Curriculum Vitae

Tiange Deng, Graduate Assistant Department of Chemistry, Michigan State University Chemistry Building, 578 S. Shaw Lane, Room 87 East Lansing, Michigan 48824-1322, USA *Email*: dengtia4@msu.edu

Education

2021 - Present, pursuing Ph.D. in Theoretical & Computational Chemistry at Michigan State University. Advisor: Professor Piotr Piecuch.

2015 - 2019, B.S., Chemistry, Shandong University.2016 - 2019, Minor, Financial Mathematics & Engineering, Shandong University.

Research Experience

Piecuch Group, Michigan State University, 2021 – Present. Advisor: Professor Piotr Piecuch. Ongoing. Now I'm investigating literature discussing Quantum Monte Carlo (QMC) methods and strongly correlated systems.

Ma Group, Shandong University, 2018 – 2019. Advisor: Professor Yuchen Ma. I studied some band structures and surface states for some perovskites, in order to get more insights about spin-orbit coupling.

Bu Group, Shandong University, 2017 – 2018. Advisor: Professor Yuxiang Bu. I and my friends tried to construct a pair of biradical molecules with the potential to act as a magnetic molecular switch on the framework of lactam-lactim tautomerization. We conducted some mechanistic study about how the magnetic characteristic, mainly showed by coupling constant J, changed drastically from some different perspectives.

Professional Experience

Michigan State University

2021 Fall, 2022 Summer. Teaching Assistant for CEM 161, a freshmen level experimental class in general chemistry.

2022 Spring. Teaching Assistant for CEM 141, General Chemistry.

Publications

 Chen, D.; Deng, T.; Yang, L.; Bu, Y. Rational Design of Organic Magnets with Switchable Two-Way Couplers: Magnetic Modulation or Switching through Lactam– Lactim Tautomerization. J. Phys. Chem. C 2019, 123, 14152-14163.