

Christopher G. Elles

Department of Chemistry
University of Kansas
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RESEARCH INTERESTS

Condensed-phase chemical reaction dynamics; Excited-state dynamics of photochromic molecular switches, photo-triggers, and photoactive materials; Ultrafast laser spectroscopy; Time-resolved x-ray absorption spectroscopy

PROFESSIONAL EXPERIENCE

University of Kansas

Professor, Department of Chemistry, *2022-present*

Associate Professor, Department of Chemistry, *2016-2022*

Assistant Professor, Department of Chemistry, *2009-2016*

National Science Foundation

Program Director, Division of Chemistry, *2020-2022*

University of Rome "La Sapienza"

Visiting Professor, Department of Physics, *Summer 2012*

EDUCATION

Postdoc, University of Southern California and Argonne National Laboratory (jointly), *2004-2009*

Research Project: *Reaction mechanisms in the ionization of liquid water*

Advisors: Stephen E. Bradforth (USC) and Robert A. Crowell (ANL)

Ph.D., Chemistry, University of Wisconsin–Madison, *July 2004*

Dissertation: *Vibrational relaxation and photodissociation dynamics in solution*

Advisor: F. Fleming Crim

B.S., Chemistry, Colorado State University, *May 1999*

Research Project: *Characterization of non-aqueous and mixed-solute reverse micelles*

Advisor: Nancy E. Levinger

SELECTED AWARDS AND HONORS

Editorial Advisory Board, *Journal of Physical Chemistry Letters*, *2023-2025*

Finalist, Honor for an Outstanding Progressive Educator (H.O.P.E.) Award, Univ. of Kansas, *2016*

J. Michael Young Academic Advisor Award, University of Kansas, *2016*

National Science Foundation CAREER Award, *2012-2017*

University of Rome Visiting Professorship, *2012*

Kansas NSF EPSCoR First Award, *2011*

Arthur Adamson Postdoctoral Research Award, University of Southern California, *2009*

Excellence in Physical Chemistry Research Award, University of Wisconsin, *2004*

Chemistry Undergraduate Research Award, Colorado State University, *1999*

Sigma Xi Grant-in-Aid of Research, *1998*

AFFILIATIONS

American Association for the Advancement of Science, *2004-present*

American Chemical Society, *1998-present*

Inter-American Photochemical Society, *2017-present*

Sigma Xi Scientific Research Society, *2020*

PUBLICATIONS

46. P. Srivastava and C. G. Elles, *A Single-Shot Technique for Measuring Broadband Two-Photon Absorption Spectra in Solution*, (submitted).
Preprint at: <https://doi.org/10.26434/chemrxiv-2024-lw7r2>
45. P. Srivastava, D. A. Stierwalt, and C. G. Elles, *Broadband two-photon absorption spectroscopy with stimulated Raman scattering as an internal standard*, *Analytical Chemistry*, **95**, 13227 (2023).
44. R. Chen, K. Qiu, D. C. Y. Leong, B. K. Kundu, C. Zhang, P. Srivastava, K. E. White, G. Li, G. Han, Z. Guo, C. G. Elles, J. Diao, and Y. Sun, *A general design of pyridinium-based fluorescent probes for enhancing two-photon microscopy*, *Biosensors and Bioelectronics*, **239**, 115604 (2023).
43. B. K. Kundu, C. Han, P. Srivastava, S. Nagar, K. E. White, J. A. Krause, C. G. Elles, and Y. Sun, *Trifluoromethylative bifunctionalization of alkenes via a bibenzothiazole-derived photocatalyst under both visible- and near-infrared-light irradiation*, *ACS Catalysis*, **13**, 8119 (2023).
42. K. H. Burns, T. J. Quincy, and C. G. Elles, *Excited-state resonance Raman spectroscopy probes the sequential two-photon excitation mechanism of a photochromic molecular switch*, *Journal of Chemical Physics*, **157**, 234302 (2022).
41. M. Singh, P. Dhote, D. R. Johnson, S. Figueroa-Lazu, C. G. Elles, and Z. Boskovic, *Photochemical decarbonylation of oxetanone and azetidinone: Spectroscopy, computational models, and synthetic applications*, *Angewandte Chemie, Int. Ed.*, **62**, e202215856 (2023).
40. K. H. Burns and C. G. Elles, *Ultrafast dynamics of a molecular switch from resonance Raman spectroscopy: Visible and UV excitation*, *Journal of Physical Chemistry A*, **126**, 5932 (2022).
39. V. Ramamurthy, P. Sen, and C. G. Elles, *Ultrafast excited state dynamics of spatially confined organic molecules*, *Journal of Physical Chemistry A*, **126**, 4681 (2022).
38. M. Singh, B. Gaskins, D. R. Johnson, C. G. Elles, and Z. Boskovic, *Synthesis of cycloheptatriene-containing azetidine lactones*, *Journal of Organic Chemistry*, **87**, 15001 (2022).
37. D. Bhattacharyya, Y. Zhang, C. G. Elles, and S. E. Bradforth, *Electronic structure of liquid alkanes: A representative case of liquid hexanes and cyclohexane studied using polarization-dependent two-photon absorption spectroscopy*, *Journal of Physical Chemistry A*, **125**, 7988 (2021).
36. C. J. Otolski, A. Mohan Raj, V. Ramamurthy, and C. G. Elles, *Spatial confinement alters the ultrafast photoisomerization dynamics of azobenzenes*, *Chemical Science*, **11**, 9513 (2020).
35. K. H. Burns, P. Srivastava, and C. G. Elles, *Absolute cross sections of liquids from broadband simulated Raman scattering with femtosecond and picosecond pulses*, *Analytical Chemistry*, **92**, 10686 (2020).
34. M. S. Barclay, C. G. Elles, and M. Caricato, *On the discrepancy between experimental and calculated Raman intensities for conjugated phenyl and thiophene derivatives*, *Journal of Physical Chemistry A*, **124**, 4678 (2020).
33. W. C. Henke, C. J. Otolski, W. N. G. Moore, C. G. Elles, and J. D. Blakemore, *Ultrafast spectroscopy of $[Mn(CO)_3]$ complexes: Tuning the kinetics of light-driven CO release and solvent binding*, *Inorganic Chemistry*, **59**, 2178 (2020).
32. M. S. Barclay, C. G. Elles, and M. Caricato, *Benchmark study of ground-state Raman spectra in conjugated molecules*, *Journal of Chemical Theory and Computation*, **16**, 612 (2020).
31. S. Mahvidi, C. G. Elles, B. S. Hadavand, Y. Yokoyama, F. Nourmohammadian, *Influence of protonation on the photochromic behavior, phase transfer and thermal stability of phenyl-amine-substituted diarylethenes*, *Progress in Color, Colorants and Coatings*, **13**, 105 (2020).
30. M. S. Barclay, M. Caricato, and C. G. Elles, *Femtosecond stimulated Raman scattering from triplet electronic states: Experimental and theoretical study of resonance enhancements*, *Journal of Physical Chemistry A*, **123**, 7720 (2019).
29. D. Bhattacharyya, Y. Zhang, C. G. Elles, and S. E. Bradforth, *Electronic structure of liquid methanol and ethanol from polarization-dependent two-photon absorption spectroscopy*, *Journal of Physical Chemistry A*, **123**, 5789 (2019).

28. C. J. Otolski, A. Mohan Raj, G. Sharma, R. Prabhakar, V. Ramamurthy, and C. G. Elles, *Ultrafast trans→cis photoisomerization dynamics of alkyl-substituted stilbenes in a supramolecular capsule*, *Journal of Physical Chemistry A*, **123**, 5061 (2019).
27. C. J. Otolski, A. Mohan Raj, V. Ramamurthy, and C. G. Elles, *Ultrafast dynamics of encapsulated molecules reveals new insight on the photoisomerization mechanism for azobenzenes*, *Journal of Physical Chemistry Letters*, **10**, 121 (2019).
26. T. J. Quincy, M. S. Barclay, M. Caricato, and C. G. Elles, *Probing dynamics in higher-lying electronic states with resonance-enhanced femtosecond stimulated Raman spectroscopy*, *Journal of Physical Chemistry A*, **122**, 8308 (2018).
25. M. S. Barclay, T. J. Quincy, D. B. Williams-Young, M. Caricato, and C. G. Elles, *Accurate assignments of excited-state resonance Raman spectra: A benchmark study combining experiment and theory*, *Journal of Physical Chemistry A*, **121**, 7937 (2017).
24. M. de Wergifosse, C. G. Elles, and A. I. Krylov, *Two-photon absorption spectroscopy of stilbene and phenanthrene: Excited-state analysis and comparison with ethylene and toluene*, *Journal of Chemical Physics*, **146**, 174102 (2017).
23. M. de Wergifosse, A. L. Houk, A. I. Krylov, and C. G. Elles, *Two-photon absorption spectroscopy of trans-stilbene, cis-stilbene, and phenanthrene: Theory and experiment*, *Journal of Chemical Physics*, **146**, 144305 (2017).
22. G. Batignani, E. Pontecorvo, C. Ferrante, M. Aschi, C. G. Elles, and T. Scopigno, *Visualizing excited-state dynamics of a diaryl thiophene: Femtosecond stimulated Raman scattering as a probe of conjugated molecules*, *Journal of Physical Chemistry Letters*, **7**, 2981 (2016).
21. A. L. Houk, R. S. Givens, and C. G. Elles, *Two-photon activation of p-hydroxyphenacyl phototrigger: Toward spatially controlled release of diethyl phosphate and ATP*, *Journal of Physical Chemistry B*, **120**, 3178 (2016).
20. A. L. Houk, I. L. Zheldakov, T. A. Tommey, and C. G. Elles, *Two-photon excitation of trans-stilbene: Spectroscopy and dynamics of electronically excited states above S₁*, *Journal of Physical Chemistry B*, **119**, 9335 (2015).
19. B. Langdon, J. Garlick, X. Ren, D. J. Wilson, A. M. Summers, S. Zigo, M. F. Kling, S. Lei, C. G. Elles, E. Wells, E. D. Poliakoff, K. D. Carnes, V. Kumarappan, I. Ben-Itzhak, and C. A. Trallero-Herrero, *A carrier-envelope-phase stabilized terawatt class laser at 1 kHz with a wavelength tunable option*, *Optics Express*, **23**, 4563 (2015).
18. C. L. Ward and C. G. Elles, *Cycloreversion dynamics of a photochromic molecular switch via one-photon and sequential two-photon excitation*, *Journal of Physical Chemistry A*, **118**, 10011 (2014).
17. E. Pontecorvo, C. Ferrante, C. G. Elles, and T. Scopigno, *Structural rearrangement accompanying the ultrafast electrocyclization reaction of a photochromic molecular switch*, *Journal of Physical Chemistry B*, **118**, 6915 (2014).
16. I. L. Zheldakov, O. Grinevich, A. Mejiritski, C. G. Elles, and D. C. Neckers, *Transient spectroscopy of 5,7-diiodo-3-butoxy-6-fluorone (DIBF)*, *Photochemistry and Photobiology*, **90**, 335 (2014).
15. L. Sarkany, J. M. Wasylenko, S. Roy, D. A. Higgins, C. G. Elles, and V. Chikan, *Investigation of fluorescence emission from CdSe nanorods in PMMA and P3HT/PMMA films*, *Journal of Physical Chemistry C*, **117**, 18818 (2013).
14. E. Pontecorvo, C. Ferrante, C. G. Elles, and T. Scopigno, *Optimally shaped narrowband pulses for femtosecond stimulated Raman spectroscopy in the range 330-750 nm*, *Optics Express*, **21**, 6866 (2013).
13. C. L. Ward and C. G. Elles, *Controlling the excited-state reaction dynamics of a photochromic molecular switch with sequential two-photon excitation*, *Journal of Physical Chemistry Letters*, **3**, 2995 (2012).
12. I. L. Zheldakov, J. M. Wasylenko, and C. G. Elles, *Excited-state dynamics and efficient triplet formation in phenylthiophene compounds*, *Physical Chemistry Chemical Physics*, **14**, 6211 (2012).

Prior to joining KU:

11. O. Marsálek, C. G. Elles, P. A. Pieniazek, Eva Pluhařová, J. Vande Vondele, S. E. Bradforth, and P. Jungwirth, *Chasing charge localization and chemical reactivity following photoionization in liquid water*, Journal of Chemical Physics, **135**, 224510 (2011).
10. C. G. Elles, C. A. Rivera, Y. Zhang, P. A. Pieniazek, and S. E. Bradforth, *Electronic structure of liquid water from polarization-dependent two-photon absorption spectroscopy*, Journal of Chemical Physics, **130**, 084501 (2009).
9. C. G. Elles, I. A. Shkrob, R. A. Crowell, D. A. Arms, and E. C. Landahl, *Transient x-ray absorption spectroscopy of hydrated halogen atom*, Journal of Chemical Physics, **128**, 061102 (2008).
8. C. G. Elles, I. A. Shkrob, R. A. Crowell, and S. E. Bradforth, *Excited state dynamics of liquid water: Insight from the dissociation reaction following two-photon excitation*, Journal of Chemical Physics, **126**, 164503 (2007).
7. C. G. Elles, A. E. Jailaubekov, R. A. Crowell, and S. E. Bradforth, *Excitation-energy dependence of the mechanism for two-photon ionization of liquid H₂O and D₂O from 8.3 to 12.4 eV*, Journal of Chemical Physics, **125**, 044515 (2006).
6. C. G. Elles and F. F. Crim, *Connecting chemical dynamics in gases and liquids*, Annual Review of Physical Chemistry, **57**, 273 (2006).
5. L. Sheps, A. C. Crowther, C. G. Elles, and F. F. Crim, *Recombination dynamics and hydrogen abstraction reactions of chlorine radicals in solution*, Journal of Physical Chemistry A, **109**, 4296 (2005).
4. C. G. Elles, M. J. Cox, G. L. Barnes, and F. F. Crim, *Recombination and reaction dynamics following photodissociation of CH₃OCl in solution*, Journal of Physical Chemistry A, **108**, 10973 (2004).
3. C. G. Elles, M. J. Cox, and F. F. Crim, *Vibrational relaxation of CH₃I in the gas phase and in solution*, Journal of Chemical Physics, **120**, 6973 (2004).
2. C. G. Elles, D. Bingemann, M. M. Heckscher, and F. F. Crim, *Vibrational relaxation of CH₂I₂ in solution: Excitation level dependence*, Journal of Chemical Physics, **118**, 5587 (2003).
1. C. G. Elles and N. E. Levinger, *Reverse micelles solubilizing DMSO and DMSO/water mixtures*, Chemical Physics Letters, **317**, 624 (2000).

RECENT AND FORTHCOMING PRESENTATIONS

- National Meeting of the American Chemical Society*, Denver, CO (August 2024)
- International Conference on Raman Spectroscopy (ICORS)*, Rome, Italy (July 2024)
- Spectroscopy and Dynamics on Multiple Potential Energy Surfaces*, Telluride, CO (July 2024)
- Department of Chemistry, University of Texas-Dallas, Dallas, TX (December 2023)
- Department of Chemistry, Benedictine College, Atchison, KS (November 2023)
- Department of Chemistry, University of Nebraska-Kearney, Kearney, NE (October 2023)
- National Meeting of the American Chemical Society*, San Francisco, CA (August 2023)
- Chemistry and Dynamics in Complex Environments*, Telluride, CO (June 2023)
- 21st Intl. Conference on Time-Resolved Vibrational Spectroscopy (TRVS)*, Amsterdam, NL (June 2023)
- Department of Chemistry, University of Michigan, Ann Arbor, MI (February 2023)
- Inter-American Photochemical Society (I-APS) Winter Meeting*, Miramar Beach, FL (January 2023)
- International Conference on Raman Spectroscopy (ICORS)*, Long Beach, CA (August 2022)
- Intl. Chemical Congress of Pacific Basin Societies (Pacifichem)*, Honolulu, HI (December 2021)
- Chemistry and Dynamics in Complex Environments*, Telluride, CO (June 2021)
- 20th Intl. Conference on Time-Resolved Vibrational Spectroscopy (TRVS)*, Online (June 2021)

FUNDING

Broadband two-photon absorption spectroscopy for in situ measurement and characterization of heterogeneous samples. National Science Foundation, \$507,760 (PI), 2024-2027

Ultrafast dynamics of highly excited molecules in the condensed phase. National Science Foundation, \$485,331 (PI), 2020-2024

Broadband two-photon absorption spectroscopy for high-repetition rate lasers. National Science Foundation, \$397,788 (PI), 2019-2024

Designer chromophores for therapeutic carbon monoxide release via two-photon photochemistry. Hall Research Fund (KU), \$38,000 (co-PI), 2018-2019

Fast processes in optogenetic systems: Experiments and modeling. National Institutes of Health Center of Biomedical Research Excellence in Protein Structure and Function (COBRE-PSF), Pilot Grant (co-investigator), \$20,000, 2017-2018

Collaborative research: Imaging and controlling ultrafast dynamics of atoms, molecules, and nanostructures. National Science Foundation, RII Track 2, \$156,059 sub-award, 2014-2017

Ultrafast dynamics of organic and molecular electronics components. American Chemical Society Petroleum Research Fund, \$100,000 (PI), 2013-2016

Controlling non-adiabatic reaction dynamics in solution: A window on the fundamental details of chemical reactions. National Science Foundation CAREER Award, \$650,000 (PI), 2012-2017

Controlling non-adiabatic dynamics in solution: One- and two-photon excitation of photochromic molecular switches. Kansas NSF EPSCoR First Award, \$71,264 (PI), 2011-2012

OTHER RESEARCH SUPPORT

Probing the Role of the Ligand in the Photochemistry of Manganese Tricarbonyl Complexes. Linac Coherent Light Source (LCLS), (Roseanne Sension, PI), *under review*

Visualizing the Optical Control of Chemical Dynamics. Linac Coherent Light Source (LCLS), (Roseanne Sension, PI) 5 shifts (60 hours) beamtime, *August 2022*

TR-XAS study of structural changes in the photodecomposition of Mn CO₂ reduction catalysts. Advanced Photon Source (APS), (PI), 15 shifts (120 hours) beamtime, *Dec. 2019*

Time-resolved XAS study of the photo-degradation mechanism for manganese CO₂ reduction catalysts. Advanced Photon Source (APS), (PI), 18 shifts (144 hours) beamtime, *June 2018*

RESEARCH MENTORING

Current Group Members:

Dr. Emmaline R. Lorenzo	postdoctoral associate
Daniel R. Johnson	7 th year Ph.D.
Katie E. White	2 nd year Ph.D.
Chase Courbot	undergraduate
Birendra (Bren) Karki	summer REU student (Maryville Univ., MO)

Visiting Scholars and Students:

Jamie Somers, Undergraduate Student, Dublin City University (*summer 2022*)
 Prof. Jordan Mantha, Associate Professor, Mid-America Nazarene University (*2016-18*)
 Sadegh Mahvidi, Graduate Student, Institute for Color Science, Tehran, Iran (*2016-17*)

Former Graduate and Postdoctoral Students:

Prasenjit Srivastava (Ph.D., <i>August 2023</i>)	Postdoc, Brown University
Kristen H. Burns (Ph.D., <i>August 2022</i>)	Faculty Specialist (tenure track), Western Michigan
Matthew S. Barclay (Ph.D., <i>December 2019</i>)	Research Scholar, Boise State University
David A. Stierwalt (M.S., <i>August 2019</i>)	Seattle, WA
Christopher J. Otolski (Ph.D., <i>May 2019</i>)	Senior Scientist, DOD Technologies
Timothy J. Quincy (Ph.D., <i>August 2018</i>)	Instructor, Lawrence University

Amanda L. (Staker) Houk (Ph.D., Oct. 2015)	Manager, Savannah River Nuclear Solutions
Jenna M. (Wasylenko) Lindsey	Teacher, Lee's Summit High School (MO)
Cassandra L. Ward (Ph.D., May 2014)	Senior Research Scientist, Wayne State Univ.
Dr. Igor L. Zheldakov (postdoc, 2010-13)	Principal Scientist, Eastman Chemical Company

Former KU Undergraduates (and last known position):

Anna Jasko (B.S., Chemical Engineering, May 2023)	
Jessica E. Bair (B.S., Chemistry, May 2022)	Grad Student, Chalmers U. (Sweden)
Robert A. Castaneda (B.A., Chemistry, May 2022)	Grad Student, Univ. North Carolina
Emmaline R. Lorenzo (B.S., Chemistry/Honors, May 2018)	Ph.D., Northwestern Univ.
Whitney M. Harmon (B.S., Chemistry, May 2018)	Ph.D., University of Iowa
Brooks Hidaka (B.S., Chemistry, May 2018)	Roseville Area HS (MN)
Jung Moon Suh (B.S., Chemistry, May 2018)	Regina Mundi College (Canada)
Nicholas Jackson (B.S., Chemistry, May 2017)	Scientist, Eurofins Viracor
Jorge L. Perez (UKanTeach; McNair Scholar)	Gardner, KS
Thomas Hurley (B.S., Chemical Engineering, May 2016)	Peace Corps (Cameroon)
Victoria L. Gunderson (B.A., Chemistry, May 2016)	Assistant Brewer, Lawrence, KS
Johnathon R. Bliss (B.S., Chemistry, May 2015)	DataMap, Kansas City, MO
Graham Oltjen (B.S., Chemistry, May 2014)	Agilent Technologies
William L. Cleek (B.S., Chemistry, May 2013)	M.D., Emergency Med., Seattle, WA
Heidi J. LeSage (B.S., Chemistry, May 2011)	Pearson Education, Portland, OR
Alyssa Auld (B.S., Chemistry Education, May 2010)	Teacher, Mill Valley HS (KS)

Summer NSF-REU Students:

Julia Goeks (2022)	M.S., University of Illinois (2023)
Ryan Hamelin (2015)	Research Scientist, Cavu Group
Darien J. Morrow (2014)	Ph.D., Univ. of Wisconsin (2020)
Samantha L. Allen (2013)	Ph.D., Univ. of Colorado (2020)
Tyler A. Tommey (2011)	Ph.D., Univ. of Akron (2020)
Joseph M. Varberg (2010)	Ph.D., IUPUI (2017)

COURSES TAUGHT

CHEM 110 Introductory Chemistry
 CHEM 180 Chemistry Seminar I
 CHEM 511 Biological Physical Chemistry Laboratory
 CHEM 525 Physical Chemistry for Engineers
 CHEM 530 Physical Chemistry I
 CHEM 535 Physical Chemistry II
 CHEM 537 Physical Chemistry Laboratory
 CHEM 695 Chemistry Seminar II
 CHEM 700 Responsible Scholarship in the Chemical Sciences
 CHEM 750 Introduction to Quantum Mechanics
 CHEM 854 Chemical Kinetics and Dynamics
 CHEM 856 Molecular Spectroscopy

PROFESSIONAL SERVICE

University of Kansas:

Faculty Senate Research Committee, 2019-20
 Ad Hoc Committee on Student Evaluation of Teaching, 2018-19
 Faculty Senate & University Senate (elected), 2015-18
 Undergraduate STEM Education Committee, 2013

College of Liberal Arts & Sciences:

Physical Sciences General Research Fund Review Committee, 2023

Joint Committee on STEM Teacher Preparation (with School of Ed.), 2020
Committee on Undergraduate Studies and Advising (CUSA; elected), 2017-20
College Faculty Mentor Advisory Committee, 2018-20
College Faculty Mentor Program (for at-risk undergraduates), 2016-20
Committee on Graduate Studies (CGS), 2012-13, 2015

Department of Chemistry:

Graduate Recruiting Committee (chair 2023-present), 2009-10, 2016-18, 2023-present
Faculty Performance Review Committee (elected), 2016-19, 2023-present
Graduate Affairs Committee, 2022-23
Graduate Admissions Committee (chair 2012-14), 2010-15, 2018-19, 2022-23
Inaugural Faculty Mentor, Chemistry Graduate Student Organization (ChemGSO), 2017-20
Graduate Recruiting Weekend Committee (chair), 2019-20
Ad Hoc Integrated Science Building Atrium Art Committee (chair), 2017-18
Chemistry REU Program Committee, 2015-16
Chair Advisory Committee, 2010-11, 2015-16
Physical Chemistry Faculty Search Committee, 2013
Department Chair Search Committee, 2013
Search Committee for Graduate Programs Assistant, 2012, 2014
Search Committee for Director of Instrumentation Teaching Laboratories, 2011
Physics Machine Shop Committee, 2011

International/National/Local:

Treasurer, Wakarusa Valley Chapter of the American Chemical Society (2023-present)
Editorial Advisory Board, Journal of Physical Chemistry Letters, 2023-2025
Program Committee, International Conference on Raman Spectroscopy (ICORS), 2023-2024

Proposal Reviews:

Department of Energy, National Science Foundation, Petroleum Research Fund, European Research Council, Ohio University Research Council, Czech Science Foundation (GACR), French National Research Agency (ANR), German Research Foundation (DFG), CRDF Global

Journal Reviews:

Accounts of Chemical Research, ACS Applied Materials and Interfaces, Advanced Materials, Analytical Chemistry, Applied Physics B, Applied Physics Letters, Applied Sciences, Chemical Physics, Chemical Physics Letters, Chemical Science, Chemistry- A European Journal, ChemPhotoChem, ChemPhysChem, Colloids and Surfaces, Communications Chemistry, Inorganic Chemistry, Journal of the American Chemical Society, Journal of Chemical Physics, Journal of Computational Chemistry, Journal of Molecular Structure, Journal of Physical Chemistry A/B/C, Journal of Physical Chemistry Letters, Nature, Nature Chemistry, Nature Communications, Optical Materials, Optics Letters, Photochemical and Photobiological Sciences, Photochemistry and Photobiology, Physical Chemistry Chemical Physics (PCCP), Science, Science Advances

– June 12, 2024