



## 师资队伍

在职教师

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## 环境科学系

### 苏继新



#### 基本情况:

苏继新, 男, 汉族, 1966年1月出生, 博士。现任山东大学环境科学与工程学院教授、博士生导师。

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#### 最高学历:

1996.9-1999.7 中国科学院兰州化学物理研究所物理化学专业, 获理学博士学位。

#### 工作简历:

1992.7-1996.9 山东大学化学学院化工教研室, 讲师;

1999.8-至今 山东大学环境科学与工程学院, 先后担任副教授、教授、硕士生导师、博士生导师;

2008.9-2008.12 UC San Diego 进修。

2015.5-2015.9 Délégation Center Lumousin Poitou-Charentes, National de la Recherche Scitifique 进修

#### 主要研究项目:

承担国家、省级科研项目、横向开发等项目90余项。

- 1、单原子级分散的天然气部分氧化催化新材料的研究(02BS060), 山东省科技厅博士基金项目;
- 2、含Cu、Mo过渡金属纳米复合氧化物催化材料的氮氧化物消除研究(04BS08010), 山东省科技厅博士基金项目;
- 3、新型纳米固体酸功能材料(022120104), 山东省科技厅科技攻关项目;
- 4、重金属污染废水的治理与水体修复研究(2012GSF11720), 山东省科技厅科技攻关项目;
- 5、沿湖区农业面源污染负荷与控制模型(7BAD87B052), 科技部科技支撑计划;
- 6、大气污染防控技术创新与示范(2014GJJS0501), 山东省自主创新重大关键技术项目;
- 7、MARine atmospheric Science Unravelled: Analytical and mass spectrometric techniques development and application. Marie Skłodowska-Curie Actions (MARSU690958);
- 8、基于解吸电喷雾飞行时间质谱技术的海洋大气研究, 科技部项目(2016YFE0112200), 国家重点研发计划。

#### 部分发表论文: (\*通讯作者)

Luyao Wang<sup>1</sup>, Xue Gao<sup>1</sup>, Yiqian Cheng, Xiaoxia Zhang, Guoqing Wang, Qiyan Zhang, **Jixin Su\***, TiO<sub>2</sub>@MgAl-layered double hydrate with enhanced photocatalytic activity towards degradation of gaseous toluene. *Journal of Photochemistry & Photobiology A: Chemistry*, 369 (2019) 44-53.

Xiaoxia Zhang, Yiqian Cheng, **Jixin Su\***, Guoqing Wang, Luyao Wang, Yuxin Xiao, Xue Gao. Interfacial adsorption of Ca<sup>2+</sup> and Mg<sup>2+</sup> from high salinity wastewater by layered double oxides. *Desalination and Water Treatment*, 108 (2018) 279-290.

Yiqian Cheng, Xue Gao, Xiaoxia Zhang, **Jixin Su\***, Guoqing Wang, Luyao Wang. Synthesis of a TiO<sub>2</sub>-Cu<sub>2</sub>O composite catalyst with enhanced visible light photocatalytic activity for gas-phase toluene. *New Journal of Chemistry*, 42(2018) 9252-9259.

Xue Gao, Lin Zhang, Mingming Sun, Yuxin Xiao, **Jixin Su\***. Fast zero-order hydro-cracking reaction of X-3B over crystal Al-Fe alloys: Effect of electrochemical corrosion behaviors. *Materials & Design*, 109 (2016) 570-579.

Lin Zhang, Xue Gao, Zhixuan Zhang, Mingbo Zhang, Yiqian Cheng, **Jixin Su\***. A Doping Lattice of Aluminum and Copper with Accelerated Electron Transfer Process and Enhanced Reductive Degradation Performance. *Scientific Reports*, 6 (2016) 31797.

Mingming Sun, **Jixin Su\***, Siming Liu, Dongming Wang, Wenbao Yan, Lin Zhang, Yuxin Xiao, Xue Gao. Simultaneous removal of nickel and phosphorus from spent electroless nickel plating wastewater via calcined Mg-Al-CO<sub>3</sub> hydroxides. *RSC Advances*, 99 (2015) 80978-80989.

Yuxin Xiao, Mingming Sun, Lin Zhang, Xue Gao, **Jixin Su\***, Hong Zhu. The co-adsorption of Cu<sup>2+</sup> and Zn<sup>2+</sup> with adsorption sites surface-lattice reforming on calcined layered double hydroxides. *RSC Advances*, 5 (2015) 28369-28378.

Xiaowen Su, Lin Zhang, Yuxin Xiao, Mingming Sun, Xue Gao, **Jixin Su\***. Evaluation of a flue gas cleaning system of a circulating fluidized bed incineration power plant by the analysis of pollutant emissions. *Powder Technology*, 286 (2015) 9-15.

Mingming Sun, Yuxin Xiao, Lin Zhang, Xue Gao, Wenbao Yan, Dongming Wang, **Jixin Su\***. High uptake of Cu<sup>2+</sup>, Zn<sup>2+</sup> or Ni<sup>2+</sup> on calcined MgAl hydroxides from aqueous solutions: Changing adsorbent structures. *Chemical Engineering Journal*, 272 (2015) 17-27.

Lin Zhang, Xiaowen Su, Zhixuan Zhang, Siming Liu, Yuxin Xiao, Mingming Sun, **Jixin Su\***. Characterization of fly ash from a circulating fluidized bed incinerator of municipal solid waste. *Environmental Science and Pollution Research*, 21 (2014) 12767-12

Ganglin Lv, **Jixin Su\***, Lin Zhang, Qun Li, Li Xu, and Lining Zhao. Analysis of critical process optimization in the black liquor gasification system. *Journal of Renewable and Sustainable Energy*, 5 (2013) 063102

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Qun Li, Zhixuan Zhang, Siming Liu, **Jixin Su\***. Properties of slag and ash from the incinerator in biomass power plants. *Advanced Materials Research*, 512-515 (2012) 579-582.

Zhixuan Zhang, Qun Li, Siming Liu, **Jixin Su\***. Organic pollutant of PAHs and Dioxins on the MSWI fly ash. *Advanced Materials Research*, 518-523 (2012) 3599-3604.

**Jixin Su**, Feifei Dong, Mingbo Zhang, Shenping Zhang. Fluorescent properties of Zn-Al hydrotalcite and its modified products. *Manufacturing Processes and Systems*, 148-149 (2011) 1087-1090.

**Jixin Su**, Mingbo Zhang, Liyuan Ma, Shenping Zhang, Feifei Dong. Controlling the wall thickness and pore size of SBA-15 by using PPG and PEG as additives. *New Materials and Advanced Materials*, 152-153 (2011) 1514-1518

**Jixin Su**, Shenping Zhang, Liyuan Ma, Jing Yin, Wen Qu, Yi Ding. Preparation of Au/SBA-15 and its catalytic activity for CO oxidation. *Chinese Journal of Catalysis*, 31 (2010) 839-845.

**Su Jixin**, Qu Wen, Tian Yanli, Pan Qi, Wang Xiaopeng. A new route to synthesis thiol-functionalized silica and its fixation of Hg(II) in water. *International Conference on Bioinformatics and Biomedical Engineering*, 18-20 (2010) 1-4.

Dongqing Han, Tingting Xu, **Jixin Su**, Xiaohong Xu, Yi Ding. Gas-Phase selective oxidation of benzyl alcohol to benzaldehyde with Molecular oxygen over unsupported nanoporous gold. *ChemCatChem*, 2 (2010) 383-386.

Zheng Jiang, **Jixin Su**, Martin Owen Jones, Huahong Shi, Tiancun Xiao, Peter P. Edwards. Catalytic partial oxidation of methane over Ni-based catalysts derived from Ni-Mg/Al ternary hydrotalcites. *Energy & Fuels*, 23 (2009) 1634-1639.

**苏继新**, 殷晶, 屈文, 马丽媛, 张慎平. 插层水滑石的组装及对对硝基甲苯的吸附. *中国环境科学*, 2009, 29(05): 518-523.

**Su Jixin**, Qu Wen, Liyan Ma, Jing Yin, Qi Pan. Photocatalytic activity of aano-size TiO<sub>2</sub> synthesized by restricting the particles within channels of SBA-15, *Acta Chimica Sinica*, 66 (2008) 2416-2422.

**Su Jixin**, Xiaopeng Wang, Qi Pan, Wen Qu. Effect of hydrothermal conditions on the crystallization of Mg<sub>3</sub>Al-CO<sub>3</sub><sup>2-</sup> hydrotalcite, *Chinese Journal of Inorganic Chemistry*, 23 (2007) 1015-1020.

Caixia Xu, **Jixin Su**, Xiaohong Xu, Pengpeng Liu, Hongjuan Zhao, Fang Tian, Yi Ding. Low temperature CO oxidation over unsupported nanoporous gold. *Journal American Chemical Society*, 129 (2007) 42-43.

Caixia Xu, Xiaohong Xu, **Jixin Su**, Yi Ding. Research on unsupported nanoporous gold catalyst for CO oxidation. *Journal of Catalysis*, 252 (2007) 243-248.

Zhongpeng Wang, Wenfeng Shangguan, **Jixin Su**, Zhi Jiang. Catalytic oxidation of diesel soot on mixed oxides derived from hydrotalcites. *Catalysis Letters*, 112 (2006) 149-154.

#### 专利成果:

- 一种湿法脱硫循环液中石灰石含量的梯度调节方法
- 一种难降解水中挥发性有机物的去除方法
- 一种高温强腐蚀烟气的流量测量方法
- 利用强酸性阳离子交换树脂制备疏水性活性炭的方法
- 一种危废焚烧过程的二次燃烧与脱酸脱硝一体装置
- 一种固体碱吸附净化高浓盐水的方法
- 一种活性污泥灭菌与蒸汽机械压缩干燥方法及系统
- 一种并联窑炉危险废物焚烧工艺
- 一种危废焚烧烟气循环与急冷的复杂前馈控制方法
- 一种PM2.5颗粒除尘用超细纤维规整填料及其除尘方法
- 一种高温强腐蚀烟气的流量测量系统
- 硅质材料表面化学改性的方法
- 一种氨水喷雾烟气脱硫及二氧化硫回收工艺及系统
- 一种获得高浓度黑液的造纸制浆方法
- 一种负载型纳米二氧化钛的制备方法
- 一种偶氮染料废水脱色的处理方法
- 一种介孔球形三氧化二铝的制备方法
- 以水滑石为前驱物制备的天然气部分氧化催化剂
- 溶析结晶从混合二氯苯中分离对二氯苯的方法

获得省部级科研奖励4项

#### 主要研究方向:

- 1、污染控制理论与技术;
- 2、重金属吸附与迁移;
- 3、环境材料与环境催化;
- 4、危险废物处置与清洁生产审核

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