导师简介

<table>
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<tr><td>学术头衔/兼职</td><td colspan="5">化学学会会员</td></tr>
<tr><td>研究方向</td><td colspan="6">水污染控制、微生物腐蚀、生物电化学</td></tr>
<tr><td>主要学习科研和工作经历</td><td colspan="6">教育经历：
(1) 2009-09 至 2014-12, 大连理工大学, 环境工程, 博士
(2) 2005-09 至 2009-07, 大连理工大学, 环境工程, 学士
科研与学术工作经历（博士后工作经历除外）：
(1) 2020-05 至 今, 郑州大学, 水利科学与工程学院, 副教授
(2) 2019-01 至 2020-04, 郑州大学, 水利科学与工程学院, 副教授（直聘）
(3) 2014-12 至 2018-12, 郑州大学, 水利与环境学院, 讲师</td></tr>
<tr><td>代表性科研成果</td><td colspan="6">一、科研项目
(1) 国家自然科学基金委员会, 青年科学基金项目, 21806145, 极性反转 MFC 中电化学活性菌及其电子传递 机制研究, 2019-01-01 至 2021-12-31, 21 万元, 结题, 主持
(2) 国家自然科学基金委员会, 联合基金项目, U1704125, 基于高分遥感的内陆地表水化学需氧量反演机 理研究, 2018-01-01 至 2020-12-31, 52 万元, 结题, 参与
(3) 国家自然科学基金委员会, 青年科学基金项目, 51606171, 涡激振动压电俘能的紧耦合机理研究, 2017-01-01 至 2019-12-31, 20 万元, 结题, 参与
二、论文论著
(1) Chao Zhang; Wenjing Xing; Guangyi Zhang*; Zezhuang Li; Yangyang Xia; Cuixia Wang; Hongyuan Fang, Dual-Stress aging of UV-CIPP composites: Microbial and mechanical degradation mechanisms in corrosive environments, Journal of Hazardous Materials, 2025,498:139938
(2) Zisheng Zhao; Hongxin Wu; Yu An; Long Huang; Guangyi Zhang, Enhancing anaerobic digestion of waste activated sludge with iron modified tea-based biochar via improving electron transfer and metabolic activity, Renewable Energy, 2025, 242:122458
(3) Yiming Yuan; Guangyi Zhang*; Hongyuan Fang*; Siwei Peng; Yangyang Xia; Fuming Wang; The ecology of the sewer systems: Microbial composition, function, assembly, and network in different spatial locations, Journal of Environmental Management, 2024: 121107</td></tr>
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	(4) Yongkang Li; Guangyi Zhang*; Danxin Liang; Xiaoqin Wang; Haifeng Guo; Tetracycline hydrochloride degradation in polarity inverted microbial fuel cells: Performance, mechanisms and microbiology, Chemosphere, 2023, 349: 140902 (5) Guangyi Zhang; Wanxue Chen; Ming Dou; Dezhi Su; Jiatao Zhang; Zisheng Zhao*; Application of iron oxides modified volcanic rock in continuous phenol wastewater anaerobic treatment: Performance and underlying mechanisms, Renewable Energy, 2023, 217: 119214 (6) Guangyi Zhang; Zhongchen Wang; Mengshuo Liu; Long Huang*; Yuanyuan Jiao; Zisheng Zhao; Self-Driven Electrokinetic Remediation of Cd Contamination Soil by Using Double-Chamber Microbial Fuel Cell, Journal of The Electrochemical Society, 2023, 170: 075502 (7) 张广毅; 张嘉涛; 王晓伟*; 湖泊底泥微生物燃料电池中磷形态分布及释放研究, 生态环境学报, 2023, 38(03): 590-598 (8) 王莉; 王忠晨; 张广毅*; 艾佳鑫; 徐敏; 小麦秸秆生物炭稳定土壤中金属镉及微生物群落响应, 化工环保, 2023, 43(02): 200-205 (9) Yiming Yuan; Guangyi Zhang*; Hongyuan Fang*; Dezhi Su; Fuming Wang; Microbial Spatial Distribution and Corrosion Evaluation in Urban Sewer Systems with Different Service Lives, Engineering Failure Analysis, 2022, 139: 106482-106494 10) 袁艺鸣; 张广毅*; 方宏远; 苏德志 ; 排水管道微生物群落对管道腐蚀的影响, 中国给水排水, 2022, 38(8): 46-51 (11) Guangyi Zhang; Danxin Liang; Zisheng Zhao*; Jingsa Qi; Long Huang ; Enhanced performance of microbial fuel cell with electron mediators from tetracycline hydrochloride degradation, Environmental Research, 2022, 206: 112605 (12) Guangyi Zhang; Yinghao Shi; Wanxue Chen; Ming Dou; Zisheng Zhao*; Xiaowei Wang; Tingting Zhang ; Methane production from waste activated sludge by combining calcium peroxide pretreatment with zero valent iron bio-enhancement: Performance and mechanisms, Journal of Cleaner Production, 2021, 320: 128773 (13) Zhang, Guangyi; Shi, Yinghao; Zhao, Zisheng*; Wang, Xiaowei; Dou, Ming ; Enhanced twophase anaerobic digestion of waste-activated sludge by combining magnetite and zero-valent iron, Bioresource Technology, 2020, 306: 123122 三、授权专利 (1) 于鲁冀; 张广毅; 柏义生; 陈涛; 李廷梅; 一种水体净化微生物燃料电池滤坝, 2017-11-10, 中国, CN201510970692.7 (专利) (2) 于鲁冀; 柏义生; 颜伟峰; 李羽仙; 陈涛; 张广毅; 张长; 一种用于城市河道水体原位生物生态修复 集成系统, 2017-8-11, 中国, ZL201621294703.0 (专利) (3) 于鲁冀; 柏义生; 颜伟峰; 李羽仙; 陈涛; 张广毅; 张长; 用于城市河道水体原位生物生态修复集成 系统, 2016-11-30, 中国, CN201611075202.8 (专利) (4) 张捍民; 张广毅; 张嵘; 杨凤林; 分离膜生物阴极微生物燃料电池及污水处理方法, 2014-11-12, 中 国, CN201210208272.1 (专利) (5) 张捍民; 张广毅; 序批式电极反转微生物燃料电池及其应用, 2015-10-14, 中国, CN201310612780.0 (专利)