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研究方向	环境治理（废水、废气），环境监测（废水、废气），新能源开发					
主要科研项目及代表性成果(包括项目、论文、专著、获奖、专利等):						
<p>科研项目:</p> <ol style="list-style-type: none"> 1. 8万吨/年工业废盐渣资源化利用系统，企业项目，第一，2023.6-至今，在研 2. 山东近海有机磷污染物的时空分布、来源和生态效益，国家基金项目，第三，2022.11-至今，在研。 3. 高附加值柠檬酸基芳香族聚酯的合成和性能研究，国家基金项目 2016.1-2018.12，第三，结项。 4. 具有限域负载功能的介孔 MOFs 的设计与合成及其催化性能研究，国家基金项目，2017.1-2019.12，第三，结项。 5. 可循环使用的新型高效填料的研究，企业项目，第一，2016.5-2017.5，结项。 <p>代表性论文、著作、专利等:</p> <p>论文</p> <ol style="list-style-type: none"> 1. Zhen Zhu, Hsiang-Ning Luk**, Yi-Min Huang, Yu-Cheng Zhang, Xu-Jia Chang, Ren-Jang Wu*, Silver/Graphene–Polypyrrole Composite for Levosimendan Detection. Journal of the Chinese Chemical Society, 2023.3 (SCI) 2. Zhen Zhu, Hsiang-Ning Luk*, Yu-Shih Liu, Ren-Jang Wu*, Ming-Hung Chung, Xu-Jia Chang, Preparation of Bimetallic Au-Pd/MWCNTs Electrode for Detection of Dopamine. Minerals, 2022.9 (SCI) 3. Zhen Zhu, Chia-Ying Hsieh, Zong-Xian Chiang, Yu-Syuan Lin, Ren-Jang Wu*, Nanoarchitectonics of three-dimensional ZnO-BiVO₄ for trace nitrogen dioxide gas detection. Ceramics International, 2022.3 (SCI) 4. Zhen Zhu, Bo-Xun Jiang, Ren-Jang Wu *, Cheng-Liang Huang *, You Chang, Photoreduction of CO₂ into CH₄ Using Novel Composite of Triangular Silver Nanoplates on Graphene-BiVO₄. Catalysts, 2022.7 (SCI) 5. Zhen Zhu, Yu-Chen Lin, Ching-Lan Chung, Ren-Jang Wu*, Cheng-Liang Huang*, A Novel Composite of Triangular Silver Nanoplates on BiVO₄ for Gaseous Formaldehyde Degradation. Applied Surface Science, 2021.3 (SCI) 						

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8. Meilin Yin, **Zhen Zhu***, Mesoporous NiO as an ultra-highly sensitive and selective gas sensor for sensing of trace ammonia at room temperature. Journal of Alloys and Compounds, 2019.6 (SCI)
9. Meilin Yin, **Zhen Zhu***, Preparation of 3D flower-like Fe-Bi₂O₃ nanocomposite and its photocatalytic performance under visible light irradiation. Optik, 2019.3 (SCI)
10. **Zhen Zhu**, Wei-Ru Huang, Chin-Yuan Chen, Ren-Jang Wu*, Preparation of Pd–Au/TiO₂–WO₃ to Enhance Photoreduction of CO₂ to CH₄ and CO. Journal of CO₂ Utilization, 2018.12 (SCI)
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14. **Zhen Zhu**, Cheng-Tse Kao, Bing-Hong Tang, Wei-Chen Chang, Ren-Jang Wu*, Efficient hydrogen production by photocatalytic water-splitting using Pt-doped TiO₂ hollow spheres under visible light. Ceramics International, 2016.5 (SCI)
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16. **Zhen Zhu**, Cheng-Tse Kao, Ren-Jang Wu*, A Highly Sensitive Ethanol Sensor Based on Ag@TiO₂ nanoparticles at Room Temperature. Applied Surface Science, 2014.10 (SCI)

发明专利

1. **朱振**, 尹美琳, 一种具有氨气气敏性能的介孔氧化镍的制备方法, 中国, 专利号: ZL 2016 1 0321095.6。

著作

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