

Ferenc Krausz

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

23,023
citations

71102

41
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93
all docs

93
docs citations

93
times ranked

7567
citing authors

#	ARTICLE	IF	CITATIONS
1	Attosecond physics. <i>Reviews of Modern Physics</i> , 2009, 81, 163-234.	45.6	4,682
2	Intense few-cycle laser fields: Frontiers of nonlinear optics. <i>Reviews of Modern Physics</i> , 2000, 72, 545-591.	45.6	2,724
3	Attosecond metrology. <i>Nature</i> , 2001, 414, 509-513.	27.8	2,531
4	Attosecond control of electronic processes by intense light fields. <i>Nature</i> , 2003, 421, 611-615.	27.8	1,493
5	Time-resolved atomic inner-shell spectroscopy. <i>Nature</i> , 2002, 419, 803-807.	27.8	1,315
6	Atomic transient recorder. <i>Nature</i> , 2004, 427, 817-821.	27.8	1,271
7	Delay in Photoemission. <i>Science</i> , 2010, 328, 1658-1662.	12.6	932
8	Nonlinear Optical Pulse Propagation in the Single-Cycle Regime. <i>Physical Review Letters</i> , 1997, 78, 3282-3285.	7.8	794
9	Direct Measurement of Light Waves. <i>Science</i> , 2004, 305, 1267-1269.	12.6	596
10	Optical-field-induced current in dielectrics. <i>Nature</i> , 2013, 493, 70-74.	27.8	592
11	Controlling dielectrics with the electric field of light. <i>Nature</i> , 2013, 493, 75-78.	27.8	489
12	Controlling the Phase Evolution of Few-Cycle Light Pulses. <i>Physical Review Letters</i> , 2000, 85, 740-743.	7.8	439
13	Attosecond metrology: from electron capture to future signal processing. <i>Nature Photonics</i> , 2014, 8, 205-213.	31.4	384
14	Optical attosecond pulses and tracking the nonlinear response of bound electrons. <i>Nature</i> , 2016, 530, 66-70.	27.8	346
15	Attosecond Control and Measurement: Lightwave Electronics. <i>Science</i> , 2007, 317, 769-775.	12.6	343
16	Third-generation femtosecond technology. <i>Optica</i> , 2014, 1, 45.	9.3	302
17	Route to phase control of ultrashort light pulses. <i>Optics Letters</i> , 1996, 21, 2008.	3.3	278
18	Attosecond physics at the nanoscale. <i>Reports on Progress in Physics</i> , 2017, 80, 054401.	20.1	274

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19	All-optical control and metrology of electron pulses. <i>Science</i> , 2016, 352, 429-433.	12.6	264
20	High-power sub-two-cycle mid-infrared pulses at 100â€¦MHz repetition rate. <i>Nature Photonics</i> , 2015, 9, 721-724.	31.4	248
21	Controlled near-field enhanced electron acceleration from dielectric nanospheres with intense few-cycle laser fields. <i>Nature Physics</i> , 2011, 7, 656-662.	16.7	210
22	1â€¦kW, 200â€¦mJ picosecond thin-disk laser system. <i>Optics Letters</i> , 2017, 42, 1381.	3.3	195
23	Attosecond nonlinear polarization and lightâ€“matter energy transfer in solids. <i>Nature</i> , 2016, 534, 86-90.	27.8	187
24	Phase-controlled amplification of few-cycle laser pulses. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2003, 9, 972-989.	2.9	178
25	Field-resolved infrared spectroscopy of biological systems. <i>Nature</i> , 2020, 577, 52-59.	27.8	170
26	Single-electron pulses for ultrafast diffraction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 19714-19719.	7.1	141
27	High-power 200 fs Kerr-lens mode-locked Yb:YAG thin-disk oscillator. <i>Optics Letters</i> , 2011, 36, 4746.	3.3	138
28	Laser streaking of free electrons at 25ÂkeV. <i>Nature Photonics</i> , 2014, 8, 52-57.	31.4	121
29	Electro-optic sampling of near-infrared waveforms. <i>Nature Photonics</i> , 2016, 10, 159-162.	31.4	108
30	Sub-fs electron pulses for ultrafast electron diffraction. <i>New Journal of Physics</i> , 2006, 8, 272-272.	2.9	97
31	A laser-driven nanosecond proton source for radiobiological studies. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	87
32	Multi-watt, multi-octave, mid-infrared femtosecond source. <i>Science Advances</i> , 2018, 4, eaaq1526.	10.3	86
33	Multi-mW, few-cycle mid-infrared continuum spanning from 500 to 2250â€¦cm ⁻¹ . <i>Light: Science and Applications</i> , 2018, 7, 17180-17180.	16.6	85
34	Attosecond optoelectronic field measurement in solids. <i>Nature Communications</i> , 2020, 11, 430.	12.8	81
35	Attosecond chronoscopy of electron scattering in dielectric nanoparticles. <i>Nature Physics</i> , 2017, 13, 766-770.	16.7	74
36	Sub-phonon-period compression of electron pulses for atomic diffraction. <i>Nature Communications</i> , 2015, 6, 8723.	12.8	73

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37	Attosecond nanoscale near-field sampling. <i>Nature Communications</i> , 2016, 7, 11717.	12.8	67
38	Compression of single-electron pulses with a microwave cavity. <i>New Journal of Physics</i> , 2012, 14, 073055.	2.9	66
39	Femtosecond single-electron diffraction. <i>Structural Dynamics</i> , 2014, 1, 034303.	2.3	60
40	The birth of attosecond physics and its coming of age. <i>Physica Scripta</i> , 2016, 91, 063011.	2.5	54
41	High-power, 1-ps, all-Yb:YAG thin-disk regenerative amplifier. <i>Optics Letters</i> , 2016, 41, 1126.	3.3	54
42	Atomic-scale diffractive imaging of sub-cycle electron dynamics in condensed matter. <i>Scientific Reports</i> , 2015, 5, 14581.	3.3	38
43	Directly diode-pumped, Kerr-lens mode-locked, few-cycle Cr:ZnSe oscillator. <i>Optics Express</i> , 2019, 27, 24445.	3.4	38
44	A concept for multiterawatt fibre lasers based on coherent pulse stacking in passive cavities. <i>Light: Science and Applications</i> , 2014, 3, e211-e211.	16.6	37
45	Stability of person-specific blood-based infrared molecular fingerprints opens up prospects for health monitoring. <i>Nature Communications</i> , 2021, 12, 1511.	12.8	35
46	Near-PHz-bandwidth, phase-stable continua generated from a Yb:YAG thin-disk amplifier. <i>Optics Express</i> , 2016, 24, 24337.	3.4	34
47	Electro-optic characterization of synthesized infrared-visible light fields. <i>Nature Communications</i> , 2022, 13, 1111.	12.8	24
48	Single-cycle infrared waveform control. <i>Nature Photonics</i> , 2022, 16, 512-518.	31.4	23
49	Multi-octave spanning, Watt-level ultrafast mid-infrared source. <i>JPhys Photonics</i> , 2019, 1, 044006.	4.6	21
50	Capturing atomic-scale carrier dynamics with electrons. <i>Chemical Physics Letters</i> , 2017, 683, 57-61.	2.6	19
51	Multi-octave, CEP-stable source for high-energy field synthesis. <i>Science Advances</i> , 2020, 6, eaax3408.	10.3	19
52	The speed limit of optoelectronics. <i>Nature Communications</i> , 2022, 13, 1620.	12.8	18
53	Reconstruction of Nanoscale Near Fields by Attosecond Streaking. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017, 23, 77-87.	2.9	16
54	Onset of charge interaction in strong-field photoemission from nanometric needle tips. <i>Nanophotonics</i> , 2021, 10, 3769-3775.	6.0	14

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55	Molecular Origin of Bloodâ€Based Infrared Spectroscopic Fingerprints**. Angewandte Chemie - International Edition, 2021, 60, 17060-17069.	13.8	13
56	Distributed Kerr Lens Mode-Locked Yb:YAG Thin-Disk Oscillator. Ultrafast Science, 2022, 2022, .	11.2	13
57	Broadband dispersive Ge/YbF3 mirrors for mid-infrared spectral range. Optics Letters, 2019, 44, 5210.	3.3	9
58	Quantum-Efficiency and Bandwidth Optimized Electro-Optic Sampling. , 2019, , .		5
59	Attosecond-Precision Dual-Oscillator Infrared Field-Resolved Spectroscopy Employing Electro-Optic Delay Tracking. , 2021, , .		4
60	Stack and dump: Peak-power scaling by coherent pulse addition in passive cavities. European Physical Journal: Special Topics, 2015, 224, 2573-2577.	2.6	3
61	Plasma mirror with few-cycle laser pulses. , 0, , .		2
62	From quantum transitions to electronic motions. Applied Physics B: Lasers and Optics, 2017, 123, 1.	2.2	2
63	Ultrakurze Laserpulse â€Erzeugung und Anwendung. Laser Technik Journal, 2005, 2, 27-33.	0.2	1
64	Carrier envelope phase noise in stabilized amplifier systems. , 0, , .		1
65	Field-Resolved Infrared Spectroscopy of Biological Samples. , 2019, , .		1
66	Field-Resolved Infrared Spectroscopy of Human Blood to Tackle Lung, Prostate and Breast Cancer Detection. , 2019, , .		1
67	Milliwatt-Level Multi-Octave Mid-Infrared Generation by a Diode-Pumped Cr:ZnS Oscillator. , 2021, , .		1
68	Carrier-envelope phase-stabilized high-power amplifier system. , 0, , .		0
69	High harmonic generation at high repetition rates. , 0, , .		0
70	Enhancement resonators for frequency combs. , 2006, , .		0
71	Development of a multi-terawatt few cycle optical parametric chirped pulse amplifier. , 2006, , .		0
72	High brightness laser diode array at 940 nm for Yb:YAG pumping. , 2007, , .		0

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73	Moderator and Short Introduction to the Walther Memorial Plenary. , 2007, , .		0
74	Moderator and short introduction. , 2007, , .		0
75	Multiterawatt three-cycle optical parametric chirped pulse amplifier. , 2007, , .		0
76	Multiterawatt Three-Cycle Optical Parametric Chirped Pulse Amplifier. , 2007, , .		0
77	Long-term Phase Stabilization of Intense Few-Cycle Pulses. , 2007, , .		0
78	High-Energy, High-Repetition Rate Ti:sapphire Chirped Pulse Oscillators. , 2007, , .		0
79	Stronger seed for a multiterawatt few-cycle pulse OPCPA. , 2007, , .		0
80	Controlled electron acceleration from dielectric nanospheres in intense few-cycle laser fields. , 2011, , .		0
81	Schnelles Schalten mit Licht. Physik in Unserer Zeit, 2016, 47, 142-148.	0.0	0
82	Towards attosecond XUV-pump XUV-probe measurements in the 100-eV region. , 2017, , .		0
83	Towards multi-mJ, OPCPA-based field synthesizer. , 2017, , .		0
84	From Quantum Transitions to Electronic Motions. , 2018, , 59-70.		0
85	On the Role of the Phase in Field-Resolved Spectroscopy of Molecular Vibrations. , 2019, , .		0
86	Achromatic Interferometric Subtraction of Optical Fields. , 2019, , .		0
87	High-Power 50-MHz Source of Waveform-Stable, Multi-Octave Infrared Pulses. , 2019, , .		0
88	High-Power Single-Cycle Mid-Infrared Transients Generated via Intra-Pulse Difference-Frequency Mixing at 2 μm . , 2019, , .		0
89	Molecular Origin of Blood-Based Infrared Spectroscopic Fingerprints**. Angewandte Chemie, 2021, 133, 17197-17206.	2.0	0
90	InnenrÄ¼cktitelbild: Molecular Origin of Blood-Based Infrared Spectroscopic Fingerprints (Angew.) Tj ETQq0 0 0 ggBT /Overlock 10 Tf		0