

# Peter Kraus

## List of Publications by Year in descending order

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43  
papers

1,988  
citations

361413  
20  
h-index

315739  
38  
g-index

44  
all docs

44  
docs citations

44  
times ranked

2296  
citing authors

#	ARTICLE	IF	CITATIONS
1	Extreme-Ultraviolet Shaping and Imaging by High-Harmonic Generation from Nanostructured Silica. Physical Review Letters, 2022, 128, .	7.8	10
2	Efficient extreme-ultraviolet multi-band high-order wave mixing in silica. , 2021, , .		2
3	Coherent energy exchange between carriers and phonons in Peierls-distorted bismuth unveiled by broadband XUV pulses. Physical Review Research, 2021, 3, .	3.6	8
4	Extreme ultraviolet-excited time-resolved luminescence spectroscopy using an ultrafast table-top high-harmonic generation source. Review of Scientific Instruments, 2021, 92, 113004.	1.3	2
5	Divergence and efficiency optimization in polarization-controlled two-color high-harmonic generation. Scientific Reports, 2021, 11, 24253.	3.3	9
6	Divergence Control of High-Harmonic Generation. Physical Review Applied, 2020, 13, .	3.8	21
7	Attosecond Time-Domain Measurement of Core-Level-Exciton Decay in Magnesium Oxide. Physical Review Letters, 2020, 124, 207401.	7.8	34
8	Efficient table-top beamline for attosecond molecular and solid-state dynamics at the carbon K-edge. Journal of Physics: Conference Series, 2020, 1412, 072046.	0.4	0
9	Efficient table-top dual-wavelength beamline for ultrafast transient absorption spectroscopy in the soft X-ray region. Scientific Reports, 2020, 10, 5773.	3.3	27
10	XUV Induced Bleaching of a Tin Oxo Cage Photoresist Studied by High Harmonic Absorption Spectroscopy. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2020, 33, 145-151.	0.3	6
11	Retrieval of the complex-valued refractive index of germanium near the $M_{4,5}$ absorption edge. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 1716.	2.1	13
12	Attosecond transient absorption instrumentation for thin film materials: Phase transitions, heat dissipation, signal stabilization, timing correction, and rapid sample rotation. Review of Scientific Instruments, 2018, 89, 013109.	1.3	13
13	Perspectives of Attosecond Spectroscopy for the Understanding of Fundamental Electron Correlations. Angewandte Chemie - International Edition, 2018, 57, 5228-5247.	13.8	40
14	Perspektiven für das Verständnis fundamentaler Elektronenkorrelationen durch Attosekundenspektroskopie. Angewandte Chemie, 2018, 130, 5324-5344.	2.0	1
15	Hot phonon and carrier relaxation in Si(100) determined by transient extreme ultraviolet spectroscopy. Structural Dynamics, 2018, 5, 054302.	2.3	39
16	The ultrafast X-ray spectroscopic revolution in chemical dynamics. Nature Reviews Chemistry, 2018, 2, 82-94.	30.2	215
17	Femtosecond tracking of carrier relaxation in germanium with extreme ultraviolet transient reflectivity. Physical Review B, 2018, 97, .	3.2	40
18	Direct and simultaneous observation of ultrafast electron and hole dynamics in germanium. Nature Communications, 2017, 8, 15734.	12.8	117

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19	Ultrafast carrier thermalization and trapping in silicon-germanium alloy probed by extreme ultraviolet transient absorption spectroscopy. Structural Dynamics, 2017, 4, 044029.	2.3	42
20	Tracking the insulator-to-metal phase transition in VO <sub>2</sub> with few-femtosecond extreme UV transient absorption spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9558-9563.	7.1	112
21	Charge migration and charge transfer in molecular systems. Structural Dynamics, 2017, 4, 061508.	2.3	146
22	Attosecond kinetics of photoexcited Germanium. , 2017, , .		0
23	Valley-dependent Carrier and Lattice Dynamics in Silicon measured by Transient XUV Spectroscopy. , 2017, , .		0
24	Simultaneous generation of sub-5-femtosecond 400-nm and 800-nm pulses for attosecond extreme ultraviolet pump-probe spectroscopy. Optics Letters, 2016, 41, 5365.	3.3	17
25	Attosecond transient reflectivity of electron dynamics in germanium. , 2016, , .		1
26	Electron and Hole Dynamics in Silicon-Germanium Alloy Measured by Attosecond XUV Transient Absorption. , 2016, , .		0
27	Attosecond charge migration and its laser control. Journal of Physics: Conference Series, 2015, 635, 112136.	0.4	1
28	Theoretical study of molecular electronic and rotational coherences by high-order-harmonic generation. Physical Review A, 2015, 91, .	2.5	13
29	Observation of laser-induced electronic structure in oriented polyatomic molecules. Nature Communications, 2015, 6, 7039.	12.8	68
30	Measurement and laser control of attosecond charge migration in ionized iodoacetylene. Science, 2015, 350, 790-795.	12.6	463
31	The sensitivities of high-harmonic generation and strong-field ionization to coupled electronic and nuclear dynamics. Faraday Discussions, 2014, 171, 113-132.	3.2	20
32	Two-Pulse Field-Free Orientation Reveals Anisotropy of Molecular Shape Resonance. Physical Review Letters, 2014, 113, 023001.	7.8	82
33	Two-pulse orientation dynamics and high-harmonic spectroscopy of strongly-oriented molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 124030.	1.5	40
34	Time-resolved high-harmonic spectroscopy of valence electron dynamics. Chemical Physics, 2013, 414, 32-44.	1.9	15
35	Quantum interference and multielectron effects in high-harmonic spectra of polar molecules. Physical Review A, 2013, 87, .	2.5	55
36	High-Harmonic Probing of Electronic Coherence in Dynamically Aligned Molecules. Physical Review Letters, 2013, 111, 243005.	7.8	56

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37	High-harmonic spectroscopy of isoelectronic molecules: Wavelength scaling of electronic-structure and multielectron effects. Physical Review A, 2013, 87, .	2.5	48
38	Probing Electronic Dynamics during Photochemical Reactions. Chimia, 2013, 67, 207.	0.6	2
39	Direct amplitude shaping of high harmonics in the extreme ultraviolet. Optics Express, 2012, 20, 25843.	3.4	7
40	Time-resolved high-harmonic spectroscopy of nonadiabatic dynamics in NO $\times$ 2. Physical Review A, 2012, 85, .	2.5	36
41	High-Harmonic Spectroscopy of Oriented OCS Molecules: Emission of Even and Odd Harmonics. Physical Review Letters, 2012, 109, 233903.	7.8	111
42	An effective force field for molecular dynamics simulations of dimethyl sulfone. Molecular Physics, 2011, 109, 2593-2605.	1.7	4
43	Unusual mechanism for H3 <sup>+</sup> formation from ethane as obtained by femtosecond laser pulse ionization and quantum chemical calculations. Journal of Chemical Physics, 2011, 134, 114302.	3.0	51