丁玲简介

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工作单位：化学与化工学院　　职称：教授

毕业学校：武汉大学　　毕业专业：环境科学与工程

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科研与工作经历：

1. 2005-至今 武汉科技大学化学与化工学院教师

2. 2014-2015 美国 Purdue University 访问学者

研究生招生方向：

环境友好化工技术开发及应用；先进能源与环境材料的制备及应用；资源循环及回收利用；

欢迎：化学、化工、资源和环境等专业学生报考。

学术兼职：Materials Research Bulletin; Journal of fluorescence; Journal of Photochemistry and Photobiology A: Chemistry; Current Nanoscience 等 SCI 期刊审稿人；中国化工学会会员。

主持和参与的部分科研项目：

1. 光电化学材料与器件教育部重点实验室基金，激光冲击调控石墨烯基柔性电极的制备及电化学性能研究
2. 重点实验室基金，高炉灰制备α-Fe_2O_3/$ZnFe_2O_4$基光催化剂及降解焦化废水的研究
3. 现代设施农业福建省高校工程研究中心基金，GO-CDs/TiO_2复合材料的制备及去除环境污染物的研究
4. 总装备部项目，******的设计与制备
5. 校企合作项目，新型碳基复合材料的制备及痕量有害物质检测技术开发
6. 湖北省自然科学基金，石墨烯负载碳量子点复合材料的制备及电化学性能研究
7. 国家自然科学基金，葫芦[10]脲的分子识别及作为超分子纳米反应器的研究
8. 国家重点实验室基金，石墨烯量子点复合材料的制备及检测污染物的研究
9. 宝山钢铁股份有限公司项目，喷吹煤性能与结构优化研究
10. 重点实验室基金，焦粉制备碳量子点的研究
11. 湖北省教育厅科学技术研究计划青年人才项目，CdTe 量子点/蛋白质纳米标记材料的制备及其生长机理研究
12. 国家自然科学基金，高氯酸盐对鱼肝原代培养细胞的毒性效应及分子机理研究
13. 国家高技术研究发展计划(863 计划)项目，量子点标记细胞及生物大分子体系检测痕量环境有毒化学品毒性效应技术
14. 国家自然科学基金，磁性微球的制备及其与抗体和细胞相互作用的研究
15. 主持和参与企业横向项目多项。

公开发表的部分论文：

[1] Yaqi Wang; **Ling Ding**; Hui Yu; Feng Liang. Cucurbit[6]uril functionalized gold nanoparticles and electrode for the detection of metformin drug. *Chinese Chemical Letters,* 2022, 33(1)：283-287.

[2] Shijie Tong; Jin Zhou; **Ling Ding**; Chuang Zhou; Yi Liu; Shiqian Li; Juan Meng; Shilin Zhu; Sobhan Chatterjee; Feng Liang. Preparation of carbon quantum dots/TiO_2 composite and application for enhanced photodegradation of rhodamine B. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 2022, 648: 129342.

[3] Hao Zhang; Kuntao Huang; **Ling Ding**; Jie Yang; Yingwei Yang; Feng Liang. Electrochemical determination of paraquat using a glassy carbon electrode decorated with pillararene-coated nitrogen-doped carbon dots. *Chinese Chemical Letters*, 2022, 33(3): 1537-1540.

[4] Juan Meng; Shiqian Li; **Ling Ding**; Chuang Zhou; Rui Jiang; Qingtian Zhang; Zhengzai Cheng; Mario Gauthier; Ya Hu; Lin Wu. Preparation of Nitrogen-doped Carbon Dots from Coke Powder as a Fluorescent Chemosensor for Selective and Sensitive Detection of Cr (VI). *Journal of Wuhan University of Technology-Mater. Sci. Ed*. 2022, 37(6):1096-1104.

[5] **Ding Ling**, Jiang Rui, Tang Zilong, Yang Yunqiong. Research Progress of Nanoengineering of MXene and Their Applications as Electrode Materials for Supercapacitors. *Journal of Inorganic Materials,*2022,12, DOI: 10.15541/jim20220566.

[6] Kun Bi; Dini Wang; Rui Dai; Lei Liu; Yan Wang; Yongfeng Lu; Yiliang Liao; **Ling Ding**; Houlong Zhuang; Qiong Nian. Scalable nanomanufacturing of holey graphene via chemical etching: an investigation into process mechanisms. *Nanoscale*, 2022, 14(12): 4762-4769.

[7] **Ling Ding;** Huan He; Zhou Jin; Dini Wang; Qiong Nian; Shiqian Li; Shihui Qian; Wenbing Li; Cui Liu; Zhengyong Liang. Preparation of high-quality graphene oxide-carbon quantum dots composites and their application for electrochemical sensing of uric acid and ascorbic acid. *Nanotechnology*, 2021, 32(13):135501.

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[9] Zheng Zhang; Guanghua Wang; Wenbing Li; Lidong Zhang; Benwei Guo; **Ling Ding**; Xiangcheng Li. Photocatalyti cactivity of magnetic nano-FeOOH/Fe_3O_4/biochar composites for the enhanced degradation of methyl orange under visible light. *Nanomaterials*, 2021,11:526.

[10] **Ling Ding;** Kuntao Huang; Shiqian Li; Jin Zhou; Huan He; Zeze Peng; Chatterjee Sobhan; Feng Liang. One-Pot Hydrothermal Synthesis of Carbon Quantum Dots with Excellent Photoluminescent Properties and Catalytic Activity from Coke Powders. *Journal of* Fluorescence, 2020, 30: 151-156.

[11] Shiqian Li; Penchi Chiang; **Ling Ding**; Kinjal J. Shah; Qinghua Chen; Sheng Chen. ZnO-chitosan/Rectorite Nanocomposite Exhibiting High Photocatalytic Activities under Visible-light Irradiation. *Journal of Wuhan University of Technology-Mater. Sci. Ed*., 2020, 35(2): 310-319.

[12] Silong Zhang; Zhengzai Cheng; Sheng Zeng; Guangyao Li; JingXiong; **Ling Ding**; Mario Gauthier. Synthesis and Characterization of Renewable Polyesters Basedon Vanillic Acid. *Journal of Applied Polymer Science*, 2020, 137(39), 49189

[13] Zheng Zhang; Guanghua Wang; Wenbing Li; Lidong Zhang; Tie Chen; **Ling Ding.** Degradation of methyl orange through hydroxyl radical generated by optically excited biochar: Performance and mechanism. *Colloids and Surfaces A: Physicochemical and Engineering Aspects* , 2020, 601: 125034.

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[15] **Ling Ding;** Huan He; Shiqian Li; Jin Zhou; Kuntao Huang; Zhengzai Cheng; Mario Gauthier. Interaction Studies of Different Lights Irradiated ZnSe QDs with BSA by Spectroscopy, *Journal of Wuhan University of Technology-Mater. Sci. Ed.,* 2019, 34(4): 858-865.

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已授权的部分发明专利：

[1] 以焦粉为碳源的碳量子点荧光标记材料及其制备方法，中国，2018-09-07, ZL201610332536.2.
[2] 一种碳量子点荧光标记材料及其制备方法，中国, 2020-01-07, ZL201710209889.8.
[3] 一种 ZnSe/ZnS 核壳结构量子点的制备方法，中国, 2013-11-27, ZL 201110429970.X.
[4] 一种改质沥青的低温制备方法，中国, 2020-11-03, ZL 201911005356.3.
[5] 一种大孔强酸性树脂的制备方法及其应用，中国，2021-07-27，CN108794662B