



Department: School of Mechanical and Power Engineering

Professional field: Mechanical Engineering, Environmental Engineering

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Profile

2004-2008, Bachelor from East China University of Science and Technology, major in Chemical Engineering.

2008-2014, PhD from East China University of Science and Technology, major in Chemical Engineering. Supervised by Dr. Yifan Han

2014-2015, post-doc/ lecture at School of Mechanical and Power Engineering. Supervised by Dr. Hualin Wang

2015-2019, post-doc at UC Berkeley, Civil and Environmental Engineering Department, Supervised by Dr. David L. Sedlak

Research Field

Environmental Pollution Control; Environmental Catalysis and AOP;

Water Energy Food Nexus

Research results and selected published papers

1. Jinling Wang, Meng-Che Tsai, Zhenying Lu, Hualin Wang, Honglai Liu, Bing-Joe Hwang, Anke Neumann, Xuejing Yang* "Polyaniline-intercalated FeOCl for Heterogeneous Fenton Reactions under Neutral Circumstance", ACS Omega, just accepted
2. Lei Guo, Shang Jia, Christian S. Diercks, Xuejing Yang, Sultan A. Alshmiri and Omar M. Yaghi*, "Amidation, Esterification and Thioesterification of a Carboxyl-Functionalized Covalent Organic Framework", Angewandte Chemie International Edition, just accepted
3. Xuejing Yang, Yanghua Duan, Jinling Wang, Hualin Wang, Honglai Liu and David L. Sedlak*, "Impact of Peroxymonocarbonate on the Transformation of Organic Contaminants during Hydrogen Peroxide in situ Chemical Oxidation", Environ. Sci. Technol. Letter, just accepted
4. Min Zeng, Jinghua Wu, Lin He,* Xuejing Yang*, et al. "Interlayer Effect in NiCo Layered Double Hydroxide for Promoted Electrocatalytic Urea Oxidation", ACS Sustainable Chem& Eng., 2019, 7 (5), 4777-4783
5. A Benjamin Schantz, Boya Xiong, Xuejing Yang, Elizabeth Dees, David R. Moore, Manish Kumar* "Prospects and challenges for high-pressure reverse osmosis" Environ. Sci.: Water Research & Technology, 2018, 4, 894
6. Peng-bo Fu, Liang Ma, Qiang Yang, Xuejing Yang, Hualin Wang et al. "Enhancement of PM2.5 Cyclone Separation by Droplet Capture and Particle Sorting" Environ. Sci. Technol. 2018, 52 (20), 11652-11659
7. Peng-bo Fu, Fei Wang, Xue-jing Yang, Hualin Wang et al. "Inlet particle-sorting cyclone for the enhancement of PM2.5 separation", Environ. Sci. Technol. 2017, 51 (3), 1587-1594
8. Xue-jing Yang, Ximeng Xu, Xinchao Xu, Jing Xu, Hualin Wang, Rapheal Semiat, Yifan Han*, "Modeling and kinetics study of Bisphenol A (BPA) degradation over anFeOCl/SiO2 Fenton-like catalyst", Catalysis Today, 2016, 276, 85-96
9. Jin Tian, Shuhao An, Xuejing Yang, Honglai Liu, Xiang Zhu*, Efficient adsorptive desulfurization by task - specific porous organic polymers AIChE J. 62 (5), 1740-1746
10. Jianping Li, Xuejing Yang, Yinxiang Xu, Hualin Wang* et al. "The Enhancement on the Waste Management of Spent Hydrotreating Catalysts for Residue Oil by a Hydrothermal- Hydrocyclone Process", Catalysis Today, 2016, 271: 163-171.
11. Xuejing Yang, Peng-Fei Tian, Hua-lin Wang, Jing Xu and Yi-fan Han*, "Catalytic decomposition of H2O2 over a Au/carbon catalyst: A dualintermediate model for the generation of hydroxyl radicals", Journal of Catalysis, 2016, 336, 126-132
12. Xin Yu, Ting Wu, Xuejing Yang, Yifan Han et al. "Degradation of trichloroethylene by hydrodechlorination using formic acid as hydrogen source over supported Pd catalysts" Journal of hazardous materials, 2016, 305: 178-189.
13. Xuejing Yang, Peng-fei Tian, Xiao-man Zhang, Xin Yu, Jing Xu and Yi-fan Han*, "Mechanistic and Kinetic Study of Hydrogen Peroxide Decomposition to Hydroxyl Radicals (HO·) over FeOCl/SBA-15 Catalysts for Phenol Degradation", AIChE J. 2015, 61, 166-176.
14. Xue-jing Yang, Xi-meng Xu, Jing Xu, Yi-Fan Han*, "Iron Oxychloride (FeOCl): An Efficient Fenton-Like Catalyst for Producing Hydroxyl Radicals in Degradation of Organic Contaminants", Journal of American Chemical Society, 2013, 135, 16058-16061.
15. Xue-jing Yang, Peng-Fei Tian, Chengxi Zhang, Ya-qing Deng, Jing Xu, Jinglong Gong, Yi-Fan Han*, "Au/carbon as Fenton-like catalysts for the oxidative degradation of bisphenol A", Appl. Catal. B: Environ., 2013, 134-135, 145- 152