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博士毕业于浙江大学材料科学与工程系(硅材料国家重点实验室)。分别于2016年、2018年被评为中国海洋大学优秀教师。指导的硕士毕业生中3人获得省优。第一或通讯作者发表SCI论文30余篇, 其中一区论文20篇, 论文引用1000余次。授权国家发明专利6项。担任*Biosens. Bioelectron.*; *Sensor Actuat. B-Chem.*; *ACS Appl. Mater. Interfaces*等期刊审稿人。

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### 研究方向:

- 1) 半导体功能材料制备
- 2) 新型传感器件设计制作
- 3) 环境、医疗检测

### 主持项目:

- 1) 2019-2021中央高校基本科研业务费专项资金: 基金海水铁离子检测及硫酸盐还原菌腐蚀机理研究
- 2) 2017-2019国家自然科学基金: ZnO界面势垒在海水Hg(II)检测中的应用研究
- 3) 2016-2018山东省自然科学基金: 纳米异质结效应在海水汞离子检测中的应用研究
- 4) 2015-2017青岛市应用研究专项: 纳米p-n结生物传感海水有机磷检测应用
- 5) 2014-2016中央高校青年教师科研专项基金: ZnO异质结纳米材料生物传感在海洋污染检测应用

### 近3年代表性论文(\*标注为通讯作者论文):

1. **Minggang Zhao**, Huiyan Qu, Jinghua Shang, et al. Fabrication of p-n junction foam for detection of methyl parathion in seawater, *Sensors and Actuators B: Chemical*, 2019, 285, 413-417. (IF=6.3)
2. Xingtao Wang, **Minggang Zhao\***, Yawen Song, et al. Synthesis of ZnFe<sub>2</sub>O<sub>4</sub>/ZnO heterostructures decorated three-dimensional graphene foam as peroxidase mimetics for

- colorimetric assay of hydroquinone, *Sensors and Actuators B: Chemical*, 2019, 283, 130-137. (IF=6.3)
3. Yawen Song, **Minggang Zhao\***, Hui Li, et al. Facile preparation of urchin-like NiCo<sub>2</sub>O<sub>4</sub> microspheres as oxidase mimetic for colorimetric assay of hydroquinone, *Sensors and Actuators B: Chemical*, 2018, 255, 1927-1936. (IF=6.3)
  4. Sisi Fan, **Minggang Zhao\***, Longjiang Ding, et al. Preparation of Co<sub>3</sub>O<sub>4</sub>/crumpled graphene microsphere as peroxidase mimetic for colorimetric assay of ascorbic acid, *Biosensors and Bioelectronics*, 2017, 89, 846-852. (IF=9.5)
  5. Yawen song, **Minggang Zhao\***, Hui Li, et al. Facile preparation of urchin-like NiCo<sub>2</sub>O<sub>4</sub> microspheres as oxidase mimetic for colorimetric assay of hydroquinone, *Sensors and Actuators B: Chemical*, 2017, 255, 1927-1936. (IF=6.3)
  6. Longjiang Ding, **Minggang Zhao\***, Ye Ma, et al., Jingyun Huang, Jingjing Liang, Shougang Chen, Triggering interface potential barrier: A controllable tuning mechanism for electrochemical detection, *Biosensors and Bioelectronics*, 2016, 85, 869-875. (IF=9.5)
  7. Sisi Fan, **Minggang Zhao\***, Longjiang Ding, et al., Introducing p-n junction interface into enzyme loading matrix for enhanced glucose biosensing performance, *Sensors and Actuators B: Chemical*, 2016, 237, 373-379. (IF=6.3)
  8. Longjiang Ding, **Minggang Zhao\***, Sisi Fan, et al. Preparing Co<sub>3</sub>O<sub>4</sub> urchin-like hollow microspheres self-supporting architecture for improved glucose biosensing performance, *Sensors and Actuators B: Chemical*, 2016, 235, 162-169. (IF=6.3)
  9. Yingchun Li, **Minggang Zhao\***, Jing Chen, et al. Flexible chitosan/carbon nanotubes aerogel, a robust matrix for in-situ growth and non-enzymatic biosensing applications, *Sensors and Actuators B: Chemical*, 2016, 232, 750-757. (IF=6.3)
  10. Xingtao Wang, **Minggang Zhao\***, Hui Li, et al. Introducing Schottky barrier into electrochemical response: A novel adjusting strategy for designing electrochemical sensors, *Electrochimica Acta*, 2017, 249, 173-178. (IF=5.3)
  11. **Minggang Zhao**, Longjiang Ding, Hui Li, et al. A self-adjusting mechanism of schottky junction constructed by zero-bandgap graphene for highly efficient electrochemical biosensing, *Electrochimica Acta*, 2017, 247, 306-313. (IF=5.3)
  12. Yan He, **Minggang Zhao\***, Meiyan Yu, et al. Interfacial potential barrier driven electrochemical detection of Cr<sup>6+</sup>, *Analytica Chimica Acta*, 2018, 1029, 31, 8-14. (IF=5.2)
  13. Jinghua Shang, **Minggang Zhao\***, Huiyan Qu, et al. Fabrication of CQDs/MoS<sub>2</sub>/Mo foil for the improved electrochemical detection, *Analytica Chimica Acta*, 2019, 1079, 79-85. (IF=5.2)
  14. **Minggang Zhao\***, Jinghua Shang, Huiyan Qu, et al. Fabrication of the Ni/ZnO/BiOI foam for the improved electrochemical biosensing performance to glucose, *Analytica Chimica Acta*, 2019, Available online 23 October 2019. (IF=5.2)
  15. Longjiang Ding, **Minggang Zhao\***, Sisi Fan, et al. New insights into the electrochemical detection application of p-p junction foam: the effects of the interfacial potential barrier, *Analyst*, (封面论文) 2016, 141, 6515-6520.

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