



Profile

2018.9-present: Professor, East China University of Science and Technology

2017.9-present: Deputy Director, Department of Discipline and Professional Development Planning

2010.9-present: Vice President, Secretary General, School Young Teachers Association

2013.10-2017.9: Deputy Director, Personnel Department, East China University of Science and Technology

2009.3-2018.8: Assistant Research Fellow, Associate Professor, East China University of Science and Technology

Research Field

(1) Thermal conversion and recycling of solid waste and biomass (energy saving optimization of thermal processes, waste gasification and pyrolysis, etc.)

(2) Contaminant control theory and treatment technology in chemical and energy conversion processes (including environmental functional materials, adsorption-photocatalysis, advanced wastewater treatment, eutrophic water restoration, etc.)

Research results and selected published papers

- [1] Zhou, Yi., Lu, Jian., Liu, Qiming., Chen, Huafeng., Liu, Yongdi., Zhou, Yanbo*. A novel hollow-sphere cyclodextrin nanoreactor for the enhanced removal of bisphenol A under visible irradiation. *Journal of Hazardous Materials*, 2020, 384: 121267.
- [2] Lu, Jian., Wang, Tenghao., Zhou, Yi., Cui, Changzheng., Ao, Zimin., Zhou, Yanbo*. Dramatic enhancement effects of l-cysteine on the degradation of sulfadiazine in Fe³⁺/CaO₂ system. *Journal of Hazardous Materials*, 2020, 383: 121133.
- [3] Liu, Qiming., Li, Yaoyue., Chen, Huafeng., Lu, Jian., Yu, Guangsu., Möslang, Maxim., Zhou, Yanbo*. Superior adsorption capacity of functionalised straw adsorbent for dyes and heavy-metal ions. *Journal of Hazardous Materials*, 2020, 382: 121040.
- [4] Zhou, Yanbo*, Lu, Jian., Zhou, Yi., Liu, Yongdi. Recent advances for dyes removal using novel adsorbents: A review. *Environmental Pollution*, 2019, 252: 352-365.
- [5] Wang, Tenghao., Zhou, Yi., Cao, Shixin., Lu, Jian., Zhou, Yanbo*. Degradation of sulfanilamide by Fenton-like reaction and optimization using response surface methodology. *Ecotoxicology and Environmental Safety*, 2019, 172: 334-340.
- [6] Zhou, Yanbo*, Cheng, Guang., Chen, Ke., Lu, Jian., Lei, Juying., Pu, Shunyan. Adsorptive removal of bisphenol A, chloroxylenol, and carbamazepine from water using a novel β -cyclodextrin polymer. *Ecotoxicology and Environmental Safety*, 2019, 170: 278-285.
- [7] Li, Yaoyue., Zhou, Yanbo*, Zhou, Yi., Lei, Juying., Pu, Shunyan. Cyclodextrin modified filter paper for removal of cationic dyes/Cu ions from aqueous solutions. *Water Science and Technology*, 2018, 78 (12): 553-2563.
- [8] Zhou Yanbo*, Hu Yonghua , Huang Weiwei , et al. A novel amphoteric β -cyclodextrin-based adsorbent for simultaneous removal of cationic/anionic dyes and bisphenol A[J]. *The Chemical Engineering Journal*, 2018, 341:47-57.
- [9] Zhou Yanbo*, Fang Xingbin, Wang K, et al. Improving cyanide removal from coke plant wastewaters by optimizing the operation conditions of an ammonia still tower[J]. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 2017, 39(5):491-496.
- [10] Zhou Yanbo, Gu Xiaochen, Zhang Ruzhuang, et al. Microbial degradation of diesel oil and heavy oil in the presence of modified clay[J]. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 2017, 39(3):326-331.
- [11] Zhou Yanbo*, Fang Xingbin, Wang Tenghao, Hu Yonghua, Lu Jun, Chelating agents enhanced CaO₂ oxidation of bisphenol A catalyzed by Fe³⁺ and reuse of ferric sludge as a source of catalyst, *Chemical Engineering Journal*, 2017,313: 638-645
- [12] Zhou Yanbo*, Zhang Ruzhuang, Chen Ke, Zhao Xuanran, Gu Xiaochen, Lu Jun, Enhanced adsorption and photo-degradation of bisphenol A by β -cyclodextrin modified pine sawdust in an aquatic environment, *Journal of the Taiwan Institute of Chemical Engineers*, 2017,78:510-516
- [13] Huang Weiwei, Hu Yonghua, Li Yaoyue, Zhou Yanbo*, Niu Dechao, Lei Zhongfang, Zhang Zhenya. Citric acid-crosslinked β -cyclodextrin for simultaneous removal of bisphenol A, methylene blue and copper: The roles of cavity and surface functional groups. *Journal of the Taiwan Institute of Chemical Engineers*, 2018,82:189-197
- [14] Zhou Yanbo*, Fang Xingbin, Zhang Zhiqing, Hu Yonghua, Lu Jun, An oxygen slow-releasing material and its application in water remediation as oxygen supplier, *Environmental Technology*, 2017,38(22):2793-2799
- [15] Zhang Ruzhuang, Zhou Yanbo*, Gu Xiaochen, Lu Jun. Effect of hexadecyltrimethyl ammonium bromide on the modified rice straw characteristics and its sorption behavior of phenanthrene. *Desalination and Water Treatment*, 2016,57(32) :15220 - 15229.
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- [17] Zhang Ruzhuang, Zhou Yanbo*, Gu Xiaochen, Lu Jun. Competitive Adsorption of Methylene Blue and Cu²⁺ onto Citric Acid Modified Pine Sawdust. *CLEAN – Soil, Air, Water*. 2015, 43(1): 96-103
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- [19] Zhou Yanbo*, Zhang Ruzhuang, Gu Xiaochen, Zhao Qing, Lu Jun. Sorption characteristics of phenanthrene and pyrene to surfactant-modified peat from aqueous solution: the contribution of partition and adsorption. *Water Science and Technology*. 2015, 71(2): 296–302.
- [20] Zhu Feifei, Gao Jie, Chen Xin, Tong Ming, Zhou Yanbo, Lu Jun*. Hydrolysis of Urea for Ammonia-Based Wet Flue Gas Desulfurization. *Industrial & Engineering Chemistry Research*, 2015, 54 (37): 9072-9080.
- [21] Zhou Yanbo*, Zhang Ruzhuang, Gu Xiaochen, Lu Jun. Adsorption of divalent heavy metal ions from aqueous solution by citric acid modified pine sawdust. *Separation Science and Technology*, 2015, 50(2):245-252.