

BHARAT DHITAL

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Fulton, MO 65251

EDUCATION

PH.D. IN PHOTOCHEMICAL SCIENCES Aug 2012 – Dec 2016
Bowling Green State University (BGSU), Bowling Green, OH

MASTER'S DEGREE IN PHYSICAL CHEMISTRY Jan 2008 – Mar 2010
BACHELOR'S DEGREE IN CHEMISTRY Jan 2005 – Dec 2007
Tribhuvan University (TU), Kathmandu, Nepal

TEACHING EXPERIENCE

Westminster College, Fulton, MO
Assistant Professor, Department of Chemistry Aug 2018 – Present

St. Louis Community College (STLCC), St. Louis, MO
Adjunct Instructor, Department of Physical Sciences Jan 2018 – Jul 2018

Bowling Green State University, Bowling Green, OH
Teaching Assistant, Department of Chemistry Aug 2012 – Dec 2016

St. Xavier's School, Kathmandu, Nepal
Lecturer, Chemistry Aug 2010 – Jun 2012

RESEARCH EXPERIENCE

University of Washington (UW), Seattle, WA
Postdoctoral Research Associate, Department of Chemistry May 2017 – Dec 2017
Adviser: Prof. Daniel T. Chiu
Project: High-precision mapping of the spatial organization of synaptic-vesicle membrane proteins

Bowling Green State University, Bowling Green, OH
Research Assistant, Center for Photochemical Sciences Aug 2013 – Apr 2017
Project: Single-molecule electron transfer dynamics in dye-semiconductor interface

University of California-Irvine (UC-Irvine), Irvine, CA
Visiting Research Student, Department of Physics & Astronomy Oct 2014 – Nov 2014

PUBLICATIONS

7. **Bharat Dhital**, Vishal G. Rao, H. Peter Lu, Probing single-molecule electron–hole transfer dynamics at a molecule–NiO semiconductor nanocrystalline interface, *Phys. Chem. Chem. Phys.*, **2017**, *19*, 17216.
6. Arthur Yu, Shaowei Li, **Bharat Dhital**, H. Peter Lu, Wilson Ho, Tunneling Electron Induced Charging and Light Emission of Single Panhematin Molecules, *J. Phys. Chem. C*, **2016**, *120*, 21099.

5. **Bharat Dhital**, Vishal G. Rao, H. Peter Lu, Electronic Coupling–Decoupling-Dependent Single-Molecule Interfacial Electron Transfer Dynamics in Electrostatically Attached Porphyrin on TiO₂ Nanoparticles, *J. Phys. Chem. C*, **2016**, *120*, 12313.
4. Papatya Sevinc, **Bharat Dhital**, Vishal G. Rao, Yuanmin Wang, H. Peter Lu, Probing Electric Field Effect on Covalent Interactions at a Molecule–Semiconductor Interface, *J. Am. Chem. Soc.*, **2016**, *138*, 1536.
3. Vishal G. Rao, **Bharat Dhital**, H. Peter Lu, Probing Driving Force and Electron Accepting State Density Dependent Interfacial Electron Transfer Dynamics: Suppressed Fluorescence Blinking of Single-Molecules on Indium Tin Oxide Semiconductors, *J. Phys. Chem. B*, **2016**, *120*, 1685.
2. Vishal G. Rao, **Bharat Dhital**, H. Peter Lu, Single-Molecule Interfacial Electron Transfer Dynamics of Porphyrin on TiO₂ Nanoparticles: Dissecting Interfacial Electric Field and Electron Accepting State Density Dependent Dynamics, *Chem. Commun.*, **2015**, *51*, 16821.
1. Vishal G. Rao, **Bharat Dhital**, Yufan He, H. Peter Lu, Single-Molecule Interfacial Electron Transfer Dynamics of Porphyrin on TiO₂ Nanoparticles: Dissecting the Complex Electronic Coupling Dependent Dynamics, *J. Phys. Chem. C*, **2014**, *118*, 20209.

PROFESSIONAL DEVELOPMENT

8. **24th Annual Green Chemistry & Engineering Virtual Conference**, June 15-19, 2020
7. **ACS Midwest Regional Meeting**, Wichita, KS, October 18, 2019, “Effects of covalent and non-covalent interactions at a molecule–semiconductor interface”
6. **Invited Seminar**, Bowling Green State University, **Center for Photochemical Sciences**, Bowling Green, Ohio, November 16, 2016, “Inhomogeneous and Complex Interfacial Charge Transfer Dynamics: a Single-Molecule Perspective”
5. **Ohio-Region Section of the APS (OSAPS) Fall 2016 Meeting**, Bowling Green, OH, October 7, 2016, “Electronic Coupling–Decoupling-Dependent Single-Molecule Interfacial Electron Transfer Dynamics in Electrostatically Attached Porphyrin on TiO₂ Nanoparticles”
4. **Dynamics Interactions and Electronic Transitions at Surfaces (DIET) Workshop**, Pacific Grove, CA, October 14, 2014, “Single-Molecule Interfacial Electron Transfer Dynamics at Dye-Sensitized TiO₂ Nanoparticles”
3. **BGSU Center for Photochemical Sciences Advisory Board Meeting Research Retreat**, Bowling Green, OH, October 11, 2014, “Single-Molecule Interfacial Electron Transfer Dynamics at Dye-Sensitized TiO₂ Nanoparticles”
2. **Ohio Photochemical Society (OoPS) Meeting**, Oregon, OH, May 15, 2014, “Single-Molecule Interfacial Electron Transfer Dynamics at Dye-Sensitized TiO₂ Nanoparticle”
1. **BGSU Center for Photochemical Sciences Advisory Board Meeting Research Retreat**, Bowling Green, OH, October 11, 2013, “Single-Molecule Interfacial Electron Transfer Dynamics at Dye-Sensitized TiO₂ Nanoparticles”