

个人简介

个人信息

姓名：倪天军 出生年月：1980年10月
民族：汉族 所在学系：医用化学系
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电话：0373-3831859 最后学历学位：博士研究生
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从事专业及研究方向

- 分子识别探针与化学生物传感
- 环境持久污染物的降解和评价

教育背景及工作经历（按时间倒叙排列）

- 2023/12-至今 新乡医学院 基础医学院 教授（直聘）
- 2016.06-2023/11 新乡医学院 基础医学院 副教授
- 2014.09-2021.06 河南师范大学 环境科学 博士研究生
- 2010.06-2016.05 新乡医学院 基础医学院 讲师
- 2007.09-2010.06 上海大学 无机化学 硕士研究生
- 2003.06-2007.08 新乡医学院 基础医学院 助教

参加项目（按时间倒叙排列）

- 河南省教育厅基础研究专项，24ZX009，新型气体传感器阵列的可控制备及其增敏检测肺癌呼出气体 VOCs 的研究，2024-01 至 2026-12，30 万，在研，主持；
- 国家自然科学基金面上项目，22276159，基于 3D-COFs/M 光-热-金属协同增效活化 PMS 体系的构建及其降解抗生素的效能与机理研究，2023/01-2026/12，54 万元，在研，主持；
- 国家自然科学基金专项项目，J2224005，区域创新发展联合基金项目绩效评估及评估结果应用研究，2023/01-2023/12，28 万元，在研，主持；
- 河南省自然科学基金面上项目，202300410327，新型双模式成像/协同治疗的纳米载体构建及其对胰腺癌诊疗一体化研究，河南省科技厅，2020/01-2021/12，10 万元，已结题，主持；
- 国家自然科学基金青年项目，81401470，以双核铜、锌配合物为靶向的多模式探针的设计合成及其对前列腺癌的成像检测研究，2015/01-2017/12，23 万元，已结题，主持；

代表性成果（按时间倒叙排列）

代表性论文：

- Controlled synthesis of α -Fe₂O₃ nanocubes for gas-sensing applications: Feasibility of assessing crucian carp (*Carassius auratus*) freshness via trimethylamine levels, Keheng Zhu, Zhenhua Zhu, Shanshan Xu, Cheng Zhao*, **Tianjun Ni***, Food Chemistry, 2024, 441,138361. (IF=8.8)
- Dual-modal flexible zinc-air battery-driven self-powered and impedimetric aptasensor based on the hybrid of V₂CTx MXene and bimetallic layered double hydroxide for the detection of cortisol, Jiameng Liu, Zheng Tao, Yinpeng Zhang, **Tianjun Ni***, Baozhong Liu*, Zhihong Zhang*, Microchemica Journal, 2024, 197, 109757. (IF=4.8)

- [3] Visible light-driven C/O-g-C₃N₄ activating peroxydisulfate to effectively inactivate antibiotic resistant bacteria and inhibit the transformation of antibiotic resistance genes: Insights on the mechanism, Jingge Du, Na Zhang, Shuanglong Ma*, Guansong Wang, Chang Ma, Guangyong Liu, Yan Wang*, Jingzhen Wang, **Tianjun Ni***, Zhen An, Weidong Wu, *Journal of Hazardous Materials*, 2024, 464, 132972. (IF=13.6)
- [4] Integrating bimetallic nanoclusters onto a porous g-C₃N₄ support for efficient degradation of metronidazole: Performance and mechanism study, Hui Zhang, Liping Zhou, Zhonghu Dong, Yanyu Wang, Zhilun Yang, Kaiwen Chang, Chunpo Ge, Dong Liu*, Haijin Liu, Likun Pan*, **Tianjun Ni***, *Separation and Purification Technology*, 2024, 330, Part A, 125239. (IF=8.6)
- [5] Design of flavonol-loaded cationic gold nanoparticles with enhanced antioxidant and antibacterial activities and their interaction with proteins, Xiangrong Li*, Ruonan Xu, Li Shi, **Tianjun Ni***, *International Journal of Biological Macromolecules*, 2023, 253, Part 4, 127074. (IF=8.2)
- [6] Facile fabrication of 3D hollow porous aminopyridine rings decorated polymeric carbon nitride, for enhanced photocatalytic hydrogen evolution and dye elimination, Dong Liu*, Congyue Zhao, Chunling Li, Jiaojiao Jia, Minghui Chen, Likun Pan*, Yichun Bai, Weidong Wu, **Tianjun Ni***, *Journal of Colloid and Interface Science* 2023, 649, 334-343. (IF=9.9)
- [7] Enhanced activation performance of peroxy monosulfate by NiCo₂O₄/SnO₂ composite for metronidazole degradation under visible light, Zhibin Yang, Hui Zhang, Liping Zhou, Zhonghu Dong, Yanyu Wang, Dong Liu* **Tianjun Ni***, *Journal of Alloys and Compounds* 2023. 949169879. (IF=9.9)
- [8] Effects of B-ring structures on binding behavior of flavonols with proteins: Experimental and molecular docking approaches, Xiangrong Li, Ruonan Xu, **Tianjun Ni***, *Journal of Molecular Structure*, 2023, 1287, 135614. (IF=3.8)
- [9] Effective removal of antineoplastic doxorubicin by 0D Nb₂O₅ quantum dots embedded 3D porous C-doped g-C₃N₄: Degradation mechanism, pathway and toxicity assessment, Congyue Zhao, Chunling Li, Minghui Chen, Tianqi Niu, Qian Zhao, **Tianjun Ni***, Dong Yan, Weidong Wu, Dong Liu*, *Applied Surface Science*, 2023, 612, 155861. (IF=7.4)
- [10] Ultra-thin CoAl layered double hydroxide nanosheets for the construction of highly sensitive and selective QCM humidity sensor, Yongheng Zhu, Xuhua Dong, Jinsheng Cheng, Lumin Wang, Cheng Zhao, Yonghui Deng, Siqi Xie, Yingjie Pan, Yong Zhao*, Gengzhi Sun*, **Tianjun Ni***, *Chinese Chemical Letters*, 2022, 34, 107930. (IF=9.1)
- [11] Efficient photocatalytic organic degradation and disinfection performance for Ag/AgFeO₂/g-C₃N₄ nanocomposites under visible-light: Insights into the photocatalysis mechanism, Jingge Du, Shuanglong Ma*, Na Zhang, Wenjing Liu, Mengdi Lv, **Tianjun Ni***, Zhen An, Kai Li, Yichun Bai, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 2022, 654, 130094. (IF=5.5)
- [12] Facile in situ synthesis of three-dimensional hollow porous carbon doped polymeric carbon nitride with highly efficient photocatalytic performance and mechanism insight, Dong Liu, Chunling Li, Jiayu Ge, Congyue Zhao, Likun Pan*, Fengquan Zhang, **Tianjun Ni***, *Chemical Engineering Journal*, 2022, 438, 135623. (IF=16.7)

- [15] Peroxymonosulfate activation by $\text{Co}_3\text{O}_4/\text{SnO}_2$ for efficient degradation of ofloxacin under visible light, **Tianjun Ni***, Zhibin Yang, Hui Zhang, Liping Zhou, Wei Guo, Likun Pan*, Zhijun Yang, Kaiwen Chang, Chunpo Ge, Dong Liu*, Journal of Colloid and Interface Science, 2022, 615, 650-662. (IF=9.9)
- [16] Enhanced adsorption and catalytic degradation of antibiotics by porous 0D/3D $\text{Co}_3\text{O}_4/\text{g-C}_3\text{N}_4$ activated peroxymonosulfate: An experimental and mechanistic study, **Tianjun Ni**, Hui Zhang, Zhibin Yang, Liping Zhou, Likun Pan*, Chunling Li, Zhijun Yang*, Dong Liu*, Journal of Colloid and Interface Science, 2022, 625, 466-478. (IF=9.9)
- [17] 3D interconnected $\text{g-C}_3\text{N}_4$ hybridized with 2D Ti_3C_2 MXene nanosheets for enhancing visible light photocatalytic hydrogen evolution and dye contaminant elimination, Dong Liu, Chunling Li, Jiayu Ge, Congyue Zhao, Qian Zhao*, Fengquan Zhang, **Tianjun Ni***, Weidong Wu, Applied Surface Science, 2022, 579, 152180. (IF=7.4)
- [18] Visible light assisted peroxymonosulfate activation by NiO/SnO_2 composite, **Tianjun Ni**, Zhibin Yang, Hui Zhang, Liping Zhou, Wei Guo, Dong Liu*, Kaiwen Chang, Chunpo Ge, Zhijun Yang*, Applied Surface Science, 2022, 604, 154537. (IF=7.4)
- [19] Cu-CDs Decorated Mesoporous WO_3 for Enhanced Photocatalysis under UV-Vis-NIR Light Irradiation, **Tianjun Ni***, Qiansheng Li, Yunhui Yan, Zhijun Yang, Kaiwen Chang and Guoguang Liu*. N, Frontiers in Materials, 2021, 8, 649411. (IF=3.2)
- [20] Tunable and sustainable photocatalytic activity of photochromic Y-WO_3 under visible light irradiation, Qiansheng Li, Hui Zhang, Yunhui Yan, Zhijun Yang, Yingling Wang*, Guoguang Liu, **Tianjun Ni***, RSC Advances, 2021, 11 (2): 1147-1152. (IF=3.4)
- [21] Comparative study on the interaction between flavonoids with different core structures and hyaluronidase, Xiangrong Li*, Ruonan Xu, Zeqing Cheng, Zhizhi Song, Ziyang Wang, Hanxiao Duan, Xinzhe Wu, **Tianjun Ni***. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 2021, 262, 120079. (IF=4.1)

授权发明专利:

- [1] 一种钴酸镍/氧化锡复合催化剂及其制备方法和应用, 中国知识产权局, 发明专利, ZL 2023 1 0080146.0, **倪天军**、刘海津、杨质斌、彭建彪、刘冬、袁鹏、闫云辉、杜锦阁、汪应灵。
- [2] 一种超分子配合物及其制备方法和应用, 中国知识产权局, 发明专利, ZL 2020 1 1314770.5, **倪天军**、李钱生、齐巧芳、闫瑞芳、常开文、闫云辉、汪应灵、杨志军。
- [3] 一种 $\text{N}_2\text{Cu-CDs}/\text{m-WO}_3$ 介孔复合材料及其制备方法和应用, 中国知识产权局, 发明专利, ZL 2020 1 1248169.0, **倪天军**、李钱生、刘冬、齐巧芳、常开文、闫云辉、杨志军、汪应灵。