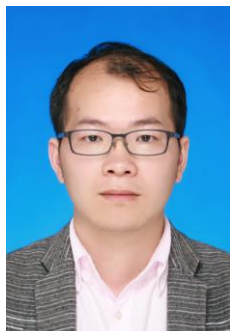


## 个人信息



---

(3) 省部共建食品营养与安全国家重点实验室, 开放课题, 光响应银基温敏型聚合物水凝胶的构建与抗菌性能研究, 2021 年 10 月至 2022 年 10 月, 5 万, 主持, 在研;

(4) 华中农业大学自主创新基金, 高水平论文培育专项, 细胞膜仿生纳米平台构建及其用于幽门螺旋杆菌靶向治疗研究, 2020 年 05 月至 2023 年 4 月, 21 万, 主持, 在研;

(5) 华中农业大学, 教师启动基金, 纳米材料介导的单克隆抗体细胞内递送及协同抗病毒治疗, 2016 年 09 月至 2019 年 08 月, 15 万, 主持, 结题;

(6) 广西科技重大专项, 柑橘黄龙病菌防治药剂、材料的筛选与创制, 2017 年 9 月至 2020 年 12 月, 84 万, 参与, 排名 2/9;

(7) 国家自然科学基金, 面上项目, 狂犬病病毒脑内分布的三维成像分析及其光热清除策略研究, 2018 年 01 至 2021 年 12 月, 64 万, 参与, 排名 3/8。

### 代表作

(1) Jun Ma, Yi Zhou, Jiaying Li, **Zhiyong Song**\* and Heyou Han\*. Novel approach to enhance nodulation through continuous induction of ROS by manganese ferrite nanomaterials, *Journal of Nanobiotechnology*, 2022, 20, 168. (IF:10.4345)

(2) Yang Wu<sup>#</sup>, **Zhiyong Song**<sup>#</sup>, Guiyun Deng, Kai Jiang, Huajuan Wang, Xueji Zhang\* and Heyou Han\*. Gastric Acid Powered Nanomotors Release Antibiotics for In Vivo Treatment of Helicobacter pylori Infection, *Small*, 2021, 2006877. (IF: 13.2817)

(3) Yang Wu, Guiyun Deng, Kai Jiang, Huajuan Wang, **Zhiyong Song**\*, Heyou Han\*. Photothermally triggered nitric oxide nanogenerator targeting type IV pili for precise therapy of bacterial infections, *Biomaterials*, 2021, 120588. (IF: 12.4791)

(4) Huajuan Wang<sup>#</sup>, Jin Zhang<sup>#</sup>, **Zhiyong Song**<sup>#</sup>, Yongli Mu, MF Foda, Yang Wu, Heyou Han. An intelligent platform based on acidity-triggered aggregation of gold nanoparticles for precise photothermal ablation of focal bacterial infection, *Chemical Engineering Journal*, 2021, 127076. (IF: 13.2733)

(5) Yang Wu<sup>#</sup>, **Zhiyong Song**<sup>#</sup>, Huajuan Wang, Heyou Han\* Endogenous stimulus-powered antibiotic release from nanoreactors for a combination therapy of bacterial infections *Nature Communications*, 2019, 10 (1), 4464 (IF: 14.919).

(6) **Zhiyong Song**<sup>#</sup>, Yang Wu<sup>#</sup>, Qi Cao, Huajuan Wang, Xiangru Wang, Heyou Han\*. pH-Responsive, Light-Triggered on-Demand Antibiotic Release from Functional Metal–Organic Framework for Bacterial Infection Combination Therapy, *Advanced Functional Materials*, 2018, 28 (23), 1800011. (IF: 18.808).

(7) **Zhiyong Song**, Xiaoyu Wang\*, Genxin Zhu, Qinggong Nian, Hangyu Zhou,

---

Dong Yang, Chenfeng Qin, Ruikang Tang\*.Virus Capture and Destruction by Label-Free Graphene Oxide for Detection and Disinfection Applications, *Small*, 2015, 11 (9-10), 1171-1176. (IF: 13.281)

(8) Jun Ma<sup>#</sup>, **Zhiyong Song<sup>#</sup>**, Jianhong Yang, Youning Wang, Heyou Han\*.Cobalt Ferrite Nanozyme for Efficient Symbiotic Nitrogen Fixation via Regulating Reactive Oxygen Metabolism, *Environmental Science: Nano*, 2021, 8(1): 188-203. (IF: 8.1315)

(9) Jianhong Yang<sup>#</sup>, **Zhiyong Song<sup>#</sup>**, Jun Ma, Heyou Han\*. Toxicity of Molybdenum-Based Nanomaterials on the Soybean–Rhizobia Symbiotic System: Implications for Nutrition, *ACS Applied Nano Materials*, 2020, 3 (6), 5773-5782. (IF: 5.0973)

(10) Shuojun Li<sup>#</sup>, **Zhiyong Song<sup>#</sup>**, Caiyun Liu, Xiaolin Chen\*, Heyou Han\*. Biomimetic Mineralization-Based CRISPR/Cas9 Ribonucleoprotein Nanoparticles for Gene Editing, *ACS Applied Materials & Interfaces*, 2019, 11 (51), 47762-47770 . (IF: 9.2293)

(11) **Zhiyong Song<sup>#</sup>**, Yang Wu<sup>#</sup>, Huajuan Wang, Heyou Han\*. Synergistic antibacterial effects of curcumin modified silver nanoparticles through ROS-mediated pathways, *Materials Science and Engineering: C* , 2019, 99, 255-263. (IF: 7.3285)

(12) **Zhiyong Song**, Long Liu, Xiaoyu Wang, Yongqiang Deng, Qingong Nian, Guanchuan Wang, Shunya Zhu, Xiaofeng Li, Hangyu Zhou, Tao Jiang, Xurong Xu, Ruikang Tang\*, Chenfeng Qin\*. Intracellular delivery of biomineralized monoclonal antibodies to combat viral infection, *Chemical Communications*, 2016, 52(9): 1879-1882. (IF: 6.222)

### 学术兼职

Burns & Trauma (JCR 1 区, Top)青年编委、iMeta 青年编委、华中农业大学学报青年编委、国家自然科学基金通讯评审专家、中国化学会会员, 功能材料与器件委员会委员, 中国微米纳米技术学会高级会员, 担任 ACS Nano, Burns & Trauma 等杂志的审稿人。