

Markus Kowalewski

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

35
papers

950
citations

17
h-index

30
g-index

38
ext. papers

1,148
ext. citations

6.8
avg, IF

4.9
L-index

#	Paper	IF	Citations
35	Cavity Femtochemistry: Manipulating Nonadiabatic Dynamics at Avoided Crossings. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 2050-4	6.4	116
34	Non-adiabatic dynamics of molecules in optical cavities. <i>Journal of Chemical Physics</i> , 2016 , 144, 054309	3.9	88
33	Catching Conical Intersections in the Act: Monitoring Transient Electronic Coherences by Attosecond Stimulated X-Ray Raman Signals. <i>Physical Review Letters</i> , 2015 , 115, 193003	7.4	87
32	Simulating Coherent Multidimensional Spectroscopy of Nonadiabatic Molecular Processes: From the Infrared to the X-ray Regime. <i>Chemical Reviews</i> , 2017 , 117, 12165-12226	68.1	77
31	Monotonic convergent optimal control theory with strict limitations on the spectrum of optimized laser fields. <i>Physical Review Letters</i> , 2008 , 101, 073002	7.4	66
30	Novel photochemistry of molecular polaritons in optical cavities. <i>Faraday Discussions</i> , 2016 , 194, 259-282	3.6	62
29	Optimal control theory--closing the gap between theory and experiment. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 14460-85	3.6	55
28	Monitoring nonadiabatic avoided crossing dynamics in molecules by ultrafast X-ray diffraction. <i>Structural Dynamics</i> , 2017 , 4, 054101	3.2	37
27	Monitoring molecular nonadiabatic dynamics with femtosecond X-ray diffraction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 6538-6547	11.5	37
26	A molecular conveyor belt by controlled delivery of single molecules into ultrashort laser pulses. <i>Nature Physics</i> , 2012 , 8, 238-242	16.2	34
25	Manipulating molecules with quantum light. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 3278-3280	11.5	31
24	Multidimensional resonant nonlinear spectroscopy with coherent broadband x-ray pulses. <i>Physica Scripta</i> , 2016 , T169, 014002	2.6	25
23	Ultrafast dynamics in the vicinity of quantum light-induced conical intersections. <i>New Journal of Physics</i> , 2019 , 21, 093040	2.9	25
22	Monitoring Nonadiabatic Electron-Nuclear Dynamics in Molecules by Attosecond Streaking of Photoelectrons. <i>Physical Review Letters</i> , 2016 , 117, 043201	7.4	24
21	Chemoselective quantum control of carbonyl bonds in Grignard reactions using shaped laser pulses. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 15780-7	3.6	20
20	X-Ray Sum Frequency Diffraction for Direct Imaging of Ultrafast Electron Dynamics. <i>Physical Review Letters</i> , 2018 , 120, 243902	7.4	19
19	Probing electronic and vibrational dynamics in molecules by time-resolved photoelectron, Auger-electron, and X-ray photon scattering spectroscopy. <i>Faraday Discussions</i> , 2015 , 177, 405-28	3.6	18

18	Quantum Dynamics of a Photochemical Bond Cleavage Influenced by the Solvent Environment: A Dynamic Continuum Approach. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3480-5	6.4	17
17	Nonadiabatic Dynamics May Be Probed through Electronic Coherence in Time-Resolved Photoelectron Spectroscopy. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 740-52	6.4	16
16	Stimulated Raman signals at conical intersections: Ab initio surface hopping simulation protocol with direct propagation of the nuclear wave function. <i>Journal of Chemical Physics</i> , 2015 , 143, 044117	3.9	15
15	Comment on "Self-Referenced Coherent Diffraction X-Ray Movie of Egstrom- and Femtosecond-Scale Atomic Motion". <i>Physical Review Letters</i> , 2017 , 119, 069301	7.4	11
14	Searching for pathways involving dressed states in optimal control theory. <i>Faraday Discussions</i> , 2011 , 153, 159-71; discussion 189-212	3.6	11
13	Atom Assisted Photochemistry in Optical Cavities. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 4672-4677	2.8	10
12	Cavity sideband cooling of trapped molecules. <i>Physical Review A</i> , 2011 , 84,	2.6	10
11	Simulating photodissociation reactions in bad cavities with the Lindblad equation. <i>Journal of Chemical Physics</i> , 2020 , 153, 234304	3.9	10
10	Diffraction-Detected Sum Frequency Generation: Novel Ultrafast X-ray Probe of Molecular Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 3392-3396	6.4	7
9	Quantum control with quantum light of molecular nonadiabaticity. <i>Physical Review A</i> , 2019 , 100,	2.6	6
8	Imaging of transition charge densities involving carbon core excitations by all X-ray sum-frequency generation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019 , 377, 20170470	3	3
7	Capturing fingerprints of conical intersection: Complementary information of non-adiabatic dynamics from linear x-ray probes. <i>Structural Dynamics</i> , 2021 , 8, 034101	3.2	3
6	Controlling the Photostability of Pyrrole with Optical Nanocavities. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 1142-1151	2.8	3
5	Time-Resolved Photoelectron Spectroscopy of Conical Intersections with Attosecond Pulse Trains. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 8103-8108	6.4	3
4	Multiscale wavelet decomposition of time-resolved X-ray diffraction signals in cyclohexadiene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 10269-10274	11.5	2
3	Multi-wave mixing in the high harmonic regime: monitoring electronic dynamics. <i>Optics Express</i> , 2021 , 29, 4746-4754	3.3	1
2	Direct imaging of ultrafast electron dynamics by X-ray sum frequency generation. <i>EPJ Web of Conferences</i> , 2019 , 205, 03004	0.3	
1	Monitoring nonadiabatic dynamics in molecules by ultrafast X-Ray diffraction. <i>EPJ Web of Conferences</i> , 2019 , 205, 09032	0.3	

