 342-348.
77. Tong H.H., Yin K., Giannis A., Ge L., Wang J.-Y. (2015) Influence of temperature on carbon and nitrogen dynamics during in situ aeration of aged waste in simulated landfill bioreactors. *Bioresource Technology*, 192, 149-156.
78. Xin, L., Chu J., Wang J.-Y., Yin K., Tong H.H., Chia C.Y.H., Noh O.A.M. (2015) Geophysical methods for the investigation of a closed dumping ground. *Geomechanics and Engineering, An International Journal*, 8(5), 727-739.
79. He C., Wang K., Giannis A., Yang Y.H., Wang J.-Y. (2015) Products evolution during hydrothermal conversion of dewatered sewage sludge in sub- and near-critical water: Effects of reaction conditions and calcium oxide additive. *International Journal of Hydrogen Energy*, 40(17), 5776-5787.
80. He C., Wang K., Yang Y.H., Amaniampong P., Wang J.-Y. (2015) Effective nitrogen removal and recovery from sewage sludge using a novel integrated system of accelerated hydrothermal deamination and air stripping. *Environmental Science and Technology*, 49(11), 6872-6880.
81. Sekar N.C., Ge L., Shaegh S.A.M., Ng S.H., Tan S.N. (2015) A mediated turnip tissue paper-based amperometric hydrogen peroxide biosensor. *Sensors and Actuators B: Chemical*, 210, 336-342.
82. Zhang H., Tan S.N., Teo C.H., Yew Y.R., Ge L., Chen X., Yong J.W.H. (2015) Analysis of phytohormones in vermicompost using a novel combinative sample preparation strategy of ultrasound-assisted extraction and solid-phase extraction coupled with liquid chromatography-tandem mass spectrometry. *Talanta*, 139, 189-197.
83. Lin W.Y., Heng K.S., Sun X.L., Wang J.-Y. (2015) Influence of moisture content and temperature on degree of carbonation and the effect on Cu and Cr leaching from incineration bottom ash. *Waste Management*, 43, 264-272.

84. Liu A., Ren F., Lin W.Y., Wang J.-Y. (2015) A review of municipal solid waste environmental standards with a focus on incinerator residues. *International Journal of Sustainable Built Environment*, 4(2), 165-188.
85. Veksha A., Bhuiyan T.I., Hill J.M. (2016) Activation of aspen wood with carbon dioxide and phosphoric acid for removal of total organic carbon from oil sands produced water: Increasing the yield with bio-oil recycling. *Materials*, 9, 20.
86. Menon A., Ren F., Wang J.-Y., Giannis A. (2016) Effect of pretreatment techniques on food waste solubilization and biogas production during thermophilic batch anaerobic digestion. *Journal of Material Cycles and Waste Management*, 18(2), 222-230.
87. Ge L., Tan G.-Y.A., Wang L., Chen C.-L., Li L., Tan S.N., Wang J.-Y. (2016). Determination of monomeric composition in polyhydroxyalkanoates by liquid chromatography coupled with on-line mass spectrometry and off-line nuclear magnetic resonance, *Talanta*, 146, 107-113.
88. Pan C.Z., Ge L., Chen C.-L., Wang J.-Y. (2016). Tricky cyclic voltammetry peaks in glycerol fermentation: microbial excreted organics or others? *Journal of Electroanalytical Chemistry*, 771, 23-28.
89. Ahamed A., Yin K., Ng B.J.H., Ren F., Chang V.W.-C., Wang J.-Y. (2016) Life cycle assessment of the present and proposed food waste management technologies from environmental and economical impact perspectives. *Journal of Cleaner Production*, (In press).
90. Pan, C., Tan, G.-Y. A., Ge, L., Chen, C.-L., et al. (2016b). Microbial removal of carboxylic acids from 1,3-propanediol in glycerol anaerobic digestion effluent by PHAs-producing consortium. *Biochemical Engineering Journal*, 112, 269-276.
91. Lin S.X., Zhou X.D., Ge L., Ng S.H., Zhou X., Chang V.W.-C. (2016). Development of an accelerated leaching method for incineration bottom ash correlated to toxicity characteristic leaching protocol, *Electrophoresis*, (In press).
92. Zhao L., Giannis A., Lam W.Y., Lin S.X., Yin K., Yuan G.A., Wang J.-Y. (2016) Characterization of Singapore RDF resources and analysis of their heating value. *Sustainable Environment Research*, (In press).
93. Yin K., Tong H.H., Giannis A., Chang V.W.-C, Wang J.-Y. (2016) Insights for contaminant transformation via monitored natural attenuation - Effects of DOC, time and hydrogeology. *Waste Management*, (In press).
94. Giannis A., Chen M., Yin K., Tong H.H., Veksha A. (2016) Application of system dynamics modeling for evaluation of different recycling scenarios in Singapore. *Journal of Material Cycles and Waste Management*, 53, 105-115.
95. Liu B., Giannis A., Chen A., Zhang J., Chang V.W.-C., Wang J.-Y. (2016) Determination of urine-derived odorous compounds in a source separation sanitation system. *Journal of Environmental Sciences*, (In press).
96. Chan, W.P. and Wang, J.-Y. (2016) "Comprehensive characterisation of sewage sludge for thermochemical conversion processes – Based on Singapore survey." *Waste Management*, Vol. 54, pp. 131-142. Published in August 2016 <http://dx.doi.org/10.1016/j.wasman.2016.04.038>
97. Chan, W.P. and Wang, J.-Y. (2016) "Comparison study on thermal degradation behaviours and product distributions for various types of sludge by using TG-FTIR and fixed bed pyrolysis." *Journal of Analytical and Applied Pyrolysis*, Vol. 121 pp. 177-189. Published in September 2016. <http://dx.doi.org/10.1016/j.jaap.2016.07.019>
98. Yang L., Schmalz C., Zhou J., Zwiener C., Chang V.W.-C., Ge L., Wan M.P. (2016). An insight of disinfection by-product (DBP) formation by alternative disinfectants for swimming pool disinfection under tropical conditions, *Water Research*, 101, 535–546. (Publication Date: 15 Sep. 2016)
99. Investigation into the Catalytic Activity of Microporous and Mesoporous Catalysts in the Pyrolysis of Waste Polyethylene and Polypropylene Mixture, Kaixin Li , Shao Wee Lee, Guoan Yuan, Junxi Lei, Shengxuan Lin, Piyarat Weerachanchai, Yanhui Yang and Jing-Yuan Wang, *Energies* 2016, 9(6), 431; doi:10.3390/en9060431, Accepted: 26 May 2016

100. Tow S.W., Eng Z.X., Wong S.P., Ge L., Tan S.N., Yong J.W. (2016). *Axonopus compressus* (Sw.) Beauv.: A Potential Biomonitor for Molybdenum in Soil Pollution, *International Journal of Phytoremediation*, in press 10.1080/15226514.2016.1207599. (Available online: 19 Jul 2016)
101. Yang, L., Zhou, J., She, Q., Wan, M.P., Wang, R., Chang, V.W.C., Tang, C.Y., 2016. Role of calcium ions on the removal of haloacetic acids from swimming pool water by nanofiltration: Mechanisms and implications. *Water Research*.
102. W.-D. Oh, Z. Dong, T.-T. Lim (2016). Generation of sulfate radical through heterogeneous catalysis for organic contaminants removal: Current development, challenges and prospects, *Appl. Catal. B: Environ.*, 194,169-201.
103. W.-D. Oh, Z. Dong, T.-T. Lim (2017). Hierarchically-structured Co–CuBi₂O₄ and Cu–CuBi₂O₄ for sulfanilamide removal via peroxymonosulfate activation, *Catal. Today*, 280, Part 1, 2-7.
104. W.-D. Oh, Z. Dong, R. Goei, T.-T. Lim (2017). Surface–active bismuth ferrite as superior peroxymonosulfate activator for aqueous sulfamethoxazole removal: Performance, mechanism and quantification of sulfate radical, *Journal of Hazardous Materials*, 325, 71-81. (Accepted)
105. Lei, J., Yuan, G., Weerachanchai, P., Lee, S. W., Li, K., Wang, J. Y., & Yang, Y. Investigation on thermal dechlorination and catalytic pyrolysis in a continuous process for liquid fuel recovery from mixed plastic wastes. *Journal of Material Cycles and Waste Management*, 1-10. DOI: 10.1007/s10163-016-0555-3. Accepted on Oct.12, 2016 (In press)
106. Yin K., Tong H.H., Giannis A., Wang J.-Y., Chang V.W.-C. (2016) Multiple geophysical surveys for old landfill monitoring in Singapore. *Environmental Monitoring and Assessment*, 189(20): 1-13. (First Online: 15 December 2016), doi: 10.1007/s1066101657224 (In press). (Accepted 29 November 2016)
107. Menon A., Wang J.-Y., Giannis A. (2016) Optimization of micronutrient supplement for enhancing biogas production from food waste in two-phase thermophilic anaerobic digestion. *Waste Management*, 59, 465 – 475. (Available online: 17 October 2016)
108. Zhang Q., Yang F.-Q., Ge L., Hu Y.-J., Xia Z.-N., Recent applications of hydrophilic interaction liquid chromatography in pharmaceutical analysis, *Journal of Separation Science*, in press 10.1002/jssc.201600843 (Available online: 13 October 2016)
109. Pan C., Tan S.N., Yong J.W. H., Ge L., Progress and development of analytical methods for gibberellins, *Journal of Separation Science*, in press 10.1002/jssc.201600857 (Available online: 14 October 2016)
110. Lin W.Y., Heng K.S., Nguyen M.Q., Ho J.R.I., Mohamed Noh O., Zhou X.D., Liu A., Ren F., Wang J.-Y. (2016), Evaluation of the leaching behavior of incineration bottom ash using seawater: A comparison with standard leaching tests. *Waste Management*. (Accepted 2 December 2016)
111. Yin K., Li L., Giannis A., Weerachanchai P., Ng B.J.H., Wang J.-Y. (2017), High-quality fuel from food waste – investigation of a stepwise process from the perspective of technology development. *Environmental Technology*. DOI: 10.1080/09593330.2017.1297851 (Accepted 11 Feb 2017, Published online: 08 Mar 2017.)
112. Veksha A., Giannis A., Chang V.W.-C. (2017), Conversion of non-condensable pyrolysis gases from plastics into carbon nanomaterials: Effects of feedstock and temperature. *Journal of Analytical and Applied Pyrolysis*, 124 (2017) 16–24. (Accepted 7 March 2017) Top 10% of journals by field
113. Yang, L., She, Q., Wan, M.P., Wang, R., Chang, V.W.C., Tang, C.Y., 2017. Removal of haloacetic acids from swimming pool water by reverse osmosis and nanofiltration. *Water Research* 116, 116-125. Top 10% of journals by field
114. Yang, L., Zhou, J., She, Q., Wan, M.P., Wang, R., Chang, V.W.C., Tang, C.Y., 2017. Role of calcium ions on the removal of haloacetic acids from swimming pool water by nanofiltration: mechanisms and implications. *Water Research* 110, 332-341. Top 10% of journals by field

115. W.D. Oh, Victor C.W. Chang and T.T. Lim (2017). A comprehensive performance evaluation of heterogeneous Bi₂Fe₄O₉/peroxymonosulfate system for sulfamethoxazole degradation, *Environmental Science and Pollution Research*, In Press. (Available online 27 January 2017)
116. Wang Z.-X., Wang J.-Y., Yu X.-H., Kong F.-Y., Wang W.-J., Lv W.-X., Ge L., Wang W. (2017). Synergistic contributions by decreasing overpotential and enhancing electrocatalytic reduction in ONPCNRs/SWCNTs nanocomposite for highly sensitive nonenzymatic detection of hydrogen peroxide, *Sensors and Actuators B: Chemical*, 246, 726–733. (Available online: 24 February 2017; Expected to publish: July 2017; top 10% of journals by field)
117. Yong J.W.H., Ge L., Wong W.S., Ma Z., Tan S.N. (2017). Analyses of indole compounds in sugar cane (*Saccharum officinarum* L.) juice by high performance liquid chromatography and liquid chromatography-mass spectrometry after solid-phase extraction, *Separations*, 4(1), 7. (Published: 15 March 2017)
118. Dou, X., Ren, F., Nguyen, M.Q., Ahamed, A., Yin, K., Chan, W.P., Chang, V.W.C. (2017) Review of MSWI bottom ash utilization from perspectives of collective characterization, treatment and existing application. *Renewable & Sustainable Energy Reviews*, 79: 24-38. (#9/691, Top 10% of journals by Subject Area and Category: Energy, in SJR ranking 2016)
119. Yin, K., Chan, W.P., Dou, X., Ren, F., Chang, V.W.C. (2017) Measurements, factor analysis and modeling of element leaching from incineration bottom ashes for quantitative component effects. *Journal of Cleaner Production*, 165: 477-490. (#20/273, Top 10% of journal by Subject Area and Category: Environmental Science, in SJR ranking 2016)
120. Yin, K., Li, P.Z., Chan, W.P., Dou, X., Wang, J.Y. (2017) Characteristic Heavy Metal Release of Chemical Washing MSWI Fly Ash from Two Sequential Collections. *Journal of material Cycles and Waste Management*, DOI: 10.1007/s10163-017-0631-3.
121. W.D. Oh, Victor C.W. Chang, Z.T. Hu, and T.T. Lim (2017). Enhancing the catalytic activity of g-C₃N₄ through Me doping (Me = Cu, Co and Fe) for selective sulfathiazole degradation via redox-based advanced oxidation process, *Chemical Engineering Journal*, 323, 260-269 (September 2017).
122. W.D. Oh, L.W. Lok, A. Veksha, A. Giannis, T.T. Lim (2018). Enhanced photocatalytic degradation of bisphenol A with Ag-decorated S-doped g-C₃N₄ under solar irradiation: Performance and mechanistic studies, *Chemical Engineering Journal*, 333, 739-749. (February 2018) top 10% of journals by field
123. K.Y. Leong, S.L. Loo, M.J.K. Bashir, W.D. Oh, P.V. Rao, J.W. Lim (2017). Bioregeneration of spent activated carbon: Review of key factors and recent mathematical models of kinetics, *Chinese Journal of Chemical Engineering*, Accepted. (Available online: October 2017)
124. A. Veksha, A. Giannis, W.D. Oh, Victor C.W. Chang, G. Lisak (2018). Upgrading of non-condensable pyrolysis gases from mixed plastics through catalytic decomposition and dichlorination, *Fuel Processing Technology*, 170, 13-20. (February 2018) top 10% of journals by field
125. W.D. Oh, J.X. Lei, A. Veksha, A. Giannis, G. Lisak, V.C.W. Chang, X. Hu, T.T. Lim (2018). Influence of surface morphology on the performance of nanostructured ZnO-loaded ceramic honeycomb for syngas desulfurization, *Fuel*, 211, 591-599. (January 2018) top 10% of journals by field
126. Z.T. Hu, W.D. Oh, Y. Liu, E.H. Yang, T.T. Lim (2018). Controllable Mullite Bismuth Ferrite Micro/Nanostructures for Switchable Catalytic Degradation of Water Pollutant, *Journal of Colloid and Interface Science*, 509, 512-514. (January 2018)
127. Yin, K., X. Dou, F. Ren, W.-P. Chan, V.W.-C. Chang (2018) Statistical comparison of leaching behavior of incineration bottom ash using seawater and deionized water: Significant findings based on several leaching methods. *Journal of Hazardous Materials*, 344, 635-648. (top 10% of journals by field)
128. Chan, W. P., & Wang, J.-Y. (2018). Characterisation of sludge for pyrolysis conversion process based on biomass composition analysis and simulation of pyrolytic properties. *Waste Management*, 72, 274-286. (Published February 2018)
129. Yin, K., Chan, W. P., Dou, X., Ren, F., & Wei-Chung Chang, V. (2018). Cr, Cu, Hg and Ni release from incineration bottom ash during utilization in land reclamation – based on lab-

- scale batch and column leaching experiments and a modeling study. *Chemosphere*, 197, 741-748. (Published April 2018)
130. Yin, K., Chan, W.-P., Dou, X., Lisak, G., & Chang, V. W.-C. Co-complexation effects during incineration bottom ash leaching via comparison of measurements and geochemical modeling. *Journal of Cleaner Production*, 189, 155-168. (Accepted April 2018) top 10% of journals by field
 131. Oh W.D., Lisak G., Webster R., Liang Y.-N., Veksha A., Giannis A., Moo J.G.S., Lim J.-W., Lim T.-T. (2018) Unravelling the thermolytic transformation of lignocellulosic biomass waste to redox-active carbocatalyst: Durability of surface active sites. *Applied Catalysis B: Environmental*, 233, 120 – 129. (March 2018) top 10% of journals by field)
 132. Veksha A., Giannis A., Oh W.D., Chang V.W.C., Lisak G., Lim T.-T. (2018) Catalytic activities and resistance to HCl poisoning of Ni-based catalysts during steam reforming of naphthalene. *Applied Catalysis A: General*, 557, 25 – 38. (March 2018) top 10% of journals by field)
 133. X. Chen, W.D. Oh, Z.T. Hu, Y.M. Sun, R.D. Webster, S.Z. Li, T.T. Lim (2018). Enhancing sulfacetamide degradation by peroxymonosulfate activation with N-doped graphene produced through delicately-controlled nitrogen functionalization via tweaking thermal annealing processes, *Applied Catalysis B: Environmental*, 225, 243-257.
 134. Udayanga C.W.D., Veksha A., Giannis A., Lisak G., Chang V.W-C., Lim T.-T. (2018) Fate and distribution of heavy metals during thermal processing of sewage sludge. *Fuel* (accepted). (April 2018) top 10% of journals by field)
 135. Hu C.C., Choy S.-Y., Giannis A. (2018) Evaluation of lighting systems, carbon sources and bacteria cultures on photo fermentative hydrogen production. *Applied Biochemistry and Biotechnology* (in press). (November, 2017)
 136. Loh C. H., Wu B., Ge L., Pan C. Z., Wang R. (2018). High-strength N-methyl-2-pyrrolidone-containing process wastewater treatment using sequencing batch reactor and membrane bioreactor: A feasibility study, *Chemosphere*, 194, 534-542. (Publication Date: March 2018; top 10% of journals by field)
 137. Chan W.P., Wang J.Y. (2018). Formation of synthetic sludge as a representative tool for thermochemical conversion modelling and performance analysis of sewage sludge – Based on a TG-FTIR study. *Journal of Analytical and Applied Pyrolysis*. Accepted April 2018.
 138. Oh W.D., Lei J., Veksha A., Giannis A., Chan W.P., Lisak G., Lim T.-T. (2018) Ni-Zn-based nanocomposite loaded on cordierite mullite ceramic for syngas desulfurization: Performance evaluation and regeneration studies. *Chemical Engineering Journal*, 351, 230 – 239. (Accepted in June; top 10% of journals by field)
 139. Veksha A., Giannis A., Oh W.D., Lisak G. (2018) Catalytic processing of non-condensable pyrolysis gas from plastics: Effects of calcium supports on nickel-catalyzed decomposition of hydrocarbons and HCl sorption. *Chemical Engineering Science*, 189, 311 – 319. (Accepted in June)
 140. Udayanga C.W.D., Veksha A., Giannis A., Lisak G., Chang V.W-C., Lim T.-T. (2018) Fate and distribution of heavy metals during thermal processing of sewage sludge. *Fuel*, 226, 721 – 741. (Accepted in April; top 10% of journals by field)
 141. Oh W.D., Lisak G., Webster R., Liang Y.-N., Veksha A., Giannis A., Moo J.G.S., Lim J.-W., Lim T.-T. (2018) Unravelling the thermolytic transformation of lignocellulosic biomass waste to redox-active carbocatalyst: Durability of surface active sites. *Applied Catalysis B: Environmental*, 233, 120 – 129. (Accepted in March; top 10% of journals by field)
 142. Veksha A., Giannis A., Oh W.D., Chang V.W.C., Lisak G., Lim T.-T. (2018) Catalytic activities and resistance to HCl poisoning of Ni-based catalysts during steam reforming of naphthalene. *Applied Catalysis A: General*, 557, 25 – 38. (Accepted in March; top 10% of journals by field)
 143. Yin, K., Ahamed, A., Lisak, G. (2018) Environmental perspectives of recycling various combustion ashes in cement production – a review. *Waste Management*, 78, 401-416. (Top 10% of journals by field)
 144. Chan, W.P., Dou, X., Ren, F., Yin, K., Chang, V.W.C. (2018) A large-scale field trial experiment to measure effective release of heavy metals from incineration bottom ashes

during construction in land reclamation. *Science of the Total Environment*, 637-638, 182-190. (Top 10% of journals by field)

Conference Papers:

1. Qi W., Wang J.-Y. (2010) Characterization of microbial community from mealworm guts during conversion of lignocellulose to reducing sugars for bioethanol production. Renewable Energy Conference (RE2010). 27 June–2 July, Yokohama, Japan.
2. Chen C.-L. (2010) Environmental resource: leveraging on microorganism for waste management and bioenergy recovery. Green Biotechnology International Symposium: International Cooperation for Promoting the Development of Green Biotech Industry. 1 October, Pingtung, Taiwan.
3. Wang J.-Y., Qi W., Stegmann R. (2010) Optimization of microbial conversion of lignocellulosic waste to reducing sugars, Third International Symposium on Energy from Biomass and Waste (VENICE 2010). 8–11 November, Venice, Italy.
4. Wang J.-Y., Qi W., Chen C.-L. (2010) Enhancement of microbial hydrolysis of lignocellulosic waste to reducing sugars by different pretreatment methods. International Conference on Bioenergy from Wastes: Green Chemistry Intervention. 25–26 November, Nehru Marg, Nagpur, India.
5. Wang J.-Y. (2011) A Decentralization-based approach to urban waste management: moving towards sustainable resource management. International Conference on Solid Waste Management: Towards Sustainable Resource Management. 2–6 May, Hong Kong, SAR China.
6. Lim J.W. (2011) Anaerobic co-digestion of brown water and food Waste for energy recovery, 11th Edition of the World Wide Workshop for Young Environmental Scientists. 5–10 June 2011, Arcueil, France.
7. Wang J.-Y. (2011) A Decentralization-based approach to urban waste management. Urban Sustainability R&D Congress: Collaborate, Integrate, Innovate. 27–28 June, Singapore.
8. Giannis A., Tay E., Kao J., Wang J.-Y. (2011) Upward electrokinetic removal of heavy metals and PAHs from contaminated soil. 10th International Symposium on Developments in Electrokinetic Remediation of Soils, Sediments and Construction Materials, 17–20 July, Utrecht, The Netherlands.
9. Giannis A., Wang J.-Y., Gidarakos E. (2011) Study of sequential extraction analysis on electrokinetic removal of heavy metals from soils. 10th International Symposium on Developments in Electrokinetic Remediation of Soils, Sediments and Construction Materials, 17–20 July, Utrecht, The Netherlands.
10. Zhao L., Chen D., Wang Z., Ma X., Zhou G. (2011) Pyrolysis of waste plastics and whole combustible components separated from municipal solid wastes: comparison of products and emissions. Sardinia 2011-Thirteenth International Waste Management and Landfill Symposium. 3–7 October, Sardinia, Italy.
11. Zhao L., Chen D., Ma X., Zhou G. (2011) Pyrolysis of waste plastics separated from municipal solid wastes: products, emissions and influences caused by other waste components. Sardinia 2011-Thirteenth International Waste Management and Landfill Symposium. 3–7 October, Sardinia, Italy.
12. Chen C.-L., Tan G.Y.A., Wang J.-Y. (2011) Polyhydroxyalkanoate (PHA) production from organic solid waste. Cross Taiwan Strait Conference on Urban Solid Waste Sustainability and Management. 21–24 October, Xiamen, China.
13. Qi W., Chen C.-L., Wang J.-Y. (2011) Developing a unique microbial hydrolysis process for converting lignocellulosic waste to reducing sugars. Cross Taiwan Strait Conference on Urban Solid Waste Sustainability and Management. 21–24 October, Xiamen, China.

14. Wang J.-Y., Chang V., Lee C.S., Wang X., Stegmann R. (2011) A Decentralization-based approach to urban waste management. Cross Taiwan Strait Conference on Urban Solid Waste Sustainability and Management. 21–24 October, Xiamen, China.
15. Yin K., Xin L., Chia C.Y., Tong H.H., Wang J.-Y. (2011) Sustainable reclamation and reuse of closed dumping ground in Singapore. Cross Taiwan Strait Conference on Urban Solid Waste Sustainability and Management. 21–24 October, Xiamen, China.
16. Zhao L., Mo Y., Wang J.Y. (2011) Pyrolysis for waste plastics recycling. Cross Taiwan Strait Conference on Urban Solid Waste Sustainability and Management. 21–24 October, Xiamen, China.
17. Ng B., Giannis A., Chang V., Stegmann R., Wang J.-Y. (2011) Modelling decentralized source-separation systems for urban waste management. 3rd CUTSE International Conference, 8–9 November, Sarawak, Malaysia.
18. Rajagopal R., Lim J.W., Ajay M., Mao Y., Chia H., Stegmann R., Wang J.-Y. (2011) Preliminary investigations on the performance of Single-stage and two-phase CSTR for the treatment of brown water and food waste co-digestion in DESAR concepts. 9th International Symposium on Southeast Asian Water Environment. 1–3 December, Bangkok, Thailand.
19. Wang J.-Y. (2011) Developing a unique microbial hydrolysis process for converting lignocellulosic waste to reducing sugars. The 2nd i-BioP Asia Symposium. 15 December, Pohang, Korea.
20. Rajagopal R., Mao Y., Lim J.W., Ho I., Stegmann R., Wang J.-Y. (2012) Anaerobic co-digestion of brown water and food waste in decentralized and source-separation-based sanitation concepts. 27th International conference on Solid waste Technology and Management. 11–14 March, Philadelphia, U.S.A.
21. Chen C.-L., Tan G.Y.A., Wang L., Wang J.-Y. (2012) Polyhydroxyalkanoate (PHA) production from waste. 2012 Jade Mountain Forum on Sustainable Environment. 19–22 April, Tainan, Taiwan.
22. Wang J.-Y. (2012) Communities as renewable resource recovery centres. 2012 Jade Mountain Forum on Sustainable Environment. 19–22 April, Tainan, Taiwan.
23. Lim J.W., Rajinikanth R., Mao Y., Ho I., Ahamed A, Wang J.-Y. (2012) Anaerobic co-digestion of brown water with kitchen waste in decentralized source-separation-based sanitation concepts. 8th International Conference on Global Assessment for Organic Resources and Waste Management (ORBIT 2012). 12–14 June, Rennes, France.
24. Mao Y., Lim J.W., Rajinikanth R., Ho I., Ahamed A, Wang J.-Y. (2012) Energy recovery from faeces and kitchen waste codigestion in decentralized, source-separation-based sanitation concepts. Water Convention 2012 in Singapore International Water Week. 1–5 July 2012, Singapore.
25. Qi W., Chen C.-L., Wang J.-Y. (2012) Developing a unique microbial hydrolysis process for converting lignocellulosic waste to reducing sugars for hydrogen production. International Conference on Hydrogen Production. 24–27 July, Seoul, Korea.
26. Mo Y., Zhao L., Chen C.-L., Tan G.Y.A., Wang J.-Y. (2012) Recovery of aromatics from municipal plastic waste of Singapore. 3rd International Conference and Exhibition on Solid Waste Management (IconSWM). 30 July–1 August, Mysore, India.
27. Chia C.Y.-H., Yin K., Xin L., Noh O., Tong H., Wang J.-Y. (2012) Integrated site characterization of an old dumping ground in Singapore using geophysical and geotechnical methods. Seminar and Workshop on Landfill Operation & Management in Tropical Country, 27–28 August, Banda Aceh, Indonesia.
28. Yin K., C.Y.-H., Xin L., Noh O., Tong H., Wang J.-Y. (2012) Comparison of two geophysical methods for characterization of old dumping grounds. Seminar and Workshop on Landfill Operation & Management in Tropical Country, 27–28 August, Banda Aceh, Indonesia.
29. Noh O., C.Y.-H., Xin L., Tong H., Yin K., Wang J.-Y. (2012) Enhanced reclamation package for closed urban dumping grounds. Proceedings Landfill Operation & Management in Tropical Country, Seminar and Workshop on Landfill Operation & Management in Tropical Country, 27–28 August, Banda Aceh, Indonesia.

30. Tong H., Yin K., C.Y.-H., Xin L., Noh O., Wang J.-Y. (2012) Feasibility study of in-situ aeration on tropical closed landfill. Seminar and Workshop on Landfill Operation & Management in Tropical Country, 27–28 August, Banda Aceh, Indonesia.
31. Wang J.-Y. (2012) Sustainable urban waste management for 2020. International Workshop on Kitchen Waste-Based Bioenergy. 28–29 August, Taichung, Taiwan.
32. Giannis A., Chen M., Stegmann R., Wang J.-Y. (2012) Effect of sodium acetate as pH amendment on the co-composting of food and horticultural waste. CRETE 2012: 3rd International Conference on Industrial and Hazardous Waste Management. 12–14 September, Chania, Crete, Greece.
33. Giannis A., Lim R.K., Wang J.-Y. (2012) Electrokinetic dewatering of sewage sludge in vertical electric field: Effect of potential gradient. CRETE 2012: 3rd International Conference on Industrial and Hazardous Waste Management. 12–14 September, Chania, Crete, Greece.
34. Lin W.Y., Wang J.-Y. (2012) Investigation on accelerated carbonation of MSW incineration bottom ash for application of biogas purification. CRETE 2012: 3rd International Conference on Industrial and Hazardous Waste Management. 12–14 September, Chania, Crete, Greece.
35. Chen C.-L., Tan G.Y.A., Wang L., Mo Y., Zhao L., Wang J.-Y. (2012) Terephthalate-degrading microbial community and its potential for polyhydroxyalkanoate production. 15th International Biotechnology Symposium and Exhibition (IBS 2012), 16–21 September, Daegu, Korea.
36. Chen M., Giannis A., Wang J.-Y. (2012) Application of system dynamics model for municipal solid waste generation and landfill capacity evaluation in Singapore. The Macrotheme Conference on Energy policy and Environment. 17–18 October, Paris, France.
37. Hu C.-C., Giannis A., Chen C.-L., Qi W., Wang J.-Y. (2012) Biohydrogen production from glucose by four dark fermentative bacteria. The 2012 Asian Biohydrogen and Bioproducts Symposium (ABBS). 9–12 November, Chongqing, China.
38. Wang J.-Y., Hu C.-C. (2013) Comparative study of biohydrogen production by four dark fermentative bacteria. 3rd Asian Symposium on Innovative Bio-production Singapore (i-BioS). 21–22 January, Singapore.
39. He C., Yang Y.H., Wang J.-Y. (2013) Catalytic aqueous phase reforming of glycerol for hydrogen production over Pt-based catalyst supported on carbon nanotubes. Bioenergy and Biorefinery Conference - Southeast Asia 2013 Biobased Fuels and Chemicals. 26–28 March, Singapore.
40. Wang J.-Y. (2013) Sustainable living in a decentralised urban biorenewable resource recovery (DUBR2) system. International Conference on Solid Waste Management 2013. 5–8 May, Hong Kong, China.
41. Tan G.Y.A., Chen C.-L., Li L., Wang L., Mo Y., Zhao L., Wang J.-Y. (2013) Hunting for bacteria capable of bioconverting polystyrene waste to polyhydroxyalkanoate (PHA). International Conference on Solid Waste Management 2013. 5–8 May, Hong Kong, China.
42. Lim J.W., Chen C.-L., Ho J.R.I, Wang J.-Y. (2013) Microbial Population under Steady-State Conditions in the Anaerobic Co-digestion of Brown Water and Food Waste. International Conference on Solid Waste Management 2013. 5–8 May, Hong Kong, China.
43. Yin K., Chia C.Y.H., Noh O., Tong H.H., Wang J.-Y. (2013) Characterization of an Old Landfill in Singapore via a 3D Resistivity and S-wave analysis. International Conference on Solid Waste Management 2013. 5–8 May, Hong Kong, China.
44. Zhao L., Giannis A., Lam W.Y., Wang J.-Y. (2013) Physico-chemical analysis and calorific value of RDF in Singapore. International Conference on Solid Waste Management 2013. 5–8 May, Hong Kong, China.
45. Zhao L., Chen D. Z, Astrup T., Wang Z., Wang J.-Y. (2013) Life cycle assessment of thermal treatments for combustibles from landfill mining. International Conference on Solid Waste Management 2013. 5–8 May, Hong Kong, China.

46. He, C., Chen, C.-L., Zhao, L., Wang, J.-Y. (2013) Towards a better utilization of sewage sludge using promising energy-saving technologies. International Conference on Solid Waste Management 2013. 5–8 May, Hong Kong, China.
47. Hu C.-C., Giannis A., Chen C.-L., Wang J.-Y. (2013) Biohydrogen production from renewable resources by fermentative bacteria. 8th Annual International Symposium on Environment, 13–16 May, Athens, Greece.
48. Harnas F.R. Rahardjo H., Wang J.-Y. (2013) Design of landfill cover using construction and demolition waste: material characterization and numerical modelling. 18th Southeast Asian Geotechnical Conference, 29–31 May, Singapore.
49. Giannis A., Tan J., Wang J.-Y. (2013) Improvement of sludge electro-dewatering process using pretreatment techniques. 12th International Symposium on Electrokinetic Remediation. 23–26 June, Boston, USA.
50. Chen C.-L., Ahamed A., Wang L., Rajagopal R., Mao Y., Lim J.W., Ho I.J.R., Wang J.-Y. (2013) Multi-phased anaerobic baffled system treating food waste. 8th International Symposium of Anaerobic Microbiology. 12–15 June, Innsbruck, Austria.
51. Chen C.-L., Lim J.W., Mao Y., Ahamed A., Ho J.R. I., Ng J.H. B., Rajagopal R., Wang J.-Y. (2013) Faeces and food waste co-digestion for development of decentralised urban resource recovery in Singapore. 13th World Congress on Anaerobic Digestion. 25–28 June, Santiago de Compostela, Spain.
52. Rahardjo H., Satyanaga A., Harnas F.R., Wang J.-Y., Leong E.C. (2013) Capillary barrier system for landfill capping. Symposium on Coupled Phenomena in Environmental Geotechnics. 1–3 July, Torino, Italy. (Accepted)
53. Priono, Rahardjo H., Chatterjea K., Leong E.C., Wang J.Y. (2013) Improved methods for indirect determination of permeability functions. Symposium on Coupled Phenomena in Environmental Geotechnics. 1–3 July, Torino, Italy.
54. Zhang J., Chang V.W.-C., Wang J.-Y. (2013) Source Separation and Urine Treatment – A way towards zero-discharge of nutrients and pharmaceuticals (cytostatic drugs) to the environment. The joint ISEE, ISES and ISIAQ Environmental Health Conference. 19–23 August, Basel, Switzerland.
55. Hu C.C., Giannis A., Chen C.-L., Wang J.-Y. (2013) Comparative study of biohydrogen production by four photo fermentative bacteria. BioH₂ Conference. 5–7 August, Montreal, Canada.
56. Nikolaou A., Giannis A., Gidaracos E. (2013) Bioreactor landfill application for sequential aerobic-anaerobic treatment of municipal solid waste. CEST 2013, 12th International Conference on Environmental Science and Technology. 5–7 September, Athens, Greece.
57. Wang J.-Y., Giannis A., Chen C.-L., Chang V.W.C. (2013) Holistic design of decentralized urban resource recovery (DUR2) system for integrated waste management in Singapore. Urban Environmental Pollution 2013 Asian Edition (UEP2013). 17–20 November, Beijing, China.
58. Chen C.-L., Ahamed A., Lim J.W., Lim C.Y., Wang L., Tan G.Y.A., He C., Zhao L., Yin K., Wang J.-Y. (2013) Food waste: pollution or resource. Urban Environmental Pollution 2013 Asian Edition (UEP2013). 17–20 November, Beijing, China.
59. Hu C.C., Giannis A., Chen C.-L., Wang J.-Y. (2013) Hydrogen production from food waste. Asia BioHyLink (ABHL) 2013. 22–24 November, Osaka, Japan.
60. Tong H.-H., Yin K., Wang J.-Y. (2014) Release of humic substances during in situ aeration. The 29th International Conference on Solid Waste Technology and Management, 30 March–2 April, Philadelphia, USA.
61. Chen C.-L., Wang J.-Y. (2014) Technologies integration for decentralized urban resource recovery. 3R International Scientific Conference on Material Cycles and Waste Management. 10–12 March, Kyoto, Japan.
62. Ahamed A., Chen C.-L., Wang J.-Y. (2014) Effluent recycling of multiphase anaerobic baffled reactor treating food waste. Waste Management 2014: 7th International Conference on Waste

Management and the Environment. 12–14 May, Ancona, Italy.

63. Hu C.C., Wang J.-Y., Giannis A., Chen C.-L. (2014) Biohydrogen production from food waste. International Conference on Environmental Science and Technology 2014 (ICEST2014). 9–13 June, Houston, USA.
64. He C., Chen C.-L., Giannis A., Yang Y., Wang J.-Y. (2014) Simultaneous carbon capture and hydrogen yield enhancement in hydrothermal gasification of dewatered sewage sludge. International Conference on Environmental Science and Technology 2014 (ICEST2014). 9–13 June, Houston, USA.
65. Zhao L., Yuan G., Ge L., Wang Z., Lin S., Li K., Yow M.K., Wang J.-Y. (2014) Quantification of aromatic compounds from catalytic pyrolysis of waste polyethylene and polypropylene. International Conference on Environmental Science and Technology 2014 (ICEST2014). 9–13 June, Houston, USA.
66. Chen C.-L., Wang J.-Y. (2014) Terephthalate-degrading microbial community. 2nd International Conference on Biogas Microbiology. 10–12 June, Uppsala, Sweden.
67. Heng K.S., Lin W.Y., Sun X.L., Wang J.-Y. (2014) Effect of washing and accelerated carbonation on the leaching behaviour of copper from MSW incineration bottom ash. Proceedings Venice 2014, Fifth International Symposium on Energy from Biomass and Waste, 17–20 November, Venice, Italy.
68. Sun X.L., Lin W.Y., Ge L.Y., Ho J.R., Mohamed Noh O., Heng K.S., Choy S.Y., Khaing T.H., Nguyen M.Q., Zhou X.D., Aung T., Wang J.-Y. (2014) Sampling and characterization of Singapore's municipal solid waste incineration bottom ash. Proceedings Venice 2014, Fifth International Symposium on Energy from Biomass and Waste, 17–20 November, Venice, Italy.
69. Menon A., Ren F., Giannis A., Wang J.-Y. (2014) Effect of pretreatment techniques on solubilization and hydrogen and methane generation by thermophilic anaerobic digestion of food waste. AGRO'2014, 9th IWA International Symposium on Waste Management Problems in Agro-Industries, 24 – 26 November, Kochi, Japan.
70. Tan G.Y.A., Chen C.-L., Wang J.-Y. (2015) Analyzing bacterial diversity, community structure and polyhydroxyalkanoate (PHA) production potential in styrene-enriched activated sludge. Second International Conference on Sustainable Urbanization 2015 (ICSU 2015). 7–9 Jan, Hong Kong, China.
71. He C., Wang K., Yang Y.H., Wang J.-Y. (2015) Effective nitrogen removal and recovery from sewage sludge using a novel process of accelerated hydrothermal deamination and air stripping. The 3rd Water Research Conference, 11-14 January, Shenzhen, P.R. China.
72. Wang K., He C., Wei W., Wang J.-Y., Ren N.Q. (2015) Effect of oxygen transfer and particle size of dewatered sludge on nitrogen transformation and CO₂ emission in thermophilic composting using microelectrode. The 3rd Water Research Conference, 11-14 January, Shenzhen, P.R. China.
73. Weerachanchai P., Li K., Yuan G., Lei J., Lee S., Wang J.-Y. (2015) Catalytic pyrolysis of polyethylene (PE) and polypropylene (PP): Effect of catalyst type on product yield and quality. International Conference on Solid Waste 2015 (ICSWHK2015) 19–23 May, Hong Kong, China.
74. Yin K., Li L., Ng B.J.H., Weerachanchai P., Wang J.-Y. (2015) A food waste-to-energy biodiesel (FWEB) system: towards “zero” organic waste and energy sustainability. In: Proceedings of International Conference on Solid Waste 2015: Knowledge transfer for sustainable resource management, Hong Kong, SAR, P.R. China.
75. Yin K., Tong H.H., Giannis A., Chang V., Wang J.-Y. (2015) Transitional contaminants distribution in a tropical landfill via monitored natural attenuation. In: Proceedings of International Conference on Solid Waste 2015: Knowledge transfer for sustainable resource management, Hong Kong, SAR, P.R. China.
76. Giannis A., Chen M., Wang J.-Y. (2015) Application of system dynamics (SD) model for evaluating the municipal solid waste management in Singapore. ICWMHK2015, *International Conference on Waste Management*, 19 – 23 May, Hong Kong.

77. Hu C.C., Giannis A., Wang J.-Y. (2015) Biological hydrogen production from food waste by using integrated dark and photo fermentation. CIIEM15, *6th International Congress of Energy and Environment Engineering and Management*, 22 – 24 July, Paris, France.
78. W.-D. Oh, T.-T. Lim (2017). Performance evaluation and mechanism of surface active bismuth ferrite as novel peroxymonosulfate activator for sulfamethoxazole removal. 2nd International Water Industry Conference, 18-21 October 2016, Daegu, South Korea.
79. W.D. Oh, T.T. Lim, X. Hu, Victor W.C. Chang (Oral). Synthesis, characterization and catalytic properties of organic-Inorganic hybrid catalyst Me-g-C₃N₄ for environmental applications. 9th International conference on materials for advanced technologies (ICMAT). 18-23 June 2017, Singapore.
80. W.D. Oh, J.X.Lei, A. Veksha, A. Giannis, G. Lisak, T.T. Lim (Oral). Nanostructured ZnO loaded on ceramic honeycomb for municipal solid waste–derived syngas desulfurization: Performance and kinetic studies. 2nd International conference on catalysis and chemical engineering. 19-21 February 2018, Paris, France.
81. Ge L., Lin S. X., Wong T. I., Zhou X. D., Zhou X., Lisak G., Rapid determination of heavy metals in environmental samples using developed portable electrochemical sensor platform, Conference on Bioresources, Energy, Environment, and Materials Technology (BEEM2018), Korea, 10-13 June, 2018.
82. Ge L., Lin S. X., Zhou X. D., Lisak G., Rapid on-site detection of heavy metals in waste materials correlating to toxicity characteristic leaching procedure standard, CleanEnviro Summit Singapore 2018 (CESS2018), Singapore, 8-12 July 2018.