

秦明 博士、副教授

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教育经历:

- 2012.9~2017.9: 大连理工大学理论物理专业学习, 获得理学博士学位;
- 2008.9~2012.7: 大连理工大学应用物理学专业学习, 获得理学学士学位;

工作经历:

- 2017.09~至今: 鲁东大学物理学院从事教学与科学研究;

目前研究领域:

- 量子开放系统理论与应用;
- 光合作用激发能量传输动力学;

承担研究课题

- 山东省自然科学基金培养项目: ZR2018PA012, 光合作用中的能量传输研究, 2018/03-2020/06, 5 万元, 负责人;
- 国家自然科学基金青年项目, 11805092, 环境结构和初始系统-环境关联对光合作用能量传输的效应, 2019/01-2021/12, 23 万元, 负责人;

代表性成果

代表性论文如下:

- Dynamics and quantumness of excitation energy transfer through a complex quantum network. *Physical Review E* 90,042140 (2014).
- A multi-pathway model for photosynthetic reaction center *Journal of Chemical Physics*. 144, 125103 (2016).
- Effects of system-bath coupling on Photosynthetic heat engine: A polaron master equation approach. *Physical Review A* 96,012125 (2017).
- Excitation-energy transfer from weak to strong coupling: Role of initial system-bath correlations. *Physical Review A* 99,032111 (2019).
- Excitation energy transfer with initial system-bath correlations for coherent initial conditions in a toy donor-acceptor model. *Physical Review A* 100,012134 (2019).
- Role of Spatially Correlated Fluctuations in Photosynthetic Excitation Energy Transfer with an Equilibrium and a Nonequilibrium Initial Bath. *J. Phys. Chem. B* 2021, 125, 6417-6430.