

## Yan Guo

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### Education

2017 – 2022 Ph. D. Harbin Institute of Technology (Municipal Engineering)

2013 – 2017 B. S. Chang'an University (Water Supply & Sewerage Engineering)

### Professional Career

2022.08 – Present Postdoc, Department of Civil Engineering, The University of Hong Kong

2022.07 – 2022.08 Research Assistant, Department of Chemistry, Tsinghua University

2019.07– 2022.07 Doctoral joint training, Department of Chemistry, Tsinghua University,

### Selected Publications

1. **Yan Guo**, Qixin Zhou, Jun Nan, Wenxin Shi, Fuyi Cui, Yongfa Zhu\*. Perylenetetracarboxylic Acid Nanosheet with Internal Electric Field and Anisotropic Charge Migration for Photocatalytic Hydrogen Evolution. *Nature Communications*. 2022, 13, 2067. **(ESI Highly Cited)**
2. Qixin Zhou, **Yan Guo**\*, Yongfa Zhu\*. Photocatalytic H<sub>2</sub> Evolution Dominated by Micropore-confined Exciton Transfer in Hydrogen-Bonded Organic Framework. *Nature Catalysis*. 2023, 6, 574-584. **(ESI Highly Cited)**
3. **Yan Guo**, Bowen Zhu, Chuyang Y. Tang and Qixin Zhou, Yongfa Zhu\*. Anisotropic Charge Enrichment Induced Organic Nanocrystals Photocatalyst Electrophoretic Motion for Promoting Solid-Solid Catalysis. *Nature Communications*. 2024, 15, 428.
4. **Yan Guo**, Chuyang Y. Tang, Jun Nan\* and Qixin Zhou\*, Yongfa Zhu\*. Generation of Holes from Intra-Valence Band for Enhanced Oxidation Potentials under Visible Light. *Chem*. 2024, 10, 1252

### Research Interests

organic semiconductors, photocatalysis, energy and environmental applications

### Awards

1. RGC Postdoctoral Fellowship, Research Grants Council of Hong Kong, 2023
2. Selected as a Participant for Global Young Scientists Summit (GYSS) 2024, The University of Hong Kong, 2023
3. Invite Lecture at “The 4th International Workshop on Graphene and C<sub>3</sub>N<sub>4</sub>-Based Photocatalysts and Others”, Xi’an, 2023
4. Excerpts of Dissertation, Harbin Institute of Technology, 2022