

Matthias Käbel

List of Publications by Year in descending order

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55
papers

1,726
citations

257450

24
h-index

276875

41
g-index

55
all docs

55
docs citations

55
times ranked

1576
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Order Phase-Dependent Asymmetry in the Above-Threshold Ionization Plateau. <i>Physical Review Letters</i> , 2021, 126, 113201.	7.8	13
2	Laser-Driven Anharmonic Oscillator: Ground-State Dissociation of the Helium Hydride Molecular Ion by Midinfrared Pulses. <i>Physical Review Letters</i> , 2021, 127, 043202.	7.8	5
3	Experimental study of the laser-induced ionization of heavy metal and metalloid ions: Au ⁺ and Si ²⁺ in intense and sculpted femtosecond laser fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 174002.	1.5	1
4	Quantum interference and imaging using intense laser fields. <i>European Physical Journal D</i> , 2021, 75, 1.	1.3	8
5	Signatures of Light-Induced Potential Energy Surfaces in H ₂ ⁺ . <i>Journal of Physics: Conference Series</i> , 2020, 1412, 092017.	0.4	0
6	Strong-field laser-induced fragmentation of small molecules from fast to slow. <i>Advances in Atomic, Molecular and Optical Physics</i> , 2020, , 67-162.	2.3	5
7	Probing multiphoton light-induced molecular potentials. <i>Nature Communications</i> , 2020, 11, 2596.	12.8	26
8	Carrier-envelope-phase measurement of few-cycle mid-infrared laser pulses using high harmonic generation in ZnO. <i>Optics Express</i> , 2020, 28, 7314.	3.4	15
9	Femtosecond streaking in ambient air. <i>Optica</i> , 2020, 7, 1372.	9.3	25
10	Few-cycle laser driven reaction nanoscopy on aerosolized silica nanoparticles. <i>Nature Communications</i> , 2019, 10, 4655.	12.8	19
11	Threshold photodissociation dynamics of NO ₂ studied by time-resolved cold target recoil ion momentum spectroscopy. <i>Journal of Chemical Physics</i> , 2019, 151, 174301.	3.0	16
12	Streaking strong-field double ionization. <i>Physical Review A</i> , 2019, 100, .	2.5	3
13	Spatiotemporal imaging of valence electron motion. <i>Nature Communications</i> , 2019, 10, 1042.	12.8	27
14	Terahertz-Field-Induced Time Shifts in Atomic Photoemission. <i>Physical Review Letters</i> , 2019, 122, 073001.	7.8	18
15	Rescattering effects in streaking experiments of strong-field ionization. <i>Physical Review A</i> , 2019, 100, .	2.5	4
16	Phase- and intensity-resolved measurements of above threshold ionization by few-cycle pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 134007.	1.5	14
17	Attosecond-controlled photoemission from metal nanowire tips in the few-electron regime. <i>APL Photonics</i> , 2017, 2, .	5.7	17
18	Phase- and intensity-dependence of ultrafast dynamics in hydrocarbon molecules in few-cycle laser fields. <i>Molecular Physics</i> , 2017, 115, 1835-1845.	1.7	8

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19	Non-sequential double ionization with near-single cycle laser pulses. Scientific Reports, 2017, 7, 7488.	3.3	25
20	Streak Camera for Strong-Field Ionization. Physical Review Letters, 2017, 119, 183201.	7.8	21
21	Strong near-field induced molecular processes on nanoparticles. , 2017, , .		0
22	Visualization of bond rearrangements in acetylene using near single-cycle laser pulses. Faraday Discussions, 2016, 194, 495-508.	3.2	26
23	Complete characterization of single-cycle double ionization of argon from the nonsequential to the sequential ionization regime. Physical Review A, 2016, 93, .	2.5	30
24	Steering Proton Migration in Hydrocarbons Using Intense Few-Cycle Laser Fields. Physical Review Letters, 2016, 116, 193001.	7.8	74
25	Laser intensity effects in carrier-envelope phase-tagged time of flight-photoemission electron microscopy. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	6
26	Time-resolved study of ICD in Ne dimers using FEL radiation. Journal of Electron Spectroscopy and Related Phenomena, 2015, 204, 245-256.	1.7	14
27	Carrier-envelope phase control over fragmentation of H ₂ ⁺ and D ₂ . Journal of Physics: Conference Series, 2015, 635, 112045.	0.4	0
28	Single-Cycle Non-Sequential Double Ionization. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 1-9.	2.9	17
29	Coherent Electronic Wave Packet Motion in C_2 by the Waveform and Polarization of Few-Cycle Laser Fields. Physical Review Letters, 2015, 114, 123004.	7.8	51
30	Strong-field control of the dissociative ionization of N ₂ O with near-single-cycle pulses. New Journal of Physics, 2014, 16, 065017.	2.9	25
31	Multiple ionization and fragmentation dynamics of molecular iodine studied in "XUV pump-probe" experiments. Faraday Discussions, 2014, 171, 41-56.	3.2	14
32	Non-sequential double ionization of Ar: from the single- to the many-cycle regime. New Journal of Physics, 2014, 16, 033008.	2.9	31
33	Electron Rearrangement Dynamics in Dissociating I_2 Accessed by Extreme Ultraviolet Pump-Probe Experiments. Physical Review Letters, 2014, 113, 073001.	7.8	52
34	Subfemtosecond steering of hydrocarbon deprotonation through superposition of vibrational modes. Nature Communications, 2014, 5, 3800.	12.8	78
35	Solid-state light-phase detector. Nature Photonics, 2014, 8, 214-218.	31.4	75
36	Intensity dependence of the attosecond control of the dissociative ionization of D ₂ . Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 124020.	1.5	16

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37	Nonsequential double ionization of N in a near-single-cycle laser pulse. <i>Physical Review A</i> , 2013, 88, .	2.5	29
38	Carrier-Envelope Phase Control over Pathway Interference in Strong-Field Dissociation of H_2 . <i>Physical Review Letters</i> , 2013, 111, 163004.	7.8	62
39	Time-Resolved Measurement of Interatomic Coulombic Decay in Ne_2 . <i>Physical Review Letters</i> , 2013, 111, 093402.	7.8	117
40	Carrier-envelope-phase tagging in measurements with long acquisition times. <i>New Journal of Physics</i> , 2012, 14, 093027.	2.9	16
41	Attosecond tracing of correlated electron-emission in non-sequential double ionization. <i>Nature Communications</i> , 2012, 3, 813.	12.8	205
42	Attosecond Correlated Dynamics of Two Electrons Passing through a Transition State. <i>Physical Review Letters</i> , 2012, 108, 073003.	7.8	83
43	Review of attosecond resolved measurement and control via carrier-envelope phase tagging with above-threshold ionization. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 074003.	1.5	82
44	Confining the double ionization dynamics of argon to half of a laser cycle. <i>Journal of Physics: Conference Series</i> , 2012, 388, 032026.	0.4	0
45	Investigating temporal structure of FEL pulses by XUV pump-probe autocorrelation measurements. <i>Journal of Physics: Conference Series</i> , 2012, 388, 032011.	0.4	0
46	Time-resolved XUV-induced isomerization and H_3 formation in C_2H_4 cation. <i>Journal of Physics: Conference Series</i> , 2012, 388, 032014.	0.4	0
47	Controlled directional ion emission from several fragmentation channels of CO driven by a few-cycle laser field. <i>Physical Review A</i> , 2012, 86, .	2.5	20
48	Carrier-envelope phase-tagged imaging of the controlled electron acceleration from SiO_2 nanospheres in intense few-cycle laser fields. <i>New Journal of Physics</i> , 2012, 14, 075010.	2.9	37
49	Tracing nuclear-wave-packet dynamics in singly and doubly charged states of N_2 and O_2 with XUV-pump-XUV-probe experiments. <i>Physical Review A</i> , 2012, 86, .	2.5	42
50	Interference Carpets in Above-Threshold Ionization: From the Coulomb-Free to the Coulomb-Dominated Regime. <i>Physical Review Letters</i> , 2012, 108, 223601.	7.8	94
51	Characterization of Extreme Ultra-Violet Free-Electron Laser Pulses by Autocorrelation. <i>Springer Proceedings in Physics</i> , 2012, , 61-68.	0.2	8
52	Controlling the Spacing of Attosecond Pulse Trains from Relativistic Surface Plasmas. <i>Physical Review Letters</i> , 2011, 106, 185002.	7.8	51
53	High repetition rate plasma mirror for temporal contrast enhancement of terawatt femtosecond laser pulses by three orders of magnitude. <i>Applied Physics B: Lasers and Optics</i> , 2011, 103, 295-302.	2.2	46
54	Single-shot velocity-map imaging of attosecond light-field control at kilohertz rate. <i>Review of Scientific Instruments</i> , 2011, 82, 093109.	1.3	41

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55	Particle and x-ray generation by irradiation of gaseous and solid targets with a 100â€TW laser pulse. Plasma Physics and Controlled Fusion, 2009, 51, 124049.	2.1	14