

Michael Minitti

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

3,397
citations

159585

30
h-index

138484

58
g-index

62
all docs

62
docs citations

62
times ranked

4369
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Nonlinear lattice dynamics as a basis for enhanced superconductivity in YBa ₂ Cu ₃ O _{6.5} . <i>Nature</i> , 2014, 516, 71-73. | 27.8 | 391 |
| 2 | Direct current slice imaging. <i>Review of Scientific Instruments</i> , 2003, 74, 2530-2539. | 1.3 | 366 |
| 3 | Large-Amplitude Spin Dynamics Driven by a THz Pulse in Resonance with an Electromagnon. <i>Science</i> , 2014, 343, 1333-1336. | 12.6 | 255 |
| 4 | Imaging Molecular Motion: Femtosecond X-Ray Scattering of an Electrocyclic Chemical Reaction. <i>Physical Review Letters</i> , 2015, 114, 255501. | 7.8 | 254 |
| 5 | Probing the transition state region in catalytic CO oxidation on Ru. <i>Science</i> , 2015, 347, 978-982. | 12.6 | 193 |
| 6 | The photochemical ring-opening of 1,3-cyclohexadiene imaged by ultrafast electron diffraction. <i>Nature Chemistry</i> , 2019, 11, 504-509. | 13.6 | 157 |
| 7 | Observation of the fastest chemical processes in the radiolysis of water. <i>Science</i> , 2020, 367, 179-182. | 12.6 | 149 |
| 8 | Self-Referenced Coherent Diffraction X-Ray Movie of Ångstrom- and Femtosecond-Scale Atomic Motion. <i>Physical Review Letters</i> , 2016, 117, 153003. | 7.8 | 114 |
| 9 | Spatially resolved ultrafast magnetic dynamics initiated at a complex oxide heterointerface. <i>Nature Materials</i> , 2015, 14, 883-888. | 27.5 | 109 |
| 10 | Melting of Charge Stripes in Vibrationally Driven $\text{La}_{1-x}\text{Sr}_x\text{CuO}_2$. Assessing the Respective Roles of Electronic and Lattice Dynamics. <i>Physical Review Letters</i> , 2014, 112, 157002. | 7.8 | 82 |
| 11 | Atomic-Scale Perspective of Ultrafast Charge Transfer at a Dye-Semiconductor Interface. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2753-2759. | 4.6 | 79 |
| 12 | Ultrafast X-ray scattering reveals vibrational coherence following Rydberg excitation. <i>Nature Chemistry</i> , 2019, 11, 716-721. | 13.6 | 73 |
| 13 | L-Edge X-ray Absorption Spectroscopy of Dilute Systems Relevant to Metalloproteins Using an X-ray Free-Electron Laser. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3641-3647. | 4.6 | 64 |
| 14 | The Atomic, Molecular and Optical Science instrument at the Linac Coherent Light Source. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 492-497. | 2.4 | 61 |
| 15 | Observation of femtosecond molecular dynamics via pump-probe gas phase x-ray scattering. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 034001. | 1.5 | 53 |
| 16 | Energy Flow and Fragmentation Dynamics of N,N-Dimethylisopropylamine. <i>Journal of Physical Chemistry A</i> , 2006, 110, 4251-4255. | 2.5 | 51 |
| 17 | Toward structural femtosecond chemical dynamics: imaging chemistry in space and time. <i>Faraday Discussions</i> , 2014, 171, 81-91. | 3.2 | 48 |
| 18 | Time-Resolved Conformational Dynamics in Hydrocarbon Chains. <i>Physical Review Letters</i> , 2007, 98, 253004. | 7.8 | 44 |

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|----|--|------|-----------|
| 19 | Optical laser systems at the Linac Coherent Light Source. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 526-531. | 2.4 | 42 |
| 20 | Disentangling Transient Charge Density and Metal-Ligand Covalency in Photoexcited Ferricyanide with Femtosecond Resonant Inelastic Soft X-ray Scattering. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3538-3543. | 4.6 | 42 |
| 21 | Observation of the molecular response to light upon photoexcitation. <i>Nature Communications</i> , 2020, 11, 2157. | 12.8 | 42 |
| 22 | Soft X-ray spectroscopy with transition-edge sensors at Stanford Synchrotron Radiation Lightsource beamline 10-1. <i>Review of Scientific Instruments</i> , 2019, 90, 113101. | 1.3 | 40 |
| 23 | Structural Dynamics in Floppy Systems: Ultrafast Conformer Motions in Rydberg-Excited Triethylamine. <i>Journal of Physical Chemistry A</i> , 2011, 115, 1804-1809. | 2.5 | 37 |
| 24 | The Linac Coherent Light Source: Recent Developments and Future Plans. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 850. | 2.5 | 37 |
| 25 | Ultrafast Independent N-H and N-C Bond Deformation Investigated with Resonant Inelastic X-Ray Scattering. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6088-6092. | 13.8 | 36 |
| 26 | Determining Orientations of Optical Transition Dipole Moments Using Ultrafast X-ray Scattering. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6556-6562. | 4.6 | 36 |
| 27 | Rydberg Fingerprint Spectroscopy of Hot Molecules: A Structural Dispersion in Flexible Hydrocarbons. <i>Journal of Physical Chemistry A</i> , 2006, 110, 10212-10218. | 2.5 | 35 |
| 28 | A deep UV trigger for ground-state ring-opening dynamics of 1,3-cyclohexadiene. <i>Science Advances</i> , 2019, 5, eaax6625. | 10.3 | 35 |
| 29 | The Soft X-ray Research instrument at the Linac Coherent Light Source. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 498-502. | 2.4 | 32 |
| 30 | Ultrafast structural dynamics in Rydberg excited N,N,N',N'-tetramethylethylenediamine: conformation dependent electron lone pair interaction and charge delocalization. <i>Chemical Science</i> , 2014, 5, 4394-4403. | 7.4 | 31 |
| 31 | Resonant Inelastic X-Ray Scattering Reveals Hidden Local Transitions of the Aqueous OH Radical. <i>Physical Review Letters</i> , 2020, 124, 236001. | 7.8 | 28 |
| 32 | Strong Influence of Coadsorbate Interaction on CO Desorption Dynamics on Ru(0001) Probed by Ultrafast X-Ray Spectroscopy and Ab Initio Simulations. <i>Physical Review Letters</i> , 2015, 114, 156101. | 7.8 | 25 |
| 33 | Simplicity Beneath Complexity: Counting Molecular Electrons Reveals Transients and Kinetics of Photodissociation Reactions. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6371-6375. | 13.8 | 25 |
| 34 | Structural dynamics and energy flow in Rydberg-excited clusters of N,N-dimethylisopropylamine. <i>Journal of Chemical Physics</i> , 2011, 135, 044319. | 3.0 | 24 |
| 35 | L-edge spectroscopy of dilute, radiation-sensitive systems using a transition-edge-sensor array. <i>Journal of Chemical Physics</i> , 2017, 147, 214201. | 3.0 | 24 |
| 36 | Femtosecond photodissociation dynamics of 1,4-diiodobenzene by gas-phase X-ray scattering and photoelectron spectroscopy. <i>Faraday Discussions</i> , 2016, 194, 525-536. | 3.2 | 23 |

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|----|---|------|-----------|
| 37 | Dissociative Energy Flow, Vibrational Energy Redistribution, and Conformer Structural Dynamics in Bifunctional Amine Model Systems. <i>Journal of Physical Chemistry A</i> , 2010, 114, 11078-11084. | 2.5 | 22 |
| 38 | Enhanced charge density wave coherence in a light-quenched, high-temperature superconductor. <i>Science</i> , 2022, 376, 860-864. | 12.6 | 22 |
| 39 | Chemical Bond Activation Observed with an X-ray Laser. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3647-3651. | 4.6 | 21 |
| 40 | Probing the Lifetimes of Internally Excited Amyl Nitrite Cations. <i>Journal of Physical Chemistry A</i> , 2010, 114, 7021-7025. | 2.5 | 20 |
| 41 | Advances in ultrafast gas-phase x-ray scattering. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 234004. | 1.5 | 20 |
| 42 | Ultrafast X-ray scattering offers a structural view of excited-state charge transfer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 7.1 | 18 |
| 43 | Combining THz laser excitation with resonant soft X-ray scattering at the Linac Coherent Light Source. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 621-625. | 2.4 | 16 |
| 44 | Scattering off molecules far from equilibrium. <i>Journal of Chemical Physics</i> , 2019, 151, 084301. | 3.0 | 16 |
| 45 | Ring-Closing and Dehydrogenation Reactions of Highly Excited <i>cis</i> -Stilbene: Ultrafast Spectroscopy and Structural Dynamics. <i>Journal of Physical Chemistry A</i> , 2011, 115, 1508-1515. | 2.5 | 15 |
| 46 | Nonlinear Ultrafast Spin Scattering in the Skyrmion Phase of Cu_2MnGe . <i>Physical Review Letters</i> , 2017, 119, 107204. | 7.8 | 18 |
| 47 | Following Metal-to-Ligand Charge-Transfer Dynamics with Ligand and Spin Specificity Using Femtosecond Resonant Inelastic X-ray Scattering at the Nitrogen K-Edge. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6676-6683. | 4.6 | 12 |
| 48 | Ultrafast dynamics of localized magnetic moments in the unconventional Mott insulator Sr_2IrO_4 . <i>Journal of Physics Condensed Matter</i> , 2016, 28, 32LT01. | 1.8 | 11 |
| 49 | Determination of excited state molecular structures from time-resolved gas-phase X-ray scattering. <i>Faraday Discussions</i> , 2021, 228, 104-122. | 3.2 | 10 |
| 50 | Real-Time Elucidation of Catalytic Pathways in CO Hydrogenation on Ru. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3820-3825. | 4.6 | 9 |
| 51 | Ultrafast Dynamics of 1,3-Cyclohexadiene in Highly Excited States. <i>Journal of Atomic, Molecular, and Optical Physics</i> , 2011, 2011, 1-6. | 0.5 | 8 |
| 52 | High-sensitivity x-ray/optical cross-correlator for next generation free-electron lasers. <i>Optics Express</i> , 2020, 28, 23545. | 3.4 | 7 |
| 53 | Ultrafast formation of an intramolecular cation- π bond. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 213, 70-72. | 3.9 | 6 |
| 54 | Simplicity Beneath Complexity: Counting Molecular Electrons Reveals Transients and Kinetics of Photodissociation Reactions. <i>Angewandte Chemie</i> , 2019, 131, 6437-6441. | 2.0 | 6 |

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|----|---|-----|-----------|
| 55 | Far-UV Photochemical Bond Cleavage of <i>n</i> -Amyl Nitrite: Bypassing a Repulsive Surface. Journal of Physical Chemistry A, 2012, 116, 810-819. | 2.5 | 3 |
| 56 | Electronic and non-adiabatic dynamics: general discussion. Faraday Discussions, 2016, 194, 209-257. | 3.2 | 3 |
| 57 | Chemical reaction dynamics I and electron dynamics in molecules: general discussion. Faraday Discussions, 2014, 171, 145-168. | 3.2 | 1 |
| 58 | Vibrational and condensed phase dynamics: general discussion. Faraday Discussions, 2016, 194, 747-775. | 3.2 | 1 |
| 59 | Structural dynamics: general discussion. Faraday Discussions, 2016, 194, 583-620. | 3.2 | 0 |
| 60 | Attosecond processes and X-ray spectroscopy: general discussion. Faraday Discussions, 2016, 194, 427-462. | 3.2 | 0 |
| 61 | Imaging the ring opening reaction of 1,3-cyclohexadiene with MeV ultrafast electron diffraction. EPJ Web of Conferences, 2019, 205, 07006. | 0.3 | 0 |