

Markus Mk Kowalewski

List of Publications by Year in Descending Order

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Version: 2024-04-20

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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.

57
papers

1,145
citations

19
h-index

32
g-index

69
ext. papers

1,371
ext. citations

5.9
avg, IF

5.02
L-index

#	Paper	IF	Citations
57	Photoinduced bond oscillations in ironpentacarbonyl give delayed synchronous bursts of carbonmonoxide release.. <i>Nature Communications</i> , 2022 , 13, 1337	17.4	0
56	Direct Transition from Triplet Excitons to Hybrid Light-Matter States via Triplet-Triplet Annihilation. <i>Journal of the American Chemical Society</i> , 2021 , 143, 7501-7508	16.4	12
55	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
54	Controlling the Photostability of Pyrrole with Optical Nanocavities. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 1142-1151	2.8	3
53	Multi-wave mixing in the high harmonic regime: monitoring electronic dynamics. <i>Optics Express</i> , 2021 , 29, 4746-4754	3.3	1
52	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
51	Atom Assisted Photochemistry in Optical Cavities. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 4672-4677	2.8	10
50	Simulating photodissociation reactions in bad cavities with the Lindblad equation. <i>Journal of Chemical Physics</i> , 2020 , 153, 234304	3.9	10
49	Direct imaging of ultrafast electron dynamics by X-ray sum frequency generation. <i>EPJ Web of Conferences</i> , 2019 , 205, 03004	0.3	
48	Monitoring nonadiabatic dynamics in molecules by ultrafast X-Ray diffraction. <i>EPJ Web of Conferences</i> , 2019 , 205, 09032	0.3	
47	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
46	Ultrafast dynamics in the vicinity of quantum light-induced conical intersections. <i>New Journal of Physics</i> , 2019 , 21, 093040	2.9	25
45	Quantum control with quantum light of molecular nonadiabaticity. <i>Physical Review A</i> , 2019 , 100,	2.6	6
44	Phase Cycling RT-TDDFT Simulation Protocol for Nonlinear XUV and X-ray Molecular Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1072-1078	6.4	9
43	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
42	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
41	X-Ray Sum Frequency Diffraction for Direct Imaging of Ultrafast Electron Dynamics. <i>Physical Review Letters</i> , 2018 , 120, 243902	7.4	19

40	Attosecond X-ray Diffraction Triggered by Core or Valence Ionization of a Dipeptide. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 329-338	6.4	13
39	Impulsive UV-pump/X-ray probe study of vibrational dynamics in glycine. <i>Scientific Reports</i> , 2018 , 8, 15466	9	5
38	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
37	Monitoring nonadiabatic avoided crossing dynamics in molecules by ultrafast X-ray diffraction. <i>Structural Dynamics</i> , 2017 , 4, 054101	3.2	37
36	Photoinduced molecular chirality probed by ultrafast resonant X-ray spectroscopy. <i>Structural Dynamics</i> , 2017 , 4, 044006	3.2	12
35	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
34	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
33	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
32	Monitoring Nonadiabatic Electron-Nuclear Dynamics in Molecules by Attosecond Streaking of Photoelectrons. <i>Physical Review Letters</i> , 2016 , 117, 043201	7.4	24
31	Novel photochemistry of molecular polaritons in optical cavities. <i>Faraday Discussions</i> , 2016 , 194, 259-282	3.6	62
30	Multidimensional resonant nonlinear spectroscopy with coherent broadband x-ray pulses. <i>Physica Scripta</i> , 2016 , T169, 014002	2.6	25
29	Current vs Charge Density Contributions to Nonlinear X-ray Spectroscopy. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 3959-68	6.4	5
28	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
27	Non-adiabatic dynamics of molecules in optical cavities. <i>Journal of Chemical Physics</i> , 2016 , 144, 054309	3.9	88
26	Structural dynamics: general discussion. <i>Faraday Discussions</i> , 2016 , 194, 583-620	3.6	
25	Electronic and non-adiabatic dynamics: general discussion. <i>Faraday Discussions</i> , 2016 , 194, 209-257	3.6	3
24	An adaptive interpolation scheme for molecular potential energy surfaces. <i>Journal of Chemical Physics</i> , 2016 , 145, 084104	3.9	2
23	Cavity Femtochemistry: Manipulating Nonadiabatic Dynamics at Avoided Crossings. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 2050-4	6.4	116

22	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
21	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
20	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
19	Wave packet simulations of antiproton scattering on molecular hydrogen. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015 , 48, 195204	1.3	1
18	Spectroscopic Investigations of High-Nitrogen Compounds for Near-Infrared Illuminants. <i>Propellants, Explosives, Pyrotechnics</i> , 2014 , 39, 166-172	1.7	2
17	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
16	Nucleophilic substitution dynamics: comparing wave packet calculations with experiment. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 4661-9	2.8	20
15	Vibrational Energy Transfer Through Molecular Chains: An Approach Toward Scalable Information Processing. <i>Advances in Chemical Physics</i> , 2014 , 371-402		
14	Femtosecond pump-probe spectroscopy for single trapped molecular ions. <i>EPJ Web of Conferences</i> , 2013 , 41, 02028	0.3	
13	Molecular wave packet dynamics decelerated by solvent environment: A theoretical approach. <i>EPJ Web of Conferences</i> , 2013 , 41, 05043	0.3	3
12	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2012 , 18, 119-129	3.8	21
11	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
10	Optimal control theory--closing the gap between theory and experiment. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 14460-85	3.6	55
9	Searching for pathways involving dressed states in optimal control theory. <i>Faraday Discussions</i> , 2011 , 153, 159-71; discussion 189-212	3.6	11
8	Cavity sideband cooling of trapped molecules. <i>Physical Review A</i> , 2011 , 84,	2.6	10
7	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
6	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
5	Transition-Metal-Free Boron-Carbon Bond Activation: Insertion of an NNP Fragment into a Boron-Carbon Bond. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 5319-5322	2.3	10

4	Cavity cooling of translational and ro-vibrational motion of molecules: ab initio-based simulations for OH and NO. <i>Applied Physics B: Lasers and Optics</i> , 2007 , 89, 459-467	1.9	10
3	Cavity cooling of internal molecular motion. <i>Physical Review Letters</i> , 2007 , 99, 073001	7.4	61
2	Reinvestigation of hydrazinium tetrafluoroborate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006 , 62, i248-i249		5
1	Sustainable packaging of quantum chemistry software with the Nix package manager. <i>International Journal of Quantum Chemistry</i> ,	2.1	1