Markus Kowalewski

List of Publications by Year in Descending Order

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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	Capturing fingerprints of conical intersection: Complementary information of non-adiabatic dynamics from linear x-ray probes. *Structural Dynamics*, **2021**, 8, 034101	3.2	3
34	Controlling the Photostability of Pyrrole with Optical Nanocavities. *Journal of Physical Chemistry A*, **2021**, 125, 1142-1151	2.8	3
33	Multi-wave mixing in the high harmonic regime: monitoring electronic dynamics. *Optics Express*, **2021**, 29, 4746-4754	3.3	1
32	Time-Resolved Photoelectron Spectroscopy of Conical Intersections with Attosecond Pulse Trains. *Journal of Physical Chemistry Letters*, **2021**, 12, 8103-8108	6.4	3
31	Atom Assisted Photochemistry in Optical Cavities. *Journal of Physical Chemistry A*, **2020**, 124, 4672-4677	2.8	10
30	Simulating photodissociation reactions in bad cavities with the Lindblad equation. *Journal of Chemical Physics*, **2020**, 153, 234304	3.9	10
29	Direct imaging of ultrafast electron dynamics by X-ray sum frequency generation. *EPJ Web of Conferences*, **2019**, 205, 03004	0.3	
28	Monitoring nonadiabatic dynamics in molecules by ultrafast X-Ray diffraction. *EPJ Web of Conferences*, **2019**, 205, 09032	0.3	
27	Imaging of transition charge densities involving carbon core excitations by all X-ray sum-frequency generation. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2019**, 377, 20170470	3	3
26	Ultrafast dynamics in the vicinity of quantum light-induced conical intersections. *New Journal of Physics*, **2019**, 21, 093040	2.9	25
25	Quantum control with quantum light of molecular nonadiabaticity. *Physical Review A*, **2019**, 100,	2.6	6
24	Diffraction-Detected Sum Frequency Generation: Novel Ultrafast X-ray Probe of Molecular Dynamics. *Journal of Physical Chemistry Letters*, **2018**, 9, 3392-3396	6.4	7
23	Monitoring molecular nonadiabatic dynamics with femtosecond X-ray diffraction. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 6538-6547	11.5	37
22	X-Ray Sum Frequency Diffraction for Direct Imaging of Ultrafast Electron Dynamics. *Physical Review Letters*, **2018**, 120, 243902	7.4	19
21	Multiscale wavelet decomposition of time-resolved X-ray diffraction signals in cyclohexadiene. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 10269-10274	11.5	2
20	Monitoring nonadiabatic avoided crossing dynamics in molecules by ultrafast X-ray diffraction. *Structural Dynamics*, **2017**, 4, 054101	3.2	37
19	Manipulating molecules with quantum light. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 3278-3280	11.5	31

18	Simulating Coherent Multidimensional Spectroscopy of Nonadiabatic Molecular Processes: From the Infrared to the X-ray Regime. *Chemical Reviews*, **2017**, 117, 12165-12226	68.1	77
17	Comment on "Self-Referenced Coherent Diffraction X-Ray Movie of Ångstrom- and Femtosecond-Scale Atomic Motion". *Physical Review Letters*, **2017**, 119, 069301	7.4	11
16	Monitoring Nonadiabatic Electron-Nuclear Dynamics in Molecules by Attosecond Streaking of Photoelectrons. *Physical Review Letters*, **2016**, 117, 043201	7.4	24
15	Novel photochemistry of molecular polaritons in optical cavities. *Faraday Discussions*, **2016**, 194, 259-282	3.6	62
14	Multidimensional resonant nonlinear spectroscopy with coherent broadband x-ray pulses. *Physica Scripta*, **2016**, T169, 014002	2.6	25
13	Nonadiabatic Dynamics May Be Probed through Electronic Coherence in Time-Resolved Photoelectron Spectroscopy. *Journal of Chemical Theory and Computation*, **2016**, 12, 740-52	6.4	16
12	Non-adiabatic dynamics of molecules in optical cavities. *Journal of Chemical Physics*, **2016**, 144, 054309	3.9	88
11	Cavity Femtochemistry: Manipulating Nonadiabatic Dynamics at Avoided Crossings. *Journal of Physical Chemistry Letters*, **2016**, 7, 2050-4	6.4	116
10	Probing electronic and vibrational dynamics in molecules by time-resolved photoelectron, Auger-electron, and X-ray photon scattering spectroscopy. *Faraday Discussions*, **2015**, 177, 405-28	3.6	18
9	Catching Conical Intersections in the Act: Monitoring Transient Electronic Coherences by Attosecond Stimulated X-Ray Raman Signals. *Physical Review Letters*, **2015**, 115, 193003	7.4	87
8	Stimulated Raman signals at conical intersections: Ab initio surface hopping simulation protocol with direct propagation of the nuclear wave function. *Journal of Chemical Physics*, **2015**, 143, 044117	3.9	15
7	Quantum Dynamics of a Photochemical Bond Cleavage Influenced by the Solvent Environment: A Dynamic Continuum Approach. *Journal of Physical Chemistry Letters*, **2014**, 5, 3480-5	6.4	17
6	A molecular conveyor belt by controlled delivery of single molecules into ultrashort laser pulses. *Nature Physics*, **2012**, 8, 238-242	16.2	34
5	Optimal control theory--closing the gap between theory and experiment. *Physical Chemistry Chemical Physics*, **2012**, 14, 14460-85	3.6	55
4	Searching for pathways involving dressed states in optimal control theory. *Faraday Discussions*, **2011**, 153, 159-71; discussion 189-212	3.6	11
3	Cavity sideband cooling of trapped molecules. *Physical Review A*, **2011**, 84,	2.6	10
2	Chemoselective quantum control of carbonyl bonds in Grignard reactions using shaped laser pulses. *Physical Chemistry Chemical Physics*, **2010**, 12, 15780-7	3.6	20
1	Monotonic convergent optimal control theory with strict limitations on the spectrum of optimized laser fields. *Physical Review Letters*, **2008**, 101, 073002	7.4	66