

Henry Kapteyn

List of Publications by Year in descending order

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604
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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. | 12.6 | 1,537 |
| 2 | Phase-Matched Generation of Coherent Soft X-rays. <i>Science</i> , 1998, 280, 1412-1415. | 12.6 | 852 |
| 3 | Generation of Coherent Soft X Rays at 2.7 nm Using High Harmonics. <i>Physical Review Letters</i> , 1997, 79, 2967-2970. | 7.8 | 685 |
| 4 | Shaped-pulse optimization of coherent emission of high-harmonic soft X-rays. <i>Nature</i> , 2000, 406, 164-166. | 27.8 | 681 |
| 5 | High-Harmonic Generation of Attosecond Pulses in the "Single-Cycle" Regime. <i>Physical Review Letters</i> , 1997, 78, 1251-1254. | 7.8 | 583 |
| 6 | The attosecond nonlinear optics of bright coherent X-ray generation. <i>Nature Photonics</i> , 2010, 4, 822-832. | 31.4 | 523 |
| 7 | High power ultrafast lasers. <i>Review of Scientific Instruments</i> , 1998, 69, 1207-1223. | 1.3 | 519 |
| 8 | Short-Pulse Laser Damage in Transparent Materials as a Function of Pulse Duration. <i>Physical Review Letters</i> , 1999, 82, 3883-3886. | 7.8 | 506 |
| 9 | Generation of 11-fs pulses from a self-mode-locked Ti:sapphire laser. <i>Optics Letters</i> , 1993, 18, 977. | 3.3 | 408 |
| 10 | Generation of bright phase-matched circularly-polarized extreme ultraviolet high harmonics. <i>Nature Photonics</i> , 2015, 9, 99-105. | 31.4 | 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. | 27.5 | 378 |
| 12 | 90 GW peak power few-cycle mid-infrared pulses from an optical parametric amplifier. <i>Optics Letters</i> , 2011, 36, 2755. | 3.3 | 372 |
| 13 | Generation of Spatially Coherent Light at Extreme Ultraviolet Wavelengths. <i>Science</i> , 2002, 297, 376-378. | 12.6 | 365 |
| 14 | Ultrafast X-ray Pulses from Laser-Produced Plasmas. <i>Science</i> , 1991, 251, 531-536. | 12.6 | 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. | 7.8 | 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. | 7.1 | 334 |
| 17 | Coherent Soft X-ray Generation in the Water Window with Quasi-Phase Matching. <i>Science</i> , 2003, 302, 95-98. | 12.6 | 330 |
| 18 | Enhanced High-Harmonic Generation Using 25 fs Laser Pulses. <i>Physical Review Letters</i> , 1996, 76, 752-755. | 7.8 | 326 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Ultrafast magnetization enhancement in metallic multilayers driven by superdiffusive spin current. Nature Communications, 2012, 3, 1037. | 12.8 | 324 |
| 20 | Phase Matching of High-Order Harmonics in Hollow Waveguides. Physical Review Letters, 1999, 83, 2187-2190. | 7.8 | 321 |
| 21 | Time-Resolved Dynamics in N ₂ O ₄ Probed Using High Harmonic Generation. Science, 2008, 322, 1207-1211. | 12.6 | 317 |
| 22 | Bright, Coherent, Ultrafast Soft X-Ray Harmonics Spanning the Water Window from a Tabletop Light Source. Physical Review Letters, 2010, 105, 173901. | 7.8 | 306 |
| 23 | Quasi-phase-matched generation of coherent extreme-ultraviolet light. Nature, 2003, 421, 51-54. | 27.8 | 300 |
| 24 | High-Density Plasmas Produced by Ultrafast Laser Pulses. Physical Review Letters, 1989, 62, 155-158. | 7.8 | 288 |
| 25 | Lensless Diffractive Imaging Using Tabletop Coherent High-Harmonic Soft-X-Ray Beams. Physical Review Letters, 2007, 99, 098103. | 7.8 | 267 |
| 26 | Time-domain classification of charge-density-wave insulators. Nature Communications, 2012, 3, 1069. | 12.8 | 263 |
| 27 | Pulse compression by use of deformable mirrors. Optics Letters, 1999, 24, 493. | 3.3 | 258 |
| 28 | Phase-Coherent Optical Pulse Synthesis from Separate Femtosecond Lasers. Science, 2001, 293, 1286-1289. | 12.6 | 241 |
| 29 | Roadmap of ultrafast x-ray atomic and molecular physics. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 032003. | 1.5 | 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. | 7.1 | 235 |
| 31 | Pulse evolution in a broad-bandwidth Ti:sapphire laser. Optics Letters, 1994, 19, 1149. | 3.3 | 229 |
| 32 | Phase Modulation of Ultrashort Light Pulses using Molecular Rotational Wave Packets. Physical Review Letters, 2001, 88, 013903. | 7.8 | 222 |
| 33 | Controlling the Competition between Optically Induced Ultrafast Spin-Flip Scattering and Spin Transport in Magnetic Multilayers. Physical Review Letters, 2013, 110, 197201. | 7.8 | 218 |
| 34 | Non-collinear generation of angularly isolated circularly polarized high harmonics. Nature Photonics, 2015, 9, 743-750. | 31.4 | 216 |
| 35 | Quasi-phase-matching and quantum-path control of high-harmonic generation using counterpropagating light. Nature Physics, 2007, 3, 270-275. | 16.7 | 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. | 7.1 | 210 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Intense 8-fs pulse generation in the deep ultraviolet. <i>Optics Letters</i> , 1999, 24, 697. | 3.3 | 203 |
| 38 | Elliptically Polarized High-Order Harmonic Emission from Molecules in Linearly Polarized Laser Fields. <i>Physical Review Letters</i> , 2009, 102, 073902. | 7.8 | 203 |
| 39 | Generation of extreme-ultraviolet beams with time-varying orbital angular momentum. <i>Science</i> , 2019, 364, . | 12.6 | 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. | 7.8 | 197 |
| 41 | Direct time-domain observation of attosecond final-state lifetimes in photoemission from solids. <i>Science</i> , 2016, 353, 62-67. | 12.6 | 181 |
| 42 | Soft X-ray-Driven Femtosecond Molecular Dynamics. <i>Science</i> , 2007, 317, 1374-1378. | 12.6 | 178 |
| 43 | Prepulse energy suppression for high-energy ultrashort pulses using self-induced plasma shuttering. <i>Optics Letters</i> , 1991, 16, 490. | 3.3 | 174 |
| 44 | 16-fs, $1-\frac{1}{4}$ ultraviolet pulses generated by third-harmonic conversion in air. <i>Optics Letters</i> , 1996, 21, 665. | 3.3 | 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. | 7.1 | 173 |
| 46 | Direct Observation of Surface Chemistry Using Ultrafast Soft-X-Ray Pulses. <i>Physical Review Letters</i> , 2001, 87, . | 7.8 | 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. | 7.8 | 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. | 7.1 | 170 |
| 49 | Ultraviolet surprise: Efficient soft x-ray high-harmonic generation in multiply ionized plasmas. <i>Science</i> , 2015, 350, 1225-1231. | 12.6 | 165 |
| 50 | Ultrahigh 22 nm resolution coherent diffractive imaging using a desktop 13 nm high harmonic source. <i>Optics Express</i> , 2011, 19, 22470. | 3.4 | 164 |
| 51 | Temporal phase control of soft-x-ray harmonic emission. <i>Physical Review A</i> , 1998, 58, R30-R33. | 2.5 | 163 |
| 52 | Ultrabroadband phase-matched optical parametric generation in the ultraviolet by use of guided waves. <i>Optics Letters</i> , 1997, 22, 1565. | 3.3 | 160 |
| 53 | Probing Impulsive Strain Propagation with X-Ray Pulses. <i>Physical Review Letters</i> , 2001, 86, 3072-3075. | 7.8 | 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. | 31.4 | 159 |

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| 55 | Laser Based Angle-Resolved Photoemission, the Sudden Approximation, and Quasiparticle-Like Spectral Peaks in Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ . Physical Review Letters, 2006, 96, 017005. | 7.8 | 157 |
| 56 | Extended phase matching of high harmonics driven by mid-infrared light. Optics Letters, 2008, 33, 2128. | 3.3 | 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. | 7.1 | 156 |
| 58 | Three-dimensional structure determination from a single view. Nature, 2010, 463, 214-217. | 27.8 | 153 |
| 59 | Laser-Assisted Photoelectric Effect from Surfaces. Physical Review Letters, 2006, 97, 113604. | 7.8 | 151 |
| 60 | Molecular Recollision Interferometry in High Harmonic Generation. Physical Review Letters, 2008, 100, 073902. | 7.8 | 147 |
| 61 | 0.2-TW laser system at 1 μ m. Optics Letters, 1997, 22, 1256. | 3.3 | 144 |
| 62 | Efficient coupling of high-intensity subpicosecond laser pulses into solids. Applied Physics Letters, 1993, 62, 1068-1070. | 3.3 | 141 |
| 63 | Harnessing Attosecond Science in the Quest for Coherent X-rays. Science, 2007, 317, 775-778. | 12.6 | 141 |
| 64 | Multiterawatt, 100-fs laser. Optics Letters, 1991, 16, 1406. | 3.3 | 140 |
| 65 | Amplification of 26-fs, 2-TW pulses near the gain-narrowing limit in Ti:sapphire. Optics Letters, 1995, 20, 64. | 3.3 | 136 |
| 66 | Polarization control of isolated high-harmonic pulses. Nature Photonics, 2018, 12, 349-354. | 31.4 | 136 |
| 67 | Tabletop nanometer extreme ultraviolet imaging in an extended reflection mode using coherent Fresnel ptychography. Optica, 2014, 1, 39. | 9.3 | 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. | 7.8 | 129 |
| 69 | Strong-field ionization with two-color circularly polarized laser fields. Physical Review A, 2015, 91, . | 2.5 | 124 |
| 70 | Nonadiabatic Effects in High-Harmonic Generation with Ultrashort Pulses. Physical Review Letters, 1996, 77, 1743-1746. | 7.8 | 123 |
| 71 | Zeptosecond High Harmonic keV X-Ray Waveforms Driven by Midinfrared Laser Pulses. Physical Review Letters, 2013, 111, 033002. | 7.8 | 123 |
| 72 | High-efficiency, single-stage 7-kHz high-average-power ultrafast laser system. Optics Letters, 2001, 26, 465. | 3.3 | 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. | 7.8 | 122 |
| 74 | Adaptive pulse compression for transform-limited 15-fs high-energy pulse generation. <i>Optics Letters</i> , 2000, 25, 587. | 3.3 | 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. | 7.8 | 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. | 31.4 | 120 |
| 77 | Band structure evolution during the ultrafast ferromagnetic-paramagnetic phase transition in cobalt. <i>Science Advances</i> , 2017, 3, e1602094. | 10.3 | 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. | 3.3 | 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. | 7.1 | 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. | 7.1 | 116 |
| 82 | Subfemtosecond timing jitter between two independent, actively synchronized, mode-locked lasers. <i>Optics Letters</i> , 2002, 27, 312. | 3.3 | 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. | 10.3 | 107 |
| 84 | 17-fs pulses from a self-mode-locked Ti:sapphire laser. <i>Optics Letters</i> , 1992, 17, 1289. | 3.3 | 105 |
| 85 | Coherent learning control of vibrational motion in room temperature molecular gases. <i>Chemical Physics Letters</i> , 2001, 344, 333-338. | 2.6 | 105 |
| 86 | Controlling Nonsequential Double Ionization in Two-Color Circularly Polarized Femtosecond Laser Fields. <i>Physical Review Letters</i> , 2016, 117, 133201. | 7.8 | 104 |
| 87 | Self-Compression of Ultrashort Pulses through Ionization-Induced Spatiotemporal Reshaping. <i>Physical Review Letters</i> , 2004, 93, 173902. | 7.8 | 103 |
| 88 | Tomographic reconstruction of circularly polarized high-harmonic fields: 3D attosecond metrology. <i>Science Advances</i> , 2016, 2, e1501333. | 10.3 | 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. | 7.8 | 102 |
| 90 | Fourth-order dispersion-limited solitary pulses. <i>Optics Letters</i> , 1994, 19, 1465. | 3.3 | 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, . | 2.5 | 100 |
| 92 | Probing and controlling non-Born-Oppenheimer dynamics in highly excited molecular ions. <i>Nature Physics</i> , 2012, 8, 232-237. | 16.7 | 98 |
| 93 | Generation of Broadband VUV Light Using Third-Order Cascaded Processes. <i>Physical Review Letters</i> , 2001, 87, 013601. | 7.8 | 96 |
| 94 | Observing the Creation of Electronic Feshbach Resonances in Soft X-ray-Induced O ₂ Dissociation. <i>Science</i> , 2008, 322, 1081-1085. | 12.6 | 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. | 1.7 | 95 |
| 96 | Nonresonant Control of Multimode Molecular Wave Packets at Room Temperature. <i>Physical Review Letters</i> , 2002, 88, 033001. | 7.8 | 94 |
| 97 | Tabletop soft-x-ray Fourier transform holography with 50 nm resolution. <i>Optics Letters</i> , 2009, 34, 1618. | 3.3 | 93 |
| 98 | Ultrafast optically induced spin transfer in ferromagnetic alloys. <i>Science Advances</i> , 2020, 6, eaay8717. | 10.3 | 93 |
| 99 | Generation of transform-limited 32-fs pulses from a self-mode-locked Ti:sapphire laser. <i>Optics Letters</i> , 1992, 17, 139. | 3.3 | 91 |
| 100 | Generation of 21-fs millijoule-energy pulses by use of Ti:sapphire. <i>Optics Letters</i> , 1994, 19, 126. | 3.3 | 90 |
| 101 | Measurement of 10-fs laser pulses. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1996, 2, 575-585. | 2.9 | 89 |
| 102 | Recent advances in ultrafast X-ray sources. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180384. | 3.4 | 89 |
| 103 | Direct Measurement of the Angular Dependence of the Single-Photon Ionization of Aligned N ₂ and CO ₂ . <i>Journal of Physical Chemistry A</i> , 2008, 112, 9382-9386. | 2.5 | 88 |
| 104 | Direct Measurement of Core-Level Relaxation Dynamics on a Surface-Adsorbate System. <i>Physical Review Letters</i> , 2008, 101, 046101. | 7.8 | 88 |
| 105 | Ultrafast Demagnetization Measurements Using Extreme Ultraviolet Light: Comparison of Electronic and Magnetic Contributions. <i>Physical Review X</i> , 2012, 2, . | 8.9 | 88 |
| 106 | Quasi-phase-matching of momentum and energy in nonlinear optical processes. <i>Nature Photonics</i> , 2010, 4, 570-575. | 31.4 | 87 |
| 107 | Direct diode-pumped Kerr-lens mode-locked Ti:sapphire laser. <i>Optics Express</i> , 2012, 20, 13677. | 3.4 | 86 |
| 108 | Observation of a Short-Wavelength Laser Pumped by Auger Decay. <i>Physical Review Letters</i> , 1986, 57, 2939-2942. | 7.8 | 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. | 1.3 | 83 |
| 110 | Probing Thermomechanics at the Nanoscale: Impulsively Excited Pseudosurface Acoustic Waves in Hypersonic Phononic Crystals. <i>Nano Letters</i> , 2011, 11, 4126-4133. | 9.1 | 83 |
| 111 | Demonstration of a sub-picosecond x-ray streak camera. <i>Applied Physics Letters</i> , 1996, 69, 133-135. | 3.3 | 81 |
| 112 | High contrast 3D imaging of surfaces near the wavelength limit using tabletop EUV ptychography. <i>Ultramicroscopy</i> , 2015, 158, 98-104. | 1.9 | 81 |
| 113 | Quasi-phase matching of high-harmonics and attosecond pulses in modulated waveguides. <i>Optics Express</i> , 2000, 7, 362. | 3.4 | 80 |
| 114 | Ultrafast extreme ultraviolet holography: dynamic monitoring of surface deformation. <i>Optics Letters</i> , 2007, 32, 286. | 3.3 | 80 |
| 115 | Attosecond Time-Scale Intra-atomic Phase Matching of High Harmonic Generation. <i>Physical Review Letters</i> , 2001, 86, 5458-5461. | 7.8 | 79 |
| 116 | Laser-assisted photoemission from surfaces. <i>Physical Review A</i> , 2008, 77, . | 2.5 | 79 |
| 117 | Simplified setup for high-resolution spectroscopy that uses ultrashort pulses. <i>Optics Letters</i> , 2003, 28, 361. | 3.3 | 78 |
| 118 | X-ray streak camera with 2 ps response. <i>Applied Physics Letters</i> , 1990, 56, 1948-1950. | 3.3 | 77 |
| 119 | IR-assisted ionization of helium by attosecond extreme ultraviolet radiation. <i>New Journal of Physics</i> , 2010, 12, 013008. | 2.9 | 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, . | 3.2 | 72 |
| 122 | Characterizing isolated attosecond pulses from hollow-core waveguides using multi-cycle driving pulses. <i>Optics Express</i> , 2009, 17, 4611. | 3.4 | 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. | 7.1 | 70 |
| 124 | Schemes for generation of isolated attosecond pulses of pure circular polarization. <i>Physical Review A</i> , 2016, 93, . | 2.5 | 70 |
| 125 | High numerical aperture reflection mode coherent diffraction microscopy using off-axis apertured illumination. <i>Optics Express</i> , 2012, 20, 19050. | 3.4 | 67 |
| 126 | Ultrafast x-ray diffraction using a streak-camera detector in averaging mode. <i>Optics Letters</i> , 1997, 22, 1012. | 3.3 | 65 |

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|-----|---|------|-----------|
| 127 | High-Order Harmonic Generation from Ions in a Capillary Discharge. <i>Physical Review Letters</i> , 2006, 96, 203001. | 7.8 | 65 |
| 128 | Experimental setup for low-energy laser-based angle resolved photoemission spectroscopy. <i>Review of Scientific Instruments</i> , 2007, 78, 053905. | 1.3 | 64 |
| 129 | Sub-10-femtosecond active synchronization of two passively mode-locked Ti:sapphire oscillators. <i>Physical Review A</i> , 2001, 64, . | 2.5 | 63 |
| 130 | Ultrashort X-ray pulses. <i>Applied Physics B: Lasers and Optics</i> , 1994, 58, 261-266. | 2.2 | 61 |
| 131 | Second-harmonic generation and the conservation of spatiotemporal orbital angular momentum of light. <i>Nature Photonics</i> , 2021, 15, 608-613. | 31.4 | 60 |
| 132 | Generation and propagation of attosecond x-ray pulses in gaseous media. <i>Physical Review A</i> , 1998, 57, R2285-R2288. | 2.5 | 59 |
| 133 | Controlling the XUV Transparency of Helium Using Two-Pathway Quantum Interference. <i>Physical Review Letters</i> , 2011, 106, 193008. | 7.8 | 58 |
| 134 | Impulsive stimulated Raman scattering of molecular vibrations using nonlinear pulse shaping. <i>Chemical Physics Letters</i> , 2003, 374, 326-333. | 2.6 | 56 |
| 135 | Efficient reflection gratings for pulse compression and dispersion compensation of femtosecond pulses. <i>Optics Letters</i> , 2006, 31, 3363. | 3.3 | 56 |
| 136 | High-frequency surface acoustic wave propagation in nanostructures characterized by coherent extreme ultraviolet beams. <i>Applied Physics Letters</i> , 2009, 94, . | 3.3 | 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, . | 2.5 | 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. | 7.1 | 55 |
| 139 | Nondestructive, high-resolution, chemically specific 3D nanostructure characterization using phase-sensitive EUV imaging reflectometry. <i>Science Advances</i> , 2021, 7, . | 10.3 | 55 |
| 140 | The 2021 ultrafast spectroscopic probes of condensed matter roadmap. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 353001. | 1.8 | 55 |
| 141 | Ultrashort optical waveform measurements using frequency-resolved optical gating. <i>Optics Letters</i> , 1995, 20, 743. | 3.3 | 54 |
| 142 | Nanoscale transient gratings excited and probed by extreme ultraviolet femtosecond pulses. <i>Science Advances</i> , 2019, 5, eaaw5805. | 10.3 | 54 |
| 143 | Attosecond time-scale feedback control of coherent X-ray generation. <i>Chemical Physics</i> , 2001, 267, 277-289. | 1.9 | 53 |
| 144 | Space-time focusing of femtosecond pulses in a Ti:sapphire laser. <i>Optics Letters</i> , 1995, 20, 309. | 3.3 | 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. | 3.4 | 52 |
| 146 | Sub-10-fs operation of Kerr-lens mode-locked lasers. <i>Optics Letters</i> , 1996, 21, 1493. | 3.3 | 51 |
| 147 | Learning from learning algorithms: Application to attosecond dynamics of high-harmonic generation. <i>Physical Review A</i> , 2004, 70, . | 2.5 | 51 |
| 148 | Grating-Assisted Phase Matching in Extreme Nonlinear Optics. <i>Physical Review Letters</i> , 2007, 99, 053902. | 7.8 | 51 |
| 149 | Self-amplified photo-induced gap quenching in a correlated electron material. <i>Nature Communications</i> , 2016, 7, 12902. | 12.8 | 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. | 3.3 | 48 |
| 151 | 11-W average power Ti:sapphire amplifier system using downchirped pulse amplification. <i>Optics Letters</i> , 2004, 29, 2665. | 3.3 | 48 |
| 152 | High-harmonic generation in periodically poled waveguides. <i>Optica</i> , 2017, 4, 1538. | 9.3 | 48 |
| 153 | Generation and control of ultrashort-wavelength two-dimensional surface acoustic waves at nanoscale interfaces. <i>Physical Review B</i> , 2012, 85, . | 3.2 | 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. | 7.8 | 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. | 10.3 | 47 |
| 156 | Ptychographic hyperspectral spectromicroscopy with an extreme ultraviolet high harmonic comb. <i>Optics Express</i> , 2016, 24, 18745. | 3.4 | 45 |
| 157 | Observation and Control of Shock Waves in Individual Nanoplasmas. <i>Physical Review Letters</i> , 2014, 112, 115004. | 7.8 | 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. | 10.3 | 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. | 2.9 | 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. | 9.1 | 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. | 7.8 | 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. | 1.5 | 41 |

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