

Postdoctoral Research Fellow position in Ultrafast 2D Optical Spectroscopy

A Postdoctoral Research Fellow position is available at the Ultrafast 2D Optical Spectroscopy Lab with Dr. Howe-Siang TAN in the Division of Chemistry and Biological Chemistry, Nanyang Technological University, Singapore. Successful candidates will be involved in the application of multidimensional optical spectroscopy to study various systems, including the ultrafast excitation energy transfer processes in photosynthetic systems, and spectral diffusion dynamics of complex molecular systems.

A PhD in either Chemistry, Physics or related field, with research experience in ultrafast laser spectroscopy is required. Skills and experiences in the following are desirable: LABVIEW programming; programming in MATLAB or other similar languages

Interested individuals should apply by contacting Dr. TAN via email (howesiang@ntu.edu.sg). Applicants are requested to include their curriculum vitae with the names of at least three referees, and a list of research publications.

More information on the Howe-Siang Tan research group can be found at:

<https://www3.ntu.edu.sg/home/howesiang/new/index.htm>

Some of our works include:

1. "Two-Dimensional Electronic Spectroscopy of a Minimal Photosystem I Complex Reveals the Rate of Primary Charge Separation", J. Am. Chem. Soc. 143 (36), 14601-14612 (2021). <https://doi.org/10.1021/jacs.1c05010>
2. "Observing the Fluctuation Dynamics of Dative Bonds Using 2D Electronic Spectroscopy", J. Phys. Chem. Lett. 12, 165-170 (2021). <https://doi.org/10.1021/acs.jpcllett.0c03243>
3. "Revealing the Excitation Energy Transfer Network of Light Harvesting Complex II by Phenomenological Analysis of Two-Dimensional Electronic Spectra", J. Chem. Phys. 151, 205101 (2019). <https://doi.org/10.1063/1.5125744>
4. "Two-Dimensional Spectroscopy of Chlorophyll a Excited-State Equilibration in Light-Harvesting Complex II", J. Phys. Chem. Lett. 8, 257-263 (2017). <https://doi.org/10.1021/acs.jpcllett.6b02615>