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### **Major Professional Interest**

Nonlinear Optical Spectroscopy, Surfaces and Interfaces, Organic and Inorganic Materials.

### **Education**

1999-2001 Postdoctoral Studies, MIT, with Mario Molina  
1998 Ph.D. Chemistry, Georgetown University, with Janice M. Hicks  
1994 B.S. Equivalent Chemistry, Technische Universität Berlin, Germany

### **Employment**

2011 – present Professor, Northwestern University  
2006-2011 Associate Professor, Northwestern University  
2001-2006 Assistant Professor, Northwestern University  
1999-2001 NOAA Postdoctoral Fellow in Climate and Global Change, MIT  
1996-1998 NASA Predoctoral Fellow in Earth System Sciences, Georgetown

### **Awards, Honors, and Fellowships**

2021 – present Charles E. and Emma H. Morrison Professor of Chemistry  
2021 ACS Nobel Laureate Signature Award (Preceptor) with Dr. Paul Ohno  
2021 Northwestern University Ver Steeg Faculty Award (runner up)  
2020 – 23 Appointed Member, ACS National Awards Canvassing Committee  
2019 – 22 Appointed, Editorial Advisory Board, Cell Reports Physical Science  
2018 – 24 Appointed, National Academy of Sciences Chemical Science Roundtable  
2018 – 19 Change Maker, Northwestern University Women's Center  
2018– 22 Appointed, Editorial Advisory Board, Chem  
2017 Friedrich Wilhelm Bessel Prize of the Alexander von Humboldt (AvH) Foundation  
2017 – 20 Appointed Chair, ACS National Awards Committee  
2016 Elected Fellow, Royal Society of Chemistry (FRSC)  
2016 Northwestern University Graduate School Faculty Diversity Award  
2015 – 17 Appointed, ACS National Awards Committee  
2014 Elected Member at Large, ACS Division of Physical Chemistry  
2014 Appointed, Senior Editor, The Journal of Physical Chemistry  
2012 Elected Fellow, American Association for the Advancement of Science (AAAS)  
2012 Baker Lecturer, Cornell University, Ithaca, NY  
2010 – 2012 Irving M. Klotz Professorship  
2010 Appointed, Board of the Telluride Science Research Center  
2011 Appointed, Editorial Advisory Board, Chemical Physics Letters  
2010 Appointed, Editorial Advisory Board, Surface Science  
2009 SAS Tour Speaker for the Society for Applied Spectroscopy  
2007 Appointed, Editorial Advisory Board, The Journal of Physical Chemistry  
2007 Fellow, Alfred P. Sloan Foundation

2007	ACS Division of Environmental Chemistry Certificate of Merit
2007	PLU Lecture, Texas A&M University
2006 – 2008	Dow Chemical Company Professorship
2006	"Interdisciplinary Problems in Chemistry and Physics" Lecturer, U of Maryland
2006	Ralph Grim Mineralogy Lecturer, U of Illinois, Urbana-Champaign (2006)
2005	Appointed, Editorial Board, <i>Geochemical Transactions</i> (2005-present)
2005	Distinguished Teaching Award, NU Undergraduate Chemistry Council
2004	Camille and Henry Dreyfus Foundation Postdoctoral Research Fellowship Award in Environmental Chemistry
2004	Searle Teaching Scholar
2004 – 2009	NSF-CAREER Award
2001	Harold N. Glassman Award, Top PhD Thesis at Georgetown University's Graduate School
1999 – 2001	Fellow, NOAA Postdoctoral Program in Climate and Global Change, with Mario Molina
1996 – 1998	Fellow, NASA Earth System Sciences Program, with Janice Hicks

### Service and Outreach

- Editorial and Board Service:** Appointed as Senior Editor at *The Journal of Physical Chemistry* (Dec 2014-present); Member, Editorial Advisory Board of *The Journal of Physical Chemistry* (2007-13), *Surface Science* (2010-16), *Chemical Physics Letters* (2012-16), *Geochemical Transactions* (2005-10); Member, Telluride Science Research Center Board (2010-present); Appointed Member, Chemical Sciences Roundtable of the National Academies of Sciences, Engineering, & Medicine (2018-21); Appointed Member (2016-17) and Chair, ACS National Awards Committee (2017-18).
- Conferences Organized:** *Nonlinear Optics at Interfaces* Telluride Science Research Conferences Workshop in Telluride, CO, co-Organizer 2008-2020; Co-Organizer, with Christy Landes, of the symposium "*Understanding the Complexity of the Nano-Bio Interface*" at the ACS National Meeting in New Orleans (2018); co-organizer of other eight ACS symposia since 2004; *Gordon Research Conference on Vibrational Spectroscopy*, co-Chair, 2012; *Gordon Research Conference on Vibrational Spectroscopy*, Vice co-Chair, 2010.
- Ethics and Scientific Editing Boot camps:** Developed two hour-long graduate/post-graduate lecture modules for NU's RCR course on the topics "*On Being an ACS Editor*" and "*On Hypothesis Building and the Scientific Method*", since 2016.
- Communicating Science to the General Public:** Pinhead Institute Town talk, Telluride, CO, on "Science and the Presidential Election", please see <http://www.tellurideinside.com/2016/06/tsrc-town-talks-science-tax-dollars.html> for a synopsis of the most recent one. Since 2003: Navajo Drinking Water Quality Project focusing on the Red Valley Community, AZ, on the Navajo Nation, featured in Judy Pasternak's book "Yellow Dirt: An American Story of a Poisoned Land and a People Betrayed" (*Free Press*, 2010), please see <http://navajowater.org>. Also developed the environmental remediation teaching and outreach project for the Village of DePue, IL, please see <http://cleanupdepue.org> and <https://www.youtube.com/watch?v=X3oZFWDQbkk>.