

Media Publicity:

1. 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>
2. 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.

Journal Papers:

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.

12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
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19. 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.
20. 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.
21. 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.
22. 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.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.

30. 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.
31. 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.
32. 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.
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52. 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.
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57. 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.
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64. 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.

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81. 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.
82. 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.

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Conference Papers:

1. Hu C.C., Giannis A., Wang J.-Y. (2015) Biological hydrogen production from food waste by using integrated dark and photo fermentation. CIEM15, 6th International Congress of Energy and Environment Engineering and Management, 22 – 24 July, Paris, France.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
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12. Chen C.-L., Wang J.-Y. (2014) Terephthalate-degrading microbial community. 2nd International Conference on Biogas Microbiology. 10–12 June, Uppsala, Sweden.

13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
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24. 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.
25. 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.
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27. 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.
28. 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.

29. 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.
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32. 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.
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