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 h-index	123424 61 g-index
93 all docs	93 docs citations	93 times ranked	7567 citing authors

#	Article	IF	Citations
1	Distributed Kerr Lens Mode-Locked Yb:YAG Thin-Disk Oscillator. Ultrafast Science, 2022, 2022, .	11.2	13
2	The speed limit of optoelectronics. Nature Communications, 2022, 13, 1620.	12.8	18
3	Electro-optic characterization of synthesized infrared-visible light fields. Nature Communications, 2022, 13, 1111.	12.8	24
4	Single-cycle infrared waveform control. Nature Photonics, 2022, 16, 512-518.	31.4	23
5	Stability of person-specific blood-based infrared molecular fingerprints opens up prospects for health monitoring. Nature Communications, 2021, 12, 1511.	12.8	35
6	Molecular Origin of Bloodâ€Based Infrared Spectroscopic Fingerprints**. Angewandte Chemie, 2021, 133, 17197-17206.	2.0	0
7	Molecular Origin of Bloodâ€Based Infrared Spectroscopic Fingerprints**. Angewandte Chemie - International Edition, 2021, 60, 17060-17069.	13.8	13
8	Attosecond-Precision Dual-Oscillator Infrared Field-Resolved Spectroscopy Employing Electro-Optic Delay Tracking. , 2021, , .		4
9	Milliwatt-Level Multi-Octave Mid-Infrared Generation by a Diode-Pumped Cr:ZnS Oscillator. , 2021, , .		1
10	InnenrÃ¼cktitelbild: Molecular Origin of Bloodâ€Based Infrared Spectroscopic Fingerprints (Angew.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.0	0
11	Onset of charge interaction in strong-field photoemission from nanometric needle tips. Nanophotonics, 2021, 10, 3769-3775.	6.0	14
12	Field-resolved infrared spectroscopy of biological systems. Nature, 2020, 577, 52-59.	27.8	170
13	Multi-octave, CEP-stable source for high-energy field synthesis. Science Advances, 2020, 6, eaax3408.	10.3	19
14	Attosecond optoelectronic field measurement in solids. Nature Communications, 2020, 11, 430.	12.8	81
15	Multi-octave spanning, Watt-level ultrafast mid-infrared source. JPhys Photonics, 2019, 1, 044006.	4.6	21
16	On the Role of the Phase in Field-Resolved Spectroscopy of Molecular Vibrations. , 2019, , .		0
17	Achromatic Interferometric Subtraction of Optical Fields. , 2019, , .		0
18	High-Power 50-MHz Source of Waveform-Stable, Multi-Octave Infrared Pulses. , 2019, , .		0

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19	Quantum-Efficiency and Bandwidth Optimized Electro-Optic Sampling. , 2019, , .		5
20	High-Power Single-Cycle Mid-Infrared Transients Generated via Intra-Pulse Difference-Frequency Mixing at 2 Î¼m. , 2019, , .		0
21	Field-Resolved Infrared Spectroscopy of Biological Samples. , 2019, , .		1
22	Field-Resolved Infrared Spectroscopy of Human Blood to Tackle Lung, Prostate and Breast Cancer Detection. , 2019, , .		1
23	Directly diode-pumped, Kerr-lens mode-locked, few-cycle Cr:ZnSe oscillator. Optics Express, 2019, 27, 24445.	3.4	38
24	Broadband dispersive Ge/YbF3 mirrors for mid-infrared spectral range. Optics Letters, 2019, 44, 5210.	3.3	9
25	Multi-mW, few-cycle mid-infrared continuum spanning from 500 to 2250â€‰cmâˆ’1. Light: Science and Applications, 2018, 7, 17180-17180.	16.6	85
26	From Quantum Transitions to Electronic Motions. , 2018, , 59-70.		0
27	Multi-watt, multi-octave, mid-infrared femtosecond source. Science Advances, 2018, 4, eaaq1526.	10.3	86
28	From quantum transitions to electronic motions. Applied Physics B: Lasers and Optics, 2017, 123, 1.	2.2	2
29	Attosecond physics at the nanoscale. Reports on Progress in Physics, 2017, 80, 054401.	20.1	274
30	Reconstruction of Nanoscale Near Fields by Attosecond Streaking. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 77-87.	2.9	16
31	Attosecond chronoscopy of electron scattering in dielectric nanoparticles. Nature Physics, 2017, 13, 766-770.	16.7	74
32	Capturing atomic-scale carrier dynamics with electrons. Chemical Physics Letters, 2017, 683, 57-61.	2.6	19
33	Towards attosecond XUV-pump XUV-probe measurements in the 100-eV region. , 2017, , .		0
34	1â€‰â€‰kW, 200â€‰â€‰mJ picosecond thin-disk laser system. Optics Letters, 2017, 42, 1381.	3.3	195
35	Towards multi-mJ, OPCPA-based field synthesizer. , 2017, , .		0
36	Near-PHz-bandwidth, phase-stable continua generated from a Yb:YAG thin-disk amplifier. Optics Express, 2016, 24, 24337.	3.4	34

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37	Schnelles Schalten mit Licht. Physik in Unserer Zeit, 2016, 47, 142-148.	0.0	0
38	Attosecond nanoscale near-field sampling. Nature Communications, 2016, 7, 11717.	12.8	67
39	The birth of attosecond physics and its coming of age. Physica Scripta, 2016, 91, 063011.	2.5	54
40	Attosecond nonlinear polarization and lightâ€"matter energy transfer in solids. Nature, 2016, 534, 86-90.	27.8	187
41	All-optical control and metrology of electron pulses. Science, 2016, 352, 429-433.	12.6	264
42	Electro-optic sampling of near-infrared waveforms. Nature Photonics, 2016, 10, 159-162.	31.4	108
43	Optical attosecond pulses and tracking the nonlinear response of bound electrons. Nature, 2016, 530, 66-70.	27.8	346
44	High-power, 1-ps, all-Yb:YAG thin-disk regenerative amplifier. Optics Letters, 2016, 41, 1126.	3.3	54
45	Sub-phonon-period compression of electron pulses for atomic diffraction. Nature Communications, 2015, 6, 8723.	12.8	73
46	Atomic-scale diffractive imaging of sub-cycle electron dynamics in condensed matter. Scientific Reports, 2015, 5, 14581.	3.3	38
47	High-power sub-two-cycle mid-infrared pulses at 100â€...MHz repetition rate. Nature Photonics, 2015, 9, 721-724.	31.4	248
48	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
49	A concept for multiterawatt fibre lasers based on coherent pulse stacking in passive cavities. Light: Science and Applications, 2014, 3, e211-e211.	16.6	37
50	Attosecond metrology: from electron capture to future signal processing. Nature Photonics, 2014, 8, 205-213.	31.4	384
51	Laser streaking of free electrons at 25Â keV. Nature Photonics, 2014, 8, 52-57.	31.4	121
52	Femtosecond single-electron diffraction. Structural Dynamics, 2014, 1, 034303.	2.3	60
53	Third-generation femtosecond technology. Optica, 2014, 1, 45.	9.3	302
54	Optical-field-induced current in dielectrics. Nature, 2013, 493, 70-74.	27.8	592

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55	Controlling dielectrics with the electric field of light. Nature, 2013, 493, 75-78.	27.8	489
56	Compression of single-electron pulses with a microwave cavity. New Journal of Physics, 2012, 14, 073055.	2.9	66
57	A laser-driven nanosecond proton source for radiobiological studies. Applied Physics Letters, 2012, 101, .	3.3	87
58	High-power 200 fs Kerr-lens mode-locked Yb:YAG thin-disk oscillator. Optics Letters, 2011, 36, 4746.	3.3	138
59	Controlled near-field enhanced electron acceleration from dielectric nanospheres with intense few-cycle laser fields. Nature Physics, 2011, 7, 656-662.	16.7	210
60	Controlled electron acceleration from dielectric nanospheres in intense few-cycle laser fields. , 2011, , .		0
61	Delay in Photoemission. Science, 2010, 328, 1658-1662.	12.6	932
62	Single-electron pulses for ultrafast diffraction. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19714-19719.	7.1	141
63	Attosecond physics. Reviews of Modern Physics, 2009, 81, 163-234.	45.6	4,682
64	High brightness laser diode array at 940 nm for Yb:YAG pumping. , 2007, , .		0
65	Moderator and Short Introduction to the Walther Memorial Plenary. , 2007, , .		0
66	Moderator and short introduction. , 2007, , .		0
67	Multiterawatt three-cycle optical parametric chirped pulse amplifier. , 2007, , .		0
68	Multiterawatt Three-Cycle Optical Parametric Chirped Pulse Amplifier. , 2007, , .		0
69	Long-term Phase Stabilization of Intense Few-Cycle Pulses. , 2007, , .		0
70	High-Energy, High-Repetition Rate Ti:sapphire Chirped Pulse Oscillators. , 2007, , .		0
71	Stronger seed for a multiterawatt few-cycle pulse OPCPA. , 2007, , .		0
72	Attosecond Control and Measurement: Lightwave Electronics. Science, 2007, 317, 769-775.	12.6	343

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73	Enhancement resonators for frequency combs. , 2006, , .		0
74	Sub-fs electron pulses for ultrafast electron diffraction. New Journal of Physics, 2006, 8, 272-272.	2.9	97
75	Development of a multi-terawatt few cycle optical parametric chirped pulse amplifier. , 2006, , .		0
76	Ultrakurze Laserpulse â€“ Erzeugung und Anwendung. Laser Technik Journal, 2005, 2, 27-33.	0.2	1
77	Atomic transient recorder. Nature, 2004, 427, 817-821.	27.8	1,271
78	Direct Measurement of Light Waves. Science, 2004, 305, 1267-1269.	12.6	596
79	Phase-controlled amplification of few-cycle laser pulses. IEEE Journal of Selected Topics in Quantum Electronics, 2003, 9, 972-989.	2.9	178
80	Attosecond control of electronic processes by intense light fields. Nature, 2003, 421, 611-615.	27.8	1,493
81	Time-resolved atomic inner-shell spectroscopy. Nature, 2002, 419, 803-807.	27.8	1,315
82	Attosecond metrology. Nature, 2001, 414, 509-513.	27.8	2,531
83	Intense few-cycle laser fields: Frontiers of nonlinear optics. Reviews of Modern Physics, 2000, 72, 545-591.	45.6	2,724
84	Controlling the Phase Evolution of Few-Cycle Light Pulses. Physical Review Letters, 2000, 85, 740-743.	7.8	439
85	Nonlinear Optical Pulse Propagation in the Single-Cycle Regime. Physical Review Letters, 1997, 78, 3282-3285.	7.8	794
86	Route to phase control of ultrashort light pulses. Optics Letters, 1996, 21, 2008.	3.3	278
87	Carrier-envelope phase-stabilized high-power amplifier system. , 0, , .		0
88	Carrier envelope phase noise in stabilized amplifier systems. , 0, , .		1
89	High harmonic generation at high repetition rates. , 0, , .		0
90	Plasma mirror with few-cycle laser pulses. , 0, , .		2