

# 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	Enhanced charge density wave coherence in a light-quenched, high-temperature superconductor. <i>Science</i> , 2022, 376, 860-864.	12.6	22
2	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
3	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
4	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
5	Observation of the fastest chemical processes in the radiolysis of water. <i>Science</i> , 2020, 367, 179-182.	12.6	149
6	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
7	Observation of the molecular response to light upon photoexcitation. <i>Nature Communications</i> , 2020, 11, 2157.	12.8	42
8	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
9	High-sensitivity x-ray/optical cross-correlator for next generation free-electron lasers. <i>Optics Express</i> , 2020, 28, 23545.	3.4	7
10	Ultrafast X-ray scattering reveals vibrational coherence following Rydberg excitation. <i>Nature Chemistry</i> , 2019, 11, 716-721.	13.6	73
11	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
12	A deep UV trigger for ground-state ring-opening dynamics of 1,3-cyclohexadiene. <i>Science Advances</i> , 2019, 5, eaax6625.	10.3	35
13	Imaging the ring opening reaction of 1,3-cyclohexadiene with MeV ultrafast electron diffraction. <i>EPJ Web of Conferences</i> , 2019, 205, 07006.	0.3	0
14	Scattering off molecules far from equilibrium. <i>Journal of Chemical Physics</i> , 2019, 151, 084301.	3.0	16
15	The photochemical ring-opening of 1,3-cyclohexadiene imaged by ultrafast electron diffraction. <i>Nature Chemistry</i> , 2019, 11, 504-509.	13.6	157
16	Simplicity Beneath Complexity: Counting Molecular Electrons Reveals Transients and Kinetics of Photodissociation Reactions. <i>Angewandte Chemie</i> , 2019, 131, 6437-6441.	2.0	6
17	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
18	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

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19	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
20	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
21	Nonlinear Ultrafast Spin Scattering in the Skyrmion Phase of $Cu_{2}MnSi_{2}$ . <i>Physical Review Letters</i> , 2017, 119, 107204.	7.8	13
22	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
23	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
24	The Linac Coherent Light Source: Recent Developments and Future Plans. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 850.	2.5	37
25	Structural dynamics: general discussion. <i>Faraday Discussions</i> , 2016, 194, 583-620.	3.2	0
26	Vibrational and condensed phase dynamics: general discussion. <i>Faraday Discussions</i> , 2016, 194, 747-775.	3.2	1
27	Attosecond processes and X-ray spectroscopy: general discussion. <i>Faraday Discussions</i> , 2016, 194, 427-462.	3.2	0
28	Electronic and non-adiabatic dynamics: general discussion. <i>Faraday Discussions</i> , 2016, 194, 209-257.	3.2	3
29	Ultrafast dynamics of localized magnetic moments in the unconventional Mott insulator $Sr_{2}IrO_{4}$ . <i>Journal of Physics Condensed Matter</i> , 2016, 28, 32LT01.	1.8	11
30	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
31	Chemical Bond Activation Observed with an X-ray Laser. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3647-3651.	4.6	21
32	Femtosecond photodissociation dynamics of 1,4-diodobenzene by gas-phase X-ray scattering and photoelectron spectroscopy. <i>Faraday Discussions</i> , 2016, 194, 525-536.	3.2	23
33	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
34	Probing the transition state region in catalytic CO oxidation on Ru. <i>Science</i> , 2015, 347, 978-982.	12.6	193
35	Optical laser systems at the Linac Coherent Light Source. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 526-531.	2.4	42
36	Spatially resolved ultrafast magnetic dynamics initiated at a complex oxide heterointerface. <i>Nature Materials</i> , 2015, 14, 883-888.	27.5	109

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37	Imaging Molecular Motion: Femtosecond X-Ray Scattering of an Electrocyclic Chemical Reaction. <i>Physical Review Letters</i> , 2015, 114, 255501.	7.8	254
38	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
39	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
40	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
41	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
42	Toward structural femtosecond chemical dynamics: imaging chemistry in space and time. <i>Faraday Discussions</i> , 2014, 171, 81-91.	3.2	48
43	Nonlinear lattice dynamics as a basis for enhanced superconductivity in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6.5</sub> . <i>Nature</i> , 2014, 516, 71-73.	27.8	391
44	Chemical reaction dynamics I and electron dynamics in molecules: general discussion. <i>Faraday Discussions</i> , 2014, 171, 145-168.	3.2	1
45	Large-Amplitude Spin Dynamics Driven by a THz Pulse in Resonance with an Electromagnon. <i>Science</i> , 2014, 343, 1333-1336.	12.6	255
46	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
47	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
48	Melting of Charge Stripes in Vibrationally Driven $\text{La}_{1-x}\text{Ca}_x\text{CuO}_2$ . <i>Physical Review Letters</i> , 2014, 112, 157002.	7.8	82
49	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
50	Far-UV Photochemical Bond Cleavage of <i>n</i> -Amyl Nitrite: Bypassing a Repulsive Surface. <i>Journal of Physical Chemistry A</i> , 2012, 116, 810-819.	2.5	3
51	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
52	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
53	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
54	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

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55	Ultrafast formation of an intramolecular cation- $\pi$ bond. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 213, 70-72.	3.9	6
56	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
57	Probing the Lifetimes of Internally Excited Amyl Nitrite Cations. <i>Journal of Physical Chemistry A</i> , 2010, 114, 7021-7025.	2.5	20
58	Time-Resolved Conformational Dynamics in Hydrocarbon Chains. <i>Physical Review Letters</i> , 2007, 98, 253004.	7.8	44
59	Rydberg Fingerprint Spectroscopy of Hot Molecules: $\Delta$ Structural Dispersion in Flexible Hydrocarbons. <i>Journal of Physical Chemistry A</i> , 2006, 110, 10212-10218.	2.5	35
60	Energy Flow and Fragmentation Dynamics of N,N-Dimethylisopropylamine. <i>Journal of Physical Chemistry A</i> , 2006, 110, 4251-4255.	2.5	51
61	Direct current slice imaging. <i>Review of Scientific Instruments</i> , 2003, 74, 2530-2539.	1.3	366