

Peter Kraus

List of Publications by Year in descending order

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43
papers

1,988
citations

361045

20
h-index

315357

38
g-index

44
all docs

44
docs citations

44
times ranked

2296
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement and laser control of attosecond charge migration in ionized iodoacetylene. <i>Science</i> , 2015, 350, 790-795.	6.0	463
2	The ultrafast X-ray spectroscopic revolution in chemical dynamics. <i>Nature Reviews Chemistry</i> , 2018, 2, 82-94.	13.8	215
3	Charge migration and charge transfer in molecular systems. <i>Structural Dynamics</i> , 2017, 4, 061508.	0.9	146
4	Direct and simultaneous observation of ultrafast electron and hole dynamics in germanium. <i>Nature Communications</i> , 2017, 8, 15734.	5.8	117
5	Tracking the insulator-to-metal phase transition in VO ₂ with few-femtosecond extreme UV transient absorption spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 9558-9563.	3.3	112
6	High-Harmonic Spectroscopy of Oriented OCS Molecules: Emission of Even and Odd Harmonics. <i>Physical Review Letters</i> , 2012, 109, 233903.	2.9	111
7	Two-Pulse Field-Free Orientation Reveals Anisotropy of Molecular Shape Resonance. <i>Physical Review Letters</i> , 2014, 113, 023001.	2.9	82
8	Observation of laser-induced electronic structure in oriented polyatomic molecules. <i>Nature Communications</i> , 2015, 6, 7039.	5.8	68
9	High-Harmonic Probing of Electronic Coherence in Dynamically Aligned Molecules. <i>Physical Review Letters</i> , 2013, 111, 243005.	2.9	56
10	Quantum interference and multielectron effects in high-harmonic spectra of polar molecules. <i>Physical Review A</i> , 2013, 87, .	1.0	55
11	Unusual mechanism for H ₃ ⁺ formation from ethane as obtained by femtosecond laser pulse ionization and quantum chemical calculations. <i>Journal of Chemical Physics</i> , 2011, 134, 114302.	1.2	51
12	High-harmonic spectroscopy of isoelectronic molecules: Wavelength scaling of electronic-structure and multielectron effects. <i>Physical Review A</i> , 2013, 87, .	1.0	48
13	Ultrafast carrier thermalization and trapping in silicon-germanium alloy probed by extreme ultraviolet transient absorption spectroscopy. <i>Structural Dynamics</i> , 2017, 4, 044029.	0.9	42
14	Two-pulse orientation dynamics and high-harmonic spectroscopy of strongly-oriented molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 124030.	0.6	40
15	Perspectives of Attosecond Spectroscopy for the Understanding of Fundamental Electron Correlations. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5228-5247.	7.2	40
16	Femtosecond tracking of carrier relaxation in germanium with extreme ultraviolet transient reflectivity. <i>Physical Review B</i> , 2018, 97, .	1.1	40
17	Hot phonon and carrier relaxation in Si(100) determined by transient extreme ultraviolet spectroscopy. <i>Structural Dynamics</i> , 2018, 5, 054302.	0.9	39
18	Time-resolved high-harmonic spectroscopy of nonadiabatic dynamics in NO ₂ . <i>Physical Review A</i> , 2012, 85, .	1.0	36

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19	Attosecond Time-Domain Measurement of Core-Level-Exciton Decay in Magnesium Oxide. <i>Physical Review Letters</i> , 2020, 124, 207401.	2.9	34
20	Efficient table-top dual-wavelength beamline for ultrafast transient absorption spectroscopy in the soft X-ray region. <i>Scientific Reports</i> , 2020, 10, 5773.	1.6	27
21	Divergence Control of High-Harmonic Generation. <i>Physical Review Applied</i> , 2020, 13, .	1.5	21
22	The sensitivities of high-harmonic generation and strong-field ionization to coupled electronic and nuclear dynamics. <i>Faraday Discussions</i> , 2014, 171, 113-132.	1.6	20
23	Simultaneous generation of sub-5-femtosecond 400-nm and 800-nm pulses for attosecond extreme ultraviolet pump-probe spectroscopy. <i>Optics Letters</i> , 2016, 41, 5365.	1.7	17
24	Time-resolved high-harmonic spectroscopy of valence electron dynamics. <i>Chemical Physics</i> , 2013, 414, 32-44.	0.9	15
25	Theoretical study of molecular electronic and rotational coherences by high-order-harmonic generation. <i>Physical Review A</i> , 2015, 91, .	1.0	13
26	Attosecond transient absorption instrumentation for thin film materials: Phase transitions, heat dissipation, signal stabilization, timing correction, and rapid sample rotation. <i>Review of Scientific Instruments</i> , 2018, 89, 013109.	0.6	13
27	Retrieval of the complex-valued refractive index of germanium near the $M_{4,5}$ absorption edge. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 1716.	0.9	13
28	Extreme-Ultraviolet Shaping and Imaging by High-Harmonic Generation from Nanostructured Silica. <i>Physical Review Letters</i> , 2022, 128, .	2.9	10
29	Divergence and efficiency optimization in polarization-controlled two-color high-harmonic generation. <i>Scientific Reports</i> , 2021, 11, 24253.	1.6	9
30	Coherent energy exchange between carriers and phonons in Peierls-distorted bismuth unveiled by broadband XUV pulses. <i>Physical Review Research</i> , 2021, 3, .	1.3	8
31	Direct amplitude shaping of high harmonics in the extreme ultraviolet. <i>Optics Express</i> , 2012, 20, 25843.	1.7	7
32	XUV Induced Bleaching of a Tin Oxo Cage Photoresist Studied by High Harmonic Absorption Spectroscopy. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2020, 33, 145-151.	0.1	6
33	An effective force field for molecular dynamics simulations of dimethyl sulfone. <i>Molecular Physics</i> , 2011, 109, 2593-2605.	0.8	4
34	Probing Electronic Dynamics during Photochemical Reactions. <i>Chimia</i> , 2013, 67, 207.	0.3	2
35	Efficient extreme-ultraviolet multi-band high-order wave mixing in silica. , 2021, , .		2
36	Extreme ultraviolet-excited time-resolved luminescence spectroscopy using an ultrafast table-top high-harmonic generation source. <i>Review of Scientific Instruments</i> , 2021, 92, 113004.	0.6	2

#	ARTICLE	IF	CITATIONS
37	Attosecond charge migration and its laser control. Journal of Physics: Conference Series, 2015, 635, 112136.	0.3	1
38	Perspektiven für das Verständnis fundamentaler Elektronenkorrelationen durch Attosekundenspektroskopie. Angewandte Chemie, 2018, 130, 5324-5344.	1.6	1
39	Attosecond transient reflectivity of electron dynamics in germanium. , 2016, , .		1
40	Attosecond kinetics of photoexcited Germanium. , 2017, , .		0
41	Efficient table-top beamline for attosecond molecular and solid-state dynamics at the carbon K-edge. Journal of Physics: Conference Series, 2020, 1412, 072046.	0.3	0
42	Electron and Hole Dynamics in Silicon-Germanium Alloy Measured by Attosecond XUV Transient Absorption. , 2016, , .		0
43	Valley-dependent Carrier and Lattice Dynamics in Silicon measured by Transient XUV Spectroscopy. , 2017, , .		0