

个人简介:

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技术职务: 教授 专业及学历: 环境、化工、化学、博士

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工作及教育经历:

2002/08-至今,天津工业大学,化学与化工学院,教授

2004/09-2007/07, 南开大学, 化学学院, 博士

研究方向:

1. 光催化在废水处理、海水淡化、清洁能源方面的应用研究

- 2. 电催化在有机合成、清洁能源方面的应用研究
- 3. 功能性微纳米材料的研发及应用

主持及参加的科研项目:

国家级、省部级及企业项目多项

代表性学术论文:

- [1] Super-high activity of Bi³⁺ doped Ag₃PO₄ and enhanced photocatalytic mechanism. *Applied Catalysis B: Environmental* 152–153 (2014) 129–139, IF=11.698, ─⊠
- [2] Synthesis and characterization of Bi³⁺-doped Ag/AgCl and enhanced photocatalytic properties. *Journal of Physical Chemistry C* 118 (2014) 29777–29787, IF=4.484
- [3] Preparation of BiF₃/BiOBr heterojunctions from microwave-assisted method and photocatalytic performances. *Journal of Hazardous Materials* 367 (2019) 304–315, IF=6.434, $-\boxtimes$
- [4] Fullerenes/graphite carbon nitride with enhanced photocatalytic hydrogen evolution ability. *Journal of Physical Chemistry C* 121 (2017) 293–299, IF=4.484
- [5] Synthesis of rhodium phosphide cocatalyst and remarkably enhanced photocatalytic hydrogen evolution over CdS under visible light radiation. *Chemical*

- *Engineering Journal* 314 (2017) 498–507, IF=6.735, —⊠
- [6] Enhanced photocatalytic activity of Ag_3PO_4 photocatalyst via glucose-based carbonsphere modification, *Chemical Engineering Journal*, 309 (2017) 222-229, IF=6.735, $-\boxtimes$
- [7] Synthesis of carbon quantum dot-doped NiCoP and enhanced electrocatalytic hydrogen evolution ability and mechanism, *Chemical Engineering Journal* 351 (2018) 189-194, IF=6.735, —区
- [8] Synthesis of an iron phosphide catalyst based on sulfides and hydrodesulfurization property, *Chemical Engineering Journal*, 281 (2015) 281-285, IF=6.735, —区
- [9] Super-high photocatalytic activity, stability and improved photocatalytic mechanism of monodisperse AgBr doped with In, *Journal of Hazardous Materials* 299 (2015) 570-576, IF=6.434, —区
- [10] Co(II)–grafted Ag₃PO₄ photocatalysts with unexpected photocatalytic ability: Enhanced photogenerated charge separation efficiency, photocatalytic mechanism and activity, *Journal of Hazardous Materials*, 293 (2015) 72-80, IF=6.434, —区
- [11] A metal-free and graphitic carbon nitride sonocatalyst with high sonocatalytic activity for degradation methylene blue, *Chemical Engineering Journal* 184 (2012) 256-260, IF=6.735, —区
- [12] One-step synthesis of composite semiconductor $AgBr/Ag_5P_3O_{10}$ heterojunctions and their photocatalytic activity, kinetic analysis, photocatalytic mechanism under visible light radiation, *Chemical Engineering Journal* 214 (2013) 336-342, IF=6.735, $\neg |\vec{x}|$
- [13] Antimony trioxide microstructures: 3D grass-like architectures and optical properties, *Chemical Engineering Journal* 179 (2012) 404-411, IF=6.735,
- [14] Perfect, sectorial, branched Sb_2O_3 microstructures consisting of prolate microtubes: controllable seeded growth synthesis and optical properties, *Crystal Growth Design*, 12 (2012) 764-770, IF=3.972, $\square \boxtimes$
- [15] Synthesis and photocatalytic property of a new silver thiocyanate semiconductor, *Chemical Engineering Journal* 243 (2014) 24–30, IF=6.735, —区
- [16] The synthesis of monodisperse silver chloride nanospheres with super-high photocatalytic activity and comparative study, *Chemical Engineering Journal* 240 (2014) 548–553, IF=6.735, —区

代表性专利:

[1]《石墨烯/ C_{60} /g- C_{3} N₄异质结复合膜及其制备方法》,申请日期: 2014.9,中国,授权专利号: ZL 201410458163.4

[2]《具有可见光响应的碳酸锶-二氧化钛复合光催化剂及其制备方法》,申请日期: 2009.3,中国,授权专利号: ZL 200910068131.2

出版著作:

《普通化学学习指导》中国纺织出版社 2009 年