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Expertise

Xinmin Zhan graduated from Tsinghua University, China, in 1999 with a PhD degree in Environmental Engineering. He worked in Tokyo Institute of Technology (Japan), Gifu University (Japan), and Tsinghua University (China) before he came to work in NUI Galway in 2002. His research interest includes (i) recovery of organic waste and biomass for use as a sustainable and clean energy source and for building a green agriculture industry; (ii) development of cost-effective and efficient technologies for domestic and agricultural wastewater treatment; and (iii) development of novel environmental materials for recovery of phosphorus and heavy metals from wastewater. He has been principal investigator, coordinator or co-investigator of over 15 research projects, funded by national, European and international funding sources. His research team has developed **4** wastewater treatment technologies. The PFBR technology (of which he was a co-inventor) has been licensed to an Irish company.

Key papers related to the COST action

1. Jianglin Hu, Zilin Tong, Guowei Chen, Xinmin Zhan, Zhenhu Hu. Adsorption of roxarsone by iron (hydr)oxide modified multiwalled carbon nanotubes from aqueous solution and its mechanisms. *International Journal of Environmental Science and Technology*, 10.1007/s13762-013-0261-9
2. Ruihua Li, Yulin Yuan, Xinmin Zhan, Bo Liu. Phosphorus removal in a sulfur-limestone autotrophic denitrification (SLAD) biofilter. *Environmental Science and Pollution Research*, 21, 972 - 978, 2014
3. Ruihua Li, Jianmin Niu, Xinmin Zhan, Bo Liu. Simultaneous removal of nitrogen and phosphorous from wastewater by means of FeS-based autotrophic denitrification. *Water Science and Technology*, 67, 2761 - 2767, 2013
4. Sihuang Xie, Peadar G. Lawlor, J. Peter Frost, Guangxue Wu, Xinmin Zhan. Hydrolysis and acidification of grass silage in leaching bed reactors. *Bioresource Technology*, 114, 406 - 413, 2012
5. Sihuang Xie, Guangxue Wu, Peadar G. Lawlor, J. Peter Frost, Xinmin Zhan. Methane production from anaerobic co-digestion of the separated solid fraction of pig manure with dried grass silage. *Bioresource Technology*, 104, 289 - 297, 2012
6. Sihuang Xie, J. Peter Frost, Peadar G. Lawlor, Guangxue Wu, Xinmin Zhan. Effects of thermo-chemical pre-treatment of grass silage on methane production by anaerobic digestion. *Bioresource Technology*, 102, 8748 - 8755, 2011
7. Sihuang Xie, Peadar G. Lawlor, J. Peter Frost, Zhenhu Hu, Xinmin Zhan. Effect of pig manure to grass silage ratio on methane production in batch anaerobic co-digestion of pig manure and grass silage. *Bioresource Technology*, 102, 5728 - 5733, 2011
8. Xinmin Zhan, Xuan Zhao. Mechanism of lead adsorption from aqueous solutions using an adsorbent synthesized from natural condensed tannin. *Water Research*, 37, 3887 - 3894, 2003
9. Jianlong Wang, Xinmin Zhan, De Ding, Ding Zhou. Biosorption of lead(II) from aqueous solution by fungal biomass of *Aspergillus niger*. *Journal of Biotechnology*, 87, 273 - 277, 2001