

# 2025 年度中国分析测试协会分析测试科学奖 申报项目公示内容

## 一、项目名称

功能纳米传感体系的构建及相关材料性能研究与应用

## 二、申报奖种及提名等级

中国分析测试协会分析测试科学奖 二等奖

## 三、主要完成人和完成单位

1. 姓名：岳巧丽，排序：1/5，职务：无，职称：教授，工作单位：聊城大学，完成单位：聊城大学。

2. 姓名：徐树玲，排序：2/5，职务：无，职称：副教授，工作单位：聊城大学，完成单位：聊城大学。

3. 姓名：薛庆旺，排序：3/5，职务：化学系主任，职称：教授，工作单位：聊城大学，完成单位：聊城大学。

4. 姓名：李霞，排序：4/5，职务：无，职称：副教授，工作单位：聊城大学，完成单位：聊城大学。

5. 姓名：段文增，排序：4/5，职务：无，职称：副教授，工作单位：聊城大学，完成单位：聊城大学。

## 四、代表性论文目录

1. Dou Yang, Tong Shao, Likai Zhang, Xiaoshuang Wang, **Qiaoli Yue\***, Novel carbon dots from phenylenediamine for simultaneous detection of peroxydisulfate and phosphate with a smart phone by dual-channel of fluorometry and colorimetry, *Food Chem.*, **2025**, 472, 142905
2. Xiaoyu Fan, Jiapei Lv, Rui Li, Yafei Chen, Shuai Zhang, Tao Liu, Shuxing Zhou\*, Xiaodong Shao,

- Shuhao Wang, Guangzhi Hu\*, **Qiaoli Yue\***, Paper test strip for silver ions detection in drinking water samples based on combined fluorometric and colorimetric methods, *Arab. J. Chem.*, **2023**, 16, 104492
3. Yingying Hu, Rentian Guan, Shuai Zhang, Xiaoyu Fan, Wenjing Liu, Keying Zhang, Xiaodong Shao, Xia Li, **Qiaoli Yue\***, A convenient fluorescence sensor of tetracycline based on B, N codoped carbon dots/polymer composite film, *Food Chem.*, **2022**, 372, 131287
  4. Tao Liu, Shuai Zhang, Xiaoyu Fan, Dou Yang, Min Wang, Xiaodong Shao, Shuhao Wang, **Qiaoli Yue\***, Inner filter effect induced fluorescence quenching of carbon dots for Cr(VI) detection with high sensitivity, *J. Fluoresc.*, **2022**, 32(6), 2343–2350
  5. Yongping Wang, **Qiaoli Yue\***, Yingying Hu, Chen Liu, Lixia Tao, Cong Zhang, Synthesis of N-doped carbon dots and application in vanillin detection based on collisional quenching, *RSC Adv.*, **2019**, 9, 40222–40227
  6. **Shuling Xu\***, Hefu Li, Meng Guo, Lei Wang, Xia Li, **Qingwang Xue\***, Liquid–liquid interfacial self-assembled triangular Ag nanoplate-based high-density and ordered SERS-active arrays for the sensitive detection of dibutyl phthalate (DBP) in edible oils, *Analyst*, 2021, 146, 4858–4864
  7. **Shuling Xu\***, Xinxing Cao, Yanke Zhou, Polyvinylpyrrolidone-functionalized silver nanoparticles for SERS based determination of copper (II), *Microchimica Acta* (2019) 186: 562
  8. Yingying Hu, Rentian Guan, Cong Zhang, Keying Zhang, Wenjing Liu, Xiaodong Shao, Qingwang Xue, **Qiaoli Yue\***, Fluorescence and photocatalytic activity of metal-free nitrogen-doped carbon quantum dots with varying nitrogen contents, *Appl. Surface Sci.*, **2020**, 531, 147344
  9. Xiaoyu Fan, Shuai Zhang, Rentian Guan, Xiaodong Shao, Shuhan Jiang, Yingying Hu, Shuhao Wang, **Qiaoli Yue\***, Black phosphorus quantum dots as photocatalyst for dye degradation with a high efficiency and rate constant, *J. Mol. Struct.*, **2022**, 1252, 132163
  10. Shuai Zhang, Xiaoyu Fan, Rentian Guan, Yingying Hu, Shuhan Jiang, Xiaodong Shao, Shuhao Wang, **Qiaoli Yue\***, Carbon dots as metal-free photocatalyst for dye degradation with high efficiency within nine minutes in dark, *Opt. Mater.*, **2022**, 123, 111914