INSTITUTE OF AGRICULTURAL RESOURCES
AND REGIONAL PLANNING , CAAS

Wang Bobo

Assistant Professor

86-15201528939 **wangbobo@caas.cn**

Innovation Team of Non-point Source Pollution Control,IARRP,CAAS

Dongpei Building,12 Zhongguancun Nandajie Street, Haidian District, Beijing, China

Research Interests

- **Environmental microbiology**
- **Microbial resource collection and application**
- **Recycling of Solid Wastes**
- **Environmental pollution control**

Publication

Biocatalytic cascade for the synthesis of methylphosphonate from phosphoenolpyruvate, Microbial Cell Factories, 2025, DOI: 10.1186/s12934-025-02858-y

Exploring potential synergies in the integration of anaerobic co-digestion with dark fermentation or microbial electrolysis to enhance methane output, Biofuels, 2025, DOI: 10.1080/17597269.2025.2506882

Effects of the applied voltage on electroactive microbial biofilm viability and hydrogen production in a recalcitrant organic waste-fed single-chamber membrane-free microbial electrolysis cell performance, Chemical Engineering Journal,2023,DOI: 10.1016/j.cej.2023.144002

Enhanced visible light assisted peroxymonosulfate process by biochar in-situ enriched with γ-Fe2O3 for p-chlorophenol degradation: performance, mechanism and DFT calculation, Journal of Hazardous Materials, 2023, DOI: 10.1016/j.jhazmat.2022.130593

Gut region induces gastrointestinal microbiota community shift in Ujimqin sheep (Ovis aries): from a multi-domain perspective, Environmental Microbiology, 2021, DOI:10.1111/1462-2920.15782

Deciphering the initial products of coal during methanogenic bioconversion: Based on an untargeted metabolomics approach,Global Change Biology Bioenergy, 2021, DOI: 10.1111/gcbb.12824

iTRAQ-facilitated proteomic analysis of Bacillus cereus via degradation of malachite green, Journal of Microbiology, 2021, DOI: 10.1007/s12275-021-0441-0

Bioconversion of coal to methane by microbial communities from soil and from an opencast mine in the Xilingol grassland of northeast China, Biotechnology for Biofuels, 2019, DOI: 10.1186/s13068-019-1572-y

Microbial electrohydrogenesis cell and dark fermentation integrated system enhances biohydrogen production from lignocellulosic agricultural wastes: Substrate pretreatment towards optimization, Renewable and Sustainable Energy Reviews, 2021, DOI: 10.1016/j.rser.2021.111078

Pleiotropic effects of temperature-regulated 2-OH-lauroytransferase (PA0011) on Pseudomonas aeruginosa antibiotic resistance, virulence and type III secretion system, Microbial Pathogenesis, 2016, DOI: 10.1016/j.micpath.2015.11.003