HongJia Ma, B. Eng.

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https://hongjiama.github.io

Education

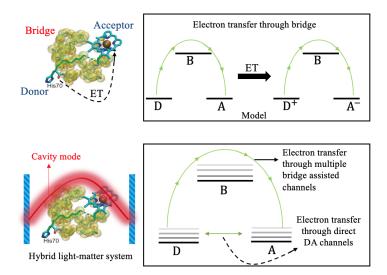
2016 – 2020

B.Eng., Hebei University of Technology in Materials Science and Engineering.

Projects

Donor-Bridge-Acceptor:

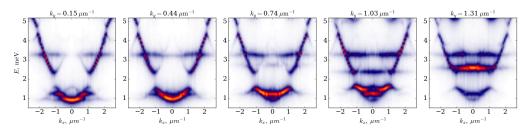
Tuning chemical reactivity by coupling molecular system to a photon field in an optical cavity. It showed that in presence of optical cavity one can create two different pathways for electron transfer:



Linear-Far-Field:

Linear regime. TE-TM splitting is neglected.

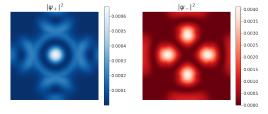
Calculation of the far-field radiation from a polariton lattice. Example for the Lieb lattice is below:



Linear-TE-TM:

Linear spectrum in presence of a TE-TM splitting.

For, example, 15th mode for the Lieb lattice at (kx, ky) = (0, 0) is presented below:



Employment History

- 2020 2022 **High School Physics Teacher,** Beijing Xueersi.
- 2022 2023 **Journal Editor,** Mechanical Industry Information Research Institute.

Miscellaneous Experience

Awards and Achievements

- **Excellent Student Leader**, Hebei University of Technology.
 - Outstanding club cadres at the school level, Hebei University of Technology.
- **Excellent Minister**, Director of the Organization Department of the Employment Guidance Center of Hebei University of Technology.
- League Branch Secretary, School of Materials Science and Engineering Youth League Branch.
- 2016 **Excellent Minister**, Director of the Literature and Art Department of the Student Union.

Certification

- 2019 **CET-6(only** 452). Awarded by Education Examination Institute of the Ministry of Education.
- NCRE. Awarded by National Education Examinations Authority.
 - **SAC**. Awarded by Securities Association.

Skills

Languages Strong reading, writing and speaking competencies for English, Mandarin Chinese.

Coding Julia, C##, Python, sQL, XML/XSL, LYEX, ...

Misc. Academic research, reading, and travelling.

Self Evaluation

I excel at rapid knowledge acquisition and possess a cheerful, agile mindset.

With youthful vitality, I approach tasks responsibly and maintain strong organizational skills.

I am sociable, diligent, unafraid of taking on challenges, and always see things through to completion.

I never shirk responsibility and have a **robust team spirit** coupled with excellent coordination abilities.