

# Henry Kapteyn

## List of Publications by Year in descending order

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604  
papers

29,697  
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docs citations

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times ranked

11825  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bright Coherent Ultrahigh Harmonics in the keV X-ray Regime from Mid-Infrared Femtosecond Lasers. <i>Science</i> , 2012, 336, 1287-1291.	6.0	1,537
2	Phase-Matched Generation of Coherent Soft X-rays. <i>Science</i> , 1998, 280, 1412-1415.	6.0	852
3	Generation of Coherent Soft X Rays at 2.7 nm Using High Harmonics. <i>Physical Review Letters</i> , 1997, 79, 2967-2970.	2.9	685
4	Shaped-pulse optimization of coherent emission of high-harmonic soft X-rays. <i>Nature</i> , 2000, 406, 164-166.	13.7	681
5	High-Harmonic Generation of Attosecond Pulses in the "Single-Cycle" Regime. <i>Physical Review Letters</i> , 1997, 78, 1251-1254.	2.9	583
6	The attosecond nonlinear optics of bright coherent X-ray generation. <i>Nature Photonics</i> , 2010, 4, 822-832.	15.6	523
7	High power ultrafast lasers. <i>Review of Scientific Instruments</i> , 1998, 69, 1207-1223.	0.6	519
8	Short-Pulse Laser Damage in Transparent Materials as a Function of Pulse Duration. <i>Physical Review Letters</i> , 1999, 82, 3883-3886.	2.9	506
9	Generation of 11-fs pulses from a self-mode-locked Ti:sapphire laser. <i>Optics Letters</i> , 1993, 18, 977.	1.7	408
10	Generation of bright phase-matched circularly-polarized extreme ultraviolet high harmonics. <i>Nature Photonics</i> , 2015, 9, 99-105.	15.6	403
11	Quasi-ballistic thermal transport from nanoscale interfaces observed using ultrafast coherent soft X-ray beams. <i>Nature Materials</i> , 2010, 9, 26-30.	13.3	378
12	90 GW peak power few-cycle mid-infrared pulses from an optical parametric amplifier. <i>Optics Letters</i> , 2011, 36, 2755.	1.7	372
13	Generation of Spatially Coherent Light at Extreme Ultraviolet Wavelengths. <i>Science</i> , 2002, 297, 376-378.	6.0	365
14	Ultrafast X-ray Pulses from Laser-Produced Plasmas. <i>Science</i> , 1991, 251, 531-536.	6.0	364
15	Time-Resolved X-Ray Diffraction from Coherent Phonons during a Laser-Induced Phase Transition. <i>Physical Review Letters</i> , 2000, 84, 111-114.	2.9	345
16	Phase matching of high harmonic generation in the soft and hard X-ray regions of the spectrum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 10516-10521.	3.3	334
17	Coherent Soft X-ray Generation in the Water Window with Quasi-Phase Matching. <i>Science</i> , 2003, 302, 95-98.	6.0	330
18	Enhanced High-Harmonic Generation Using 25 fs Laser Pulses. <i>Physical Review Letters</i> , 1996, 76, 752-755.	2.9	326

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19	Ultrafast magnetization enhancement in metallic multilayers driven by superdiffusive spin current. Nature Communications, 2012, 3, 1037.	5.8	324
20	Phase Matching of High-Order Harmonics in Hollow Waveguides. Physical Review Letters, 1999, 83, 2187-2190.	2.9	321
21	Time-Resolved Dynamics in N <sub>2</sub> O <sub>4</sub> Probed Using High Harmonic Generation. Science, 2008, 322, 1207-1211.	6.0	317
22	Bright, Coherent, Ultrafast Soft X-Ray Harmonics Spanning the Water Window from a Tabletop Light Source. Physical Review Letters, 2010, 105, 173901.	2.9	306
23	Quasi-phase-matched generation of coherent extreme-ultraviolet light. Nature, 2003, 421, 51-54.	13.7	300
24	High-Density Plasmas Produced by Ultrafast Laser Pulses. Physical Review Letters, 1989, 62, 155-158.	2.9	288
25	Lensless Diffractive Imaging Using Tabletop Coherent High-Harmonic Soft-X-Ray Beams. Physical Review Letters, 2007, 99, 098103.	2.9	267
26	Time-domain classification of charge-density-wave insulators. Nature Communications, 2012, 3, 1069.	5.8	263
27	Pulse compression by use of deformable mirrors. Optics Letters, 1999, 24, 493.	1.7	258
28	Phase-Coherent Optical Pulse Synthesis from Separate Femtosecond Lasers. Science, 2001, 293, 1286-1289.	6.0	241
29	Roadmap of ultrafast x-ray atomic and molecular physics. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 032003.	0.6	240
30	Bright circularly polarized soft X-ray high harmonics for X-ray magnetic circular dichroism. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14206-14211.	3.3	235
31	Pulse evolution in a broad-bandwidth Ti:sapphire laser. Optics Letters, 1994, 19, 1149.	1.7	229
32	Phase Modulation of Ultrashort Light Pulses using Molecular Rotational Wave Packets. Physical Review Letters, 2001, 88, 013903.	2.9	222
33	Controlling the Competition between Optically Induced Ultrafast Spin-Flip Scattering and Spin Transport in Magnetic Multilayers. Physical Review Letters, 2013, 110, 197201.	2.9	218
34	Non-collinear generation of angularly isolated circularly polarized high harmonics. Nature Photonics, 2015, 9, 743-750.	15.6	216
35	Quasi-phase-matching and quantum-path control of high-harmonic generation using counterpropagating light. Nature Physics, 2007, 3, 270-275.	6.5	211
36	Probing the timescale of the exchange interaction in a ferromagnetic alloy. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4792-4797.	3.3	210

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37	Intense 8-fs pulse generation in the deep ultraviolet. <i>Optics Letters</i> , 1999, 24, 697.	1.7	203
38	Elliptically Polarized High-Order Harmonic Emission from Molecules in Linearly Polarized Laser Fields. <i>Physical Review Letters</i> , 2009, 102, 073902.	2.9	203
39	Generation of extreme-ultraviolet beams with time-varying orbital angular momentum. <i>Science</i> , 2019, 364, .	6.0	198
40	Ultrafast Demagnetization Dynamics at the $M$ Edges of Magnetic Elements Observed Using a Tabletop High-Harmonic Soft X-Ray Source. <i>Physical Review Letters</i> , 2009, 103, 257402.	2.9	197
41	Direct time-domain observation of attosecond final-state lifetimes in photoemission from solids. <i>Science</i> , 2016, 353, 62-67.	6.0	181
42	Soft X-ray-Driven Femtosecond Molecular Dynamics. <i>Science</i> , 2007, 317, 1374-1378.	6.0	178
43	Prepulse energy suppression for high-energy ultrashort pulses using self-induced plasma shuttering. <i>Optics Letters</i> , 1991, 16, 490.	1.7	174
44	16-fs, $1/\sqrt{4}$ ultraviolet pulses generated by third-harmonic conversion in air. <i>Optics Letters</i> , 1996, 21, 665.	1.7	173
45	Monitoring molecular dynamics using coherent electrons from high harmonic generation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 13279-13285.	3.3	173
46	Direct Observation of Surface Chemistry Using Ultrafast Soft-X-Ray Pulses. <i>Physical Review Letters</i> , 2001, 87, .	2.9	172
47	Direct Visualization of Laser-Driven Electron Multiple Scattering and Tunneling Distance in Strong-Field Ionization. <i>Physical Review Letters</i> , 2012, 109, 073004.	2.9	172
48	A new regime of nanoscale thermal transport: Collective diffusion increases dissipation efficiency. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4846-4851.	3.3	170
49	Ultraviolet surprise: Efficient soft x-ray high-harmonic generation in multiply ionized plasmas. <i>Science</i> , 2015, 350, 1225-1231.	6.0	165
50	Ultra-high 22 nm resolution coherent diffractive imaging using a desktop 13 nm high harmonic source. <i>Optics Express</i> , 2011, 19, 22470.	1.7	164
51	Temporal phase control of soft-x-ray harmonic emission. <i>Physical Review A</i> , 1998, 58, R30-R33.	1.0	163
52	Ultrabroadband phase-matched optical parametric generation in the ultraviolet by use of guided waves. <i>Optics Letters</i> , 1997, 22, 1565.	1.7	160
53	Probing Impulsive Strain Propagation with X-Ray Pulses. <i>Physical Review Letters</i> , 2001, 86, 3072-3075.	2.9	160
54	Subwavelength coherent imaging of periodic samples using a 13.5-nm tabletop high-harmonic light source. <i>Nature Photonics</i> , 2017, 11, 259-263.	15.6	159

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55	Laser Based Angle-Resolved Photoemission, the Sudden Approximation, and Quasiparticle-Like Spectral Peaks in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\delta$ . Physical Review Letters, 2006, 96, 017005.	2.9	157
56	Extended phase matching of high harmonics driven by mid-infrared light. Optics Letters, 2008, 33, 2128.	1.7	156
57	High numerical aperture tabletop soft x-ray diffraction microscopy with 70-nm resolution. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 24-27.	3.3	156
58	Three-dimensional structure determination from a single view. Nature, 2010, 463, 214-217.	13.7	153
59	Laser-Assisted Photoelectric Effect from Surfaces. Physical Review Letters, 2006, 97, 113604.	2.9	151
60	Molecular Recollision Interferometry in High Harmonic Generation. Physical Review Letters, 2008, 100, 073902.	2.9	147
61	0.2-TW laser system at 1 $\mu$ m. Optics Letters, 1997, 22, 1256.	1.7	144
62	Efficient coupling of high-intensity subpicosecond laser pulses into solids. Applied Physics Letters, 1993, 62, 1068-1070.	1.5	141
63	Harnessing Attosecond Science in the Quest for Coherent X-rays. Science, 2007, 317, 775-778.	6.0	141
64	Multiterawatt, 100-fs laser. Optics Letters, 1991, 16, 1406.	1.7	140
65	Amplification of 26-fs, 2-TW pulses near the gain-narrowing limit in Ti:sapphire. Optics Letters, 1995, 20, 64.	1.7	136
66	Polarization control of isolated high-harmonic pulses. Nature Photonics, 2018, 12, 349-354.	15.6	136
67	Tabletop nanometer extreme ultraviolet imaging in an extended reflection mode using coherent Fresnel ptychography. Optica, 2014, 1, 39.	4.8	133
68	Control of Electron Localization in Deuterium Molecular Ions using an Attosecond Pulse Train and a Many-Cycle Infrared Pulse. Physical Review Letters, 2010, 104, 023001.	2.9	129
69	Strong-field ionization with two-color circularly polarized laser fields. Physical Review A, 2015, 91, .	1.0	124
70	Nonadiabatic Effects in High-Harmonic Generation with Ultrashort Pulses. Physical Review Letters, 1996, 77, 1743-1746.	2.9	123
71	Zeptosecond High Harmonic keV X-Ray Waveforms Driven by Midinfrared Laser Pulses. Physical Review Letters, 2013, 111, 033002.	2.9	123
72	High-efficiency, single-stage 7-kHz high-average-power ultrafast laser system. Optics Letters, 2001, 26, 465.	1.7	122

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73	High-Order Harmonic Generation up to 250 eV from Highly Ionized Argon. <i>Physical Review Letters</i> , 2004, 92, 033001.	2.9	122
74	Adaptive pulse compression for transform-limited 15-fs high-energy pulse generation. <i>Optics Letters</i> , 2000, 25, 587.	1.7	121
75	Near- and Extended-Edge X-Ray-Absorption Fine-Structure Spectroscopy Using Ultrafast Coherent High-Order Harmonic Supercontinua. <i>Physical Review Letters</i> , 2018, 120, 093002.	2.9	121
76	Controlling the polarization and vortex charge of attosecond high-harmonic beams via simultaneous spin-orbit momentum conservation. <i>Nature Photonics</i> , 2019, 13, 123-130.	15.6	120
77	Band structure evolution during the ultrafast ferromagnetic-paramagnetic phase transition in cobalt. <i>Science Advances</i> , 2017, 3, e1602094.	4.7	119
78	Extreme Nonlinear Optics: Coherent X rays from Lasers. <i>Physics Today</i> , 2005, 58, 39-46.	0.3	118
79	Ti:sapphire amplifier producing millijoule-level, 21-fs pulses at 1 kHz. <i>Optics Letters</i> , 1995, 20, 2000.	1.7	117
80	Attosecond vacuum UV coherent control of molecular dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 912-917.	3.3	116
81	Generation of bright isolated attosecond soft X-ray pulses driven by multicycle midinfrared lasers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E2361-7.	3.3	116
82	Subfemtosecond timing jitter between two independent, actively synchronized, mode-locked lasers. <i>Optics Letters</i> , 2002, 27, 312.	1.7	114
83	Critical behavior within 20 fs drives the out-of-equilibrium laser-induced magnetic phase transition in nickel. <i>Science Advances</i> , 2018, 4, eaap9744.	4.7	107
84	17-fs pulses from a self-mode-locked Ti:sapphire laser. <i>Optics Letters</i> , 1992, 17, 1289.	1.7	105
85	Coherent learning control of vibrational motion in room temperature molecular gases. <i>Chemical Physics Letters</i> , 2001, 344, 333-338.	1.2	105
86	Controlling Nonsequential Double Ionization in Two-Color Circularly Polarized Femtosecond Laser Fields. <i>Physical Review Letters</i> , 2016, 117, 133201.	2.9	104
87	Self-Compression of Ultrashort Pulses through Ionization-Induced Spatiotemporal Reshaping. <i>Physical Review Letters</i> , 2004, 93, 173902.	2.9	103
88	Tomographic reconstruction of circularly polarized high-harmonic fields: 3D attosecond metrology. <i>Science Advances</i> , 2016, 2, e1501333.	4.7	103
89	Helicity-Selective Enhancement and Polarization Control of Attosecond High Harmonic Waveforms Driven by Bichromatic Circularly Polarized Laser Fields. <i>Physical Review Letters</i> , 2017, 119, 063201.	2.9	102
90	Fourth-order dispersion-limited solitary pulses. <i>Optics Letters</i> , 1994, 19, 1465.	1.7	100

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91	Controlling electron-ion rescattering in two-color circularly polarized femtosecond laser fields. <i>Physical Review A</i> , 2016, 93, .	1.0	100
92	Probing and controlling non-Born-Oppenheimer dynamics in highly excited molecular ions. <i>Nature Physics</i> , 2012, 8, 232-237.	6.5	98
93	Generation of Broadband VUV Light Using Third-Order Cascaded Processes. <i>Physical Review Letters</i> , 2001, 87, 013601.	2.9	96
94	Observing the Creation of Electronic Feshbach Resonances in Soft X-ray-Induced O <sub>2</sub> Dissociation. <i>Science</i> , 2008, 322, 1081-1085.	6.0	96
95	Time- and angle-resolved photoemission spectroscopy with optimized high-harmonic pulses using frequency-doubled Ti:Sapphire lasers. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2014, 195, 231-236.	0.8	95
96	Nonresonant Control of Multimode Molecular Wave Packets at Room Temperature. <i>Physical Review Letters</i> , 2002, 88, 033001.	2.9	94
97	Tabletop soft-x-ray Fourier transform holography with 50 nm resolution. <i>Optics Letters</i> , 2009, 34, 1618.	1.7	93
98	Ultrafast optically induced spin transfer in ferromagnetic alloys. <i>Science Advances</i> , 2020, 6, eaay8717.	4.7	93
99	Generation of transform-limited 32-fs pulses from a self-mode-locked Ti:sapphire laser. <i>Optics Letters</i> , 1992, 17, 139.	1.7	91
100	Generation of 21-fs millijoule-energy pulses by use of Ti:sapphire. <i>Optics Letters</i> , 1994, 19, 126.	1.7	90
101	Measurement of 10-fs laser pulses. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1996, 2, 575-585.	1.9	89
102	Recent advances in ultrafast X-ray sources. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180384.	1.6	89
103	Direct Measurement of the Angular Dependence of the Single-Photon Ionization of Aligned N <sub>2</sub> and CO <sub>2</sub> . <i>Journal of Physical Chemistry A</i> , 2008, 112, 9382-9386.	1.1	88
104	Direct Measurement of Core-Level Relaxation Dynamics on a Surface-Adsorbate System. <i>Physical Review Letters</i> , 2008, 101, 046101.	2.9	88
105	Ultrafast Demagnetization Measurements Using Extreme Ultraviolet Light: Comparison of Electronic and Magnetic Contributions. <i>Physical Review X</i> , 2012, 2, .	2.8	88
106	Quasi-phase-matching of momentum and energy in nonlinear optical processes. <i>Nature Photonics</i> , 2010, 4, 570-575.	15.6	87
107	Direct diode-pumped Kerr-lens mode-locked Ti:sapphire laser. <i>Optics Express</i> , 2012, 20, 13677.	1.7	86
108	Observation of a Short-Wavelength Laser Pumped by Auger Decay. <i>Physical Review Letters</i> , 1986, 57, 2939-2942.	2.9	85

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109	Angle-resolved photoemission spectroscopy with a femtosecond high harmonic light source using a two-dimensional imaging electron analyzer. <i>Review of Scientific Instruments</i> , 2007, 78, 083105.	0.6	83
110	Probing Thermomechanics at the Nanoscale: Impulsively Excited Pseudosurface Acoustic Waves in Hypersonic Phononic Crystals. <i>Nano Letters</i> , 2011, 11, 4126-4133.	4.5	83
111	Demonstration of a sub-picosecond x-ray streak camera. <i>Applied Physics Letters</i> , 1996, 69, 133-135.	1.5	81
112	High contrast 3D imaging of surfaces near the wavelength limit using tabletop EUV ptychography. <i>Ultramicroscopy</i> , 2015, 158, 98-104.	0.8	81
113	Quasi-phase matching of high-harmonics and attosecond pulses in modulated waveguides. <i>Optics Express</i> , 2000, 7, 362.	1.7	80
114	Ultrafast extreme ultraviolet holography: dynamic monitoring of surface deformation. <i>Optics Letters</i> , 2007, 32, 286.	1.7	80
115	Attosecond Time-Scale Intra-atomic Phase Matching of High Harmonic Generation. <i>Physical Review Letters</i> , 2001, 86, 5458-5461.	2.9	79
116	Laser-assisted photoemission from surfaces. <i>Physical Review A</i> , 2008, 77, .	1.0	79
117	Simplified setup for high-resolution spectroscopy that uses ultrashort pulses. <i>Optics Letters</i> , 2003, 28, 361.	1.7	78
118	X-ray streak camera with 2 ps response. <i>Applied Physics Letters</i> , 1990, 56, 1948-1950.	1.5	77
119	IR-assisted ionization of helium by attosecond extreme ultraviolet radiation. <i>New Journal of Physics</i> , 2010, 12, 013008.	1.2	77
120	Photoionization-pumped x-ray lasers using ultrashort-pulse excitation. <i>Applied Optics</i> , 1992, 31, 4931.	2.1	73
121	Stoner versus Heisenberg: Ultrafast exchange reduction and magnon generation during laser-induced demagnetization. <i>Physical Review B</i> , 2016, 94, .	1.1	72
122	Characterizing isolated attosecond pulses from hollow-core waveguides using multi-cycle driving pulses. <i>Optics Express</i> , 2009, 17, 4611.	1.7	71
123	Visualizing electron rearrangement in space and time during the transition from a molecule to atoms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 20219-20222.	3.3	70
124	Schemes for generation of isolated attosecond pulses of pure circular polarization. <i>Physical Review A</i> , 2016, 93, .	1.0	70
125	High numerical aperture reflection mode coherent diffraction microscopy using off-axis apertured illumination. <i>Optics Express</i> , 2012, 20, 19050.	1.7	67
126	Ultrafast x-ray diffraction using a streak-camera detector in averaging mode. <i>Optics Letters</i> , 1997, 22, 1012.	1.7	65

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127	High-Order Harmonic Generation from Ions in a Capillary Discharge. <i>Physical Review Letters</i> , 2006, 96, 203001.	2.9	65
128	Experimental setup for low-energy laser-based angle resolved photoemission spectroscopy. <i>Review of Scientific Instruments</i> , 2007, 78, 053905.	0.6	64
129	Sub-10-femtosecond active synchronization of two passively mode-locked Ti:sapphire oscillators. <i>Physical Review A</i> , 2001, 64, .	1.0	63
130	Ultrashort X-ray pulses. <i>Applied Physics B: Lasers and Optics</i> , 1994, 58, 261-266.	1.1	61
131	Second-harmonic generation and the conservation of spatiotemporal orbital angular momentum of light. <i>Nature Photonics</i> , 2021, 15, 608-613.	15.6	60
132	Generation and propagation of attosecond x-ray pulses in gaseous media. <i>Physical Review A</i> , 1998, 57, R2285-R2288.	1.0	59
133	Controlling the XUV Transparency of Helium Using Two-Pathway Quantum Interference. <i>Physical Review Letters</i> , 2011, 106, 193008.	2.9	58
134	Impulsive stimulated Raman scattering of molecular vibrations using nonlinear pulse shaping. <i>Chemical Physics Letters</i> , 2003, 374, 326-333.	1.2	56
135	Efficient reflection gratings for pulse compression and dispersion compensation of femtosecond pulses. <i>Optics Letters</i> , 2006, 31, 3363.	1.7	56
136	High-frequency surface acoustic wave propagation in nanostructures characterized by coherent extreme ultraviolet beams. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	56
137	Extracting the phase of high-order harmonic emission from a molecule using transient alignment in mixed samples. <i>Physical Review A</i> , 2007, 76, .	1.0	55
138	Distinguishing attosecond electron-electron scattering and screening in transition metals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E5300-E5307.	3.3	55
139	Nondestructive, high-resolution, chemically specific 3D nanostructure characterization using phase-sensitive EUV imaging reflectometry. <i>Science Advances</i> , 2021, 7, .	4.7	55
140	The 2021 ultrafast spectroscopic probes of condensed matter roadmap. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 353001.	0.7	55
141	Ultrashort optical waveform measurements using frequency-resolved optical gating. <i>Optics Letters</i> , 1995, 20, 743.	1.7	54
142	Nanoscale transient gratings excited and probed by extreme ultraviolet femtosecond pulses. <i>Science Advances</i> , 2019, 5, eaaw5805.	4.7	54
143	Attosecond time-scale feedback control of coherent X-ray generation. <i>Chemical Physics</i> , 2001, 267, 277-289.	0.9	53
144	Space-time focusing of femtosecond pulses in a Ti:sapphire laser. <i>Optics Letters</i> , 1995, 20, 309.	1.7	52

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145	High flux coherent super-continuum soft X-ray source driven by a single-stage, 10mJ, Ti:sapphire amplifier-pumped OPA. <i>Optics Express</i> , 2014, 22, 6194.	1.7	52
146	Sub-10-fs operation of Kerr-lens mode-locked lasers. <i>Optics Letters</i> , 1996, 21, 1493.	1.7	51
147	Learning from learning algorithms: Application to attosecond dynamics of high-harmonic generation. <i>Physical Review A</i> , 2004, 70, .	1.0	51
148	Grating-Assisted Phase Matching in Extreme Nonlinear Optics. <i>Physical Review Letters</i> , 2007, 99, 053902.	2.9	51
149	Self-amplified photo-induced gap quenching in a correlated electron material. <i>Nature Communications</i> , 2016, 7, 12902.	5.8	50
150	Highly coherent light at 13 nm generated by use of quasi-phase-matched high-harmonic generation. <i>Optics Letters</i> , 2004, 29, 1357.	1.7	48
151	11-W average power Ti:sapphire amplifier system using downchirped pulse amplification. <i>Optics Letters</i> , 2004, 29, 2665.	1.7	48
152	High-harmonic generation in periodically poled waveguides. <i>Optica</i> , 2017, 4, 1538.	4.8	48
153	Generation and control of ultrashort-wavelength two-dimensional surface acoustic waves at nanoscale interfaces. <i>Physical Review B</i> , 2012, 85, .	1.1	47
154	Revealing the Nature of the Ultrafast Magnetic Phase Transition in Ni by Correlating Extreme Ultraviolet Magneto-Optic and Photoemission Spectroscopies. <i>Physical Review Letters</i> , 2018, 121, 077204.	2.9	47
155	Direct light-induced spin transfer between different elements in a spintronic Heusler material via femtosecond laser excitation. <i>Science Advances</i> , 2020, 6, eaaz1100.	4.7	47
156	Ptychographic hyperspectral spectromicroscopy with an extreme ultraviolet high harmonic comb. <i>Optics Express</i> , 2016, 24, 18745.	1.7	45
157	Observation and Control of Shock Waves in Individual Nanoplasmas. <i>Physical Review Letters</i> , 2014, 112, 115004.	2.9	43
158	Ultrafast electron calorimetry uncovers a new long-lived metastable state in $1T\text{-TaSe}_2$ mediated by mode-selective electron-phonon coupling. <i>Science Advances</i> , 2019, 5, eaav4449.	4.7	43
159	Design and implementation of a TW-class high-average power laser system. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1998, 4, 395-406.	1.9	42
160	Quantitative Chemically Specific Coherent Diffractive Imaging of Reactions at Buried Interfaces with Few Nanometer Precision. <i>Nano Letters</i> , 2016, 16, 5444-5450.	4.5	42
161	Enhanced High Harmonic Generation from Multiply Ionized Argon above 500 eV through Laser Pulse Self-Compression. <i>Physical Review Letters</i> , 2009, 103, 143901.	2.9	41
162	Helicity-selective phase-matching and quasi-phase matching of circularly polarized high-order harmonics: towards chiral attosecond pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 123501.	0.6	41

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163	Ultrafast element-specific magnetization dynamics of complex magnetic materials on a table-top. Journal of Electron Spectroscopy and Related Phenomena, 2013, 189, 164-170.	0.8	40
164	Photoelectron Spectroscopy of CdSe Nanocrystals in the Gas Phase: A Direct Measure of the Evanescent Electron Wave Function of Quantum Dots. Nano Letters, 2013, 13, 2924-2930.	4.5	40
165	Electronic initiation and optimization of nonlinear polarization evolution mode-locking in a fiber laser. Optics Express, 2017, 25, 33216.	1.7	40
166	Generation and application of ultrafast X-ray sources. IEEE Journal of Quantum Electronics, 1989, 25, 2417-2422.	1.0	39
167	Prepulse suppression for high-energy ultrashort pulses using self-induced plasma shuttering from a fluid target. Optics Letters, 1993, 18, 134.	1.7	39
168	Spatially coherent, phase matched, high-order harmonic EUV beams at 50 kHz. Optics Express, 2009, 17, 17376.	1.7	38
169	High harmonics with spatially varying ellipticity. Optica, 2018, 5, 479.	4.8	38
170	Auger-pumped short-wavelength lasers in xenon and krypton. Physical Review A, 1988, 37, 2033-2038.	1.0	37
171	Hot-electron-driven charge transfer processes on O <sub>2</sub> /Pt(111) surface probed by ultrafast extreme-ultraviolet pulses. Physical Review B, 2002, 66, .	1.1	37
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