INSTITUTE OF AGRICULTURAL RESOURCES AND REGIONAL PLANNING , CAAS

Xu Meng

Assistant Professor

86-15501132279 **xumeng@caas.cn**

Innovation Team of Fertilizer and Fertilization Technology, IARRP, CAAS

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

Research Interests

- **New type of fertilizer**
- **Value-added fertilizer**
- **Foliar fertilizer**
- **Plant nutrition**
- **Biofortification**

Publication

Glycine-chelated zinc rather than glycine-mixed zinc has lower foliar phytotoxicity than zinc sulfate and enhances zinc biofortification in waxy corn , Food Chemistry , 2022, DOI: 10.1016/j.foodchem.2021.131031

Glycine-chelated zinc lowered foliar phytotoxicity than excess zinc sulfate and improved zinc use efficiency in two sweet potato cultivars , Scientia Horticulturae , 2022, DOI: 10.1016/j.scienta.2022.110880

A safe, high fertilizer-efficiency and economical approach based on a low-volume spraying UAV loaded with chelated-zinc fertilizer to produce zinc-biofortified rice grains , Journal of Cleaner

Production , 2021, DOI: 10.1016/j.jclepro.2021.129188

Spraying high concentrations of chelated zinc enhances zinc biofortification in wheat grain , Journal of the Science of Food & Agriculture , 2021, DOI: 10.1002/jsfa.11705

Organic and inorganic sulfur and nitrogen uptake by co-existing grassland plant species competing with soil microorganisms ,Soil Biology and Biochemistry , 2022, DOI: 10.1016/j.soilbio.2022.108627

Effects of desalinated wastewater containing monosodium glutamate on germination and growth of pakchoi under Na2CO3 stress（CN）, Journal of Plant Nutrition and Fertilizers , 2019, DOI: 10.11674/zwyf.18281

Effects of a fertilizer synergist containing compound amino acids on seed germination and seedling growth of pakchoi under NaCl stress（CN）, Journal of Plant Nutrition and Fertilizers , 2018, DOI: 10.11674/zwyf.17440

Nano zero-valent iron-induced changes in soil iron species and soil bacterial communities contribute to the fate of Cd , Journal of Hazardous Materials , 2021, DOI: 10.1016/j.jhazmat.2021.127343

Poorly crystalline Fe(II) mineral phases induced by nano zero-valent iron are responsible for Cd stabilization with different soil moisture conditions and soil types , Ecotoxicology and Environmental Safety , 2021, DOI: 10.1016/j.ecoenv.2021.112616

Plant–microbial competition for amino acids depends on soil acidity and the microbial community , Plant and Soil , 2022, DOI: 10.1007/s11104-022-05381-w