

Stanford

Peter Dahlberg

Postdoctoral Research Fellow, Chemistry

Bio

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of Chicago (2016)
- Bachelor of Science, McGill University (2011)

STANFORD ADVISORS

- William Moerner, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Identification of PAmKate as a Red Photoactivatable Fluorescent Protein for Cryogenic Super-Resolution Imaging.** *Journal of the American Chemical Society*
Dahlberg, P. D., Sartor, A. M., Wang, J., Saurabh, S., Shapiro, L., Moerner, W. E.
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- **Excitations Partition into Two Distinct Populations in Bulk Perovskites** *ADVANCED OPTICAL MATERIALS*
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- **Mapping the ultrafast flow of harvested solar energy in living photosynthetic cells** *NATURE COMMUNICATIONS*
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- **Communication: Broad manifold of excitonic states in light-harvesting complex 1 promotes efficient unidirectional energy transfer in vivo** *JOURNAL OF CHEMICAL PHYSICS*
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- **Charge Separation Related to Photocatalytic H₂ Production from a Ru-Apoflavodoxin-Ni Biohybrid** *ACS ENERGY LETTERS*
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- **Optical Resonance Imaging: An Optical Analog to MRI with Subdiffraction-Limited Capabilities** *ACS PHOTONICS*
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- **A simple approach to spectrally resolved fluorescence and bright field microscopy over select regions of interest**
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- **Electronic Structure and Dynamics of Higher-Lying Excited States in Light Harvesting Complex 1 from Rhodobacter sphaeroides** *JOURNAL OF PHYSICAL CHEMISTRY A*
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- **Mutations to R. sphaeroides Reaction Center Perturb Energy Levels and Vibronic Coupling but Not Observed Energy Transfer Rates** *JOURNAL OF PHYSICAL CHEMISTRY A*
Flanagan, M. L., Long, P. D., Dahlberg, P. D., Rolczynski, B. S., Massey, S. C., Engel, G. S.
2016; 120 (9): 1479–87
- **Netrin-1-Regulated Distribution of UNC5B and DCC in Live Cells Revealed by TICCS** *BIOPHYSICAL JOURNAL*
Gopal, A. A., Rappaz, B., Rouger, V., Martyn, I. B., Dahlberg, P. D., Meland, R. J., Beamishd, I. V., Kennedy, T. E., Wisemant, P. W.
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- **Electronic and nuclear contributions to time-resolved optical and X-ray absorption spectra of hematite and insights into photoelectrochemical performance** *Energy & Environmental Science*
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- **Ru-protein-Co biohybrids designed for solar hydrogen production: understanding electron transfer pathways related to photocatalytic function** *CHEMICAL SCIENCE*
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- **Red, Yellow, Green, and Blue Amplified Spontaneous Emission and Lasing Using Colloidal CdSe Nanoplatelets** *ACS NANO*
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- **Communication: Coherences observed in vivo in photosynthetic bacteria using two-dimensional electronic spectroscopy** *JOURNAL OF CHEMICAL PHYSICS*
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- **Towards quantification of vibronic coupling in photosynthetic antenna complexes** *JOURNAL OF CHEMICAL PHYSICS*
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- **Aqueous light driven hydrogen production by a Ru-ferredoxin-Co biohybrid** *CHEMICAL COMMUNICATIONS*
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- **Exploring size and state dynamics in CdSe quantum dots using two-dimensional electronic spectroscopy** *JOURNAL OF CHEMICAL PHYSICS*
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2014; 5 (1): 196–204
- **Energy Transfer Observed in Live Cells Using Two-Dimensional Electronic Spectroscopy** *JOURNAL OF PHYSICAL CHEMISTRY LETTERS*
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