

Eslam M. Hamed

Publication List

- Zinc single-atom nanozyme as carbonic anhydrase mimic for CO₂ capture and conversion. *ACS Mat Au*, 2025, ASAP. **Eslam M. Hamed**, Fun Man Fung, Sam F. Y. Li. DOI: [10.1021/acsmaterialsau.4c00156](https://doi.org/10.1021/acsmaterialsau.4c00156)
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- Aptamer-Driven Multifunctional Nanoplatfrom for Near-Infrared Fluorescence Imaging and Rapid In Situ Inactivation of Salmonella typhimurium. *Analytical Chemistry*, 2025, ASAP. Ning Ding, Bo Zhang, **Eslam M. Hamed**, Mingwei Qin, Li Ji, Shuo Qi, Sam Fong Yau Li, Zhouping Wang. DOI: [10.1021/acs.analchem.4c05949](https://doi.org/10.1021/acs.analchem.4c05949)
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- Copper Single-Atom Nanozyme Mimicking Galactose Oxidase with Superior Catalytic Activity and Selectivity. *Small*, 2024, 20, 49, 2405986. **Eslam M. Hamed**, Limo He, Varun Rai, Song Hu, Sam F. Y. Li. DOI: [10.1002/smll.202405986](https://doi.org/10.1002/smll.202405986)
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- Perovskite nanocrystals (pnCs) served as an emerging optical indicator for food safety and quality assessment: progress, challenges, and opportunities, *Coord Chem Rev*, 2024, 514. Shuo Qi, **Eslam M. Hamed**, Pengfei Ma, Wenbo Cao, Sam Fong Yau Li, Zhouping Wang. DOI: [10.1016/j.ccr.2024.215925](https://doi.org/10.1016/j.ccr.2024.215925)
- Optimizing the benefit–risk trade-off in nano-agrochemicals through explainable machine learning: beyond concentration. *Environ. Sci.: Nano*, 2024, 11, 3374. Hengjie Yu, Shiyu Tang, **Eslam M. Hamed**, Sam F. Y. Li, Yaochu Jind, Fang Cheng. DOI: [10.1039/D4EN00213J](https://doi.org/10.1039/D4EN00213J)
- Single Atom Ru Biomimetic Nanozyme for Electrochemical Sensing of Hydrogen Peroxide, *ACS app Nano Mat*, 2024. Juan Jia, Fan Yu, **Eslam M. Hamed**, Sam Li, Li Zhu, BaoYue Cao, YanYan Zhu. DOI: [10.1021/acsanm.4c01587](https://doi.org/10.1021/acsanm.4c01587)
- Ratiometric fluorescence aptasensor of allergen protein based on multivalent aptamer-encoded DNA flowers as Fluorescence Resonance Energy Transfer platform, *Analytical Chemistry*, 2024, 96. Shuo Qi, Xiaoze Dong, **Eslam M. Hamed**, Hongtao Jiang, Wenbo Cao, Sam Fong Yau Li, Zhouping Wang. DOI: [10.1021/acs.analchem.3c05894](https://doi.org/10.1021/acs.analchem.3c05894)

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- Development of a selective and sensitive colour reagent for gold and silver ions and its application to desktop scanner analysis. *RSC Advances*, 2019, 9, 36358. Ashraf A. Mohamed, **Eslam H. A. Mahmoud**, Mostafa M. H. Khalil. DOI: [10.1039/C9RA06840F](https://doi.org/10.1039/C9RA06840F)