

Hamed Merdji

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94
papers

3,694
citations

28
h-index

59
g-index

117
ext. papers

4,098
ext. citations

5
avg, IF

4.12
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 94 | Attosecond synchronization of high-harmonic soft x-rays. <i>Science</i> , 2003 , 302, 1540-3 | 33.3 | 670 |
| 93 | A high-intensity highly coherent soft X-ray femtosecond laser seeded by a high harmonic beam. <i>Nature</i> , 2004 , 431, 426-9 | 50.4 | 244 |
| 92 | Injection of harmonics generated in gas in a free-electron laser providing intense and coherent extreme-ultraviolet light. <i>Nature Physics</i> , 2008 , 4, 296-300 | 16.2 | 239 |
| 91 | Extreme-ultraviolet high-order harmonic pulses in the microjoule range. <i>Physical Review A</i> , 2002 , 66, | 2.6 | 183 |
| 90 | Coherent control of attosecond emission from aligned molecules. <i>Nature Physics</i> , 2008 , 4, 545-549 | 16.2 | 179 |
| 89 | Auger electron angular distribution of double core-hole states in the molecular reference frame. <i>Physical Review Letters</i> , 2010 , 105, 083004 | 7.4 | 149 |
| 88 | Single-shot diffractive imaging with a table-top femtosecond soft x-ray laser-harmonics source. <i>Physical Review Letters</i> , 2009 , 103, 028104 | 7.4 | 147 |
| 87 | Time-resolved pump-probe experiments at the LCLS. <i>Optics Express</i> , 2010 , 18, 17620-30 | 3.3 | 146 |
| 86 | Laser-induced ultrafast demagnetization in the presence of a nanoscale magnetic domain network. <i>Nature Communications</i> , 2012 , 3, 999 | 17.4 | 121 |
| 85 | Observation of laser driven supercritical radiative shock precursors. <i>Physical Review Letters</i> , 2004 , 92, 225001 | 7.4 | 99 |
| 84 | Extreme ultraviolet interferometry measurements with high-order harmonics. <i>Optics Letters</i> , 2000 , 25, 135-7 | 3 | 79 |
| 83 | Optimization of attosecond pulse generation. <i>Physical Review Letters</i> , 2004 , 93, 163901 | 7.4 | 77 |
| 82 | Isolated attosecond pulses using a detuned second-harmonic field. <i>Optics Letters</i> , 2007 , 32, 3134-6 | 3 | 73 |
| 81 | Frequency-Domain Interferometry in the XUV with High-Order Harmonics. <i>Physical Review Letters</i> , 1999 , 83, 5483-5486 | 7.4 | 72 |
| 80 | Generation of attosecond x-ray pulses with a multicycle two-color enhanced self-amplified spontaneous emission scheme. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2009 , 12, | | 68 |
| 79 | Single-shot femtosecond x-ray holography using extended references. <i>Physical Review Letters</i> , 2010 , 105, 093901 | 7.4 | 67 |
| 78 | High harmonic XUV spectral phase interferometry for direct electric-field reconstruction. <i>Physical Review Letters</i> , 2005 , 94, 173903 | 7.4 | 67 |

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|----|--|-----|----|
| 77 | Opacity Studies of Iron in the 150 eV Temperature Range. <i>Astrophysical Journal, Supplement Series</i> , 2000 , 127, 275-281 | 8 | 64 |
| 76 | Submicrometer digital in-line holographic microscopy at 32 nm with high-order harmonics. <i>Optics Letters</i> , 2006 , 31, 3095-7 | 3 | 61 |
| 75 | Exciton-exciton interactions in CdWO ₄ irradiated by intense femtosecond vacuum ultraviolet pulses. <i>Physical Review B</i> , 2009 , 79, | 3.3 | 44 |
| 74 | A laser experiment for studying radiative shocks in astrophysics. <i>Laser and Particle Beams</i> , 2002 , 20, 263-268 | 2.6 | 44 |
| 73 | Microfocusing of the FERMI@Elettra FEL beam with a KB active optics system: Spot size predictions by application of the WISE code. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013 , 710, 131-138 | 1.2 | 40 |
| 72 | Hot-electron relaxation in quartz using high-order harmonics. <i>Physical Review B</i> , 2000 , 61, 9883-9886 | 3.3 | 40 |
| 71 | Reconstruction of attosecond pulse trains using an adiabatic phase expansion. <i>Physical Review Letters</i> , 2005 , 95, 243901 | 7.4 | 39 |
| 70 | Extreme ultraviolet Fourier-transform spectroscopy with high order harmonics. <i>Physical Review Letters</i> , 2005 , 95, 223903 | 7.4 | 35 |
| 69 | Macroscopic control of high-order harmonics quantum-path components for the generation of attosecond pulses. <i>Physical Review A</i> , 2006 , 74, | 2.6 | 31 |
| 68 | Temporal confinement of the harmonic emission through polarization gating. <i>European Physical Journal D</i> , 2003 , 26, 79-82 | 1.3 | 30 |
| 67 | Radiative heating of B, Al and Ni thin foils at 150 eV temperatures. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2000 , 65, 117-133 | 2.1 | 30 |
| 66 | Optimization of the wave front of high order harmonics. <i>European Physical Journal D</i> , 2008 , 48, 459-463 | 1.3 | 28 |
| 65 | Absorption spectroscopy of a radiatively heated samarium plasma. <i>Physical Review E</i> , 1998 , 57, 1042-1046 | 4.4 | 28 |
| 64 | High-order-harmonic generation in gas with a flat-top laser beam. <i>Physical Review A</i> , 2011 , 84, | 2.6 | 26 |
| 63 | Evolution of angular distributions in two-colour, few-photon ionization of helium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008 , 41, 051002 | 1.3 | 24 |
| 62 | Molecular frame Auger electron energy spectrum from N ₂ . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012 , 45, 055601 | 1.3 | 21 |
| 61 | Femtosecond isomerization dynamics in the ethylene cation measured in an EUV-pump NIR-probe configuration. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009 , 42, 081002 | 1.3 | 21 |
| 60 | Generation of attosecond pulses in molecular nitrogen. <i>European Physical Journal D</i> , 2006 , 40, 305-311 | 1.3 | 21 |

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|----|--|------|----|
| 59 | Self-optimization of plasmonic nanoantennas in strong femtosecond fields. <i>Optica</i> , 2017 , 4, 1038 | 8.6 | 20 |
| 58 | All semiconductor enhanced high-harmonic generation from a single nanostructured cone. <i>Scientific Reports</i> , 2019 , 9, 5663 | 4.9 | 19 |
| 57 | Impact of wave front and coherence optimization in coherent diffractive imaging. <i>Optics Express</i> , 2013 , 21, 11441-7 | 3.3 | 18 |
| 56 | Orbital angular momentum from semiconductor high-order harmonics. <i>Optics Letters</i> , 2019 , 44, 546-549 | 3 | 17 |
| 55 | Opacity measurements of a radiatively heated boron sample. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1997 , 58, 783-789 | 2.1 | 16 |
| 54 | Demonstration of a spatial filtering amplifier for high-order harmonics. <i>Optics Letters</i> , 2007 , 32, 1498-500 | 3 | 16 |
| 53 | Seeding experiments at SPARC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008 , 593, 132-136 | 1.2 | 14 |
| 52 | Tracking the ultrafast XUV optical properties of x-ray free-electron-laser heated matter with high-order harmonics. <i>Physical Review A</i> , 2018 , 97, | 2.6 | 13 |
| 51 | Broadband coherent diffractive imaging. <i>Nature Photonics</i> , 2020 , 14, 618-622 | 33.9 | 12 |
| 50 | K-shell spectroscopy of radiatively heated aluminium. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1997 , 58, 773-781 | 2.1 | 11 |
| 49 | Generating Ultrabroadband Deep-UV Radiation and Sub-10 nm Gap by Hybrid-Morphology Gold Antennas. <i>Nano Letters</i> , 2019 , 19, 4779-4786 | 11.5 | 10 |
| 48 | Fourier transform holography with high harmonic spectra for attosecond imaging applications. <i>Optics Letters</i> , 2015 , 40, 3205-8 | 3 | 10 |
| 47 | Surface modification of polymethylmethacrylate irradiated with 60 fs single laser pulses. <i>Radiation Physics and Chemistry</i> , 2009 , 78, S71-S74 | 2.5 | 10 |
| 46 | Complete momentum analysis of multi-photon photo-double ionization of xenon by XUV and infrared photons. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008 , 41, 065601 | 1.3 | 10 |
| 45 | LTE absorption spectroscopy of an X-ray heated boron plasma. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2001 , 69, 217-229 | 2.1 | 10 |
| 44 | High Harmonics and Isolated Attosecond Pulses from MgO. <i>Physical Review Applied</i> , 2021 , 15, | 4.3 | 10 |
| 43 | Nano-plasmonic near field phase matching of attosecond pulses. <i>Scientific Reports</i> , 2017 , 7, 6356 | 4.9 | 9 |
| 42 | Scaling of the generation of high-order harmonics in large gas media with focal length. <i>Physical Review A</i> , 2011 , 84, | 2.6 | 9 |

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| 41 | Subcycle dynamics in the laser ionization of molecules. <i>Physical Review A</i> , 2007 , 76, | 2.6 | 9 |
| 40 | CEP-stable high-energy ytterbium-doped fiber amplifier. <i>Optics Letters</i> , 2019 , 44, 3909-3912 | 3 | 9 |
| 39 | Ultrafast electron relaxation measurements on SiO ₂ using high-order harmonics generation. <i>Laser and Particle Beams</i> , 2000 , 18, 489-494 | 0.9 | 8 |
| 38 | Spectral-phase interferometry for direct electric-field reconstruction applied to seeded extreme-ultraviolet free-electron lasers. <i>Optics Express</i> , 2015 , 23, 17665-74 | 3.3 | 7 |
| 37 | Shot-to-shot intensity and wavefront stability of high-harmonic generation. <i>Applied Optics</i> , 2015 , 54, 4745-9 | 1.7 | 7 |
| 36 | Coherence properties of high-order harmonics: Application to high-density laser-plasma diagnostic. <i>Laser and Particle Beams</i> , 2000 , 18, 495-502 | 0.9 | 7 |
| 35 | Characterization of a high resolution transmission grating. <i>Optics Communications</i> , 2000 , 173, 37-43 | 2 | 7 |
| 34 | Computed stereo lensless X-ray imaging. <i>Nature Photonics</i> , 2019 , 13, 449-453 | 33.9 | 6 |
| 33 | Impact of Plasmon-Induced Atoms Migration in Harmonic Generation. <i>ACS Photonics</i> , 2018 , 5, 1208-1214 | 6.3 | 6 |
| 32 | Spatial quality improvement of a Ti:Sapphire laser beam by modal filtering. <i>Applied Physics B: Lasers and Optics</i> , 2015 , 118, 47-60 | 1.9 | 5 |
| 31 | Resonant-Plasmon-Assisted Subwavelength Ablation by a Femtosecond Oscillator. <i>Physical Review Applied</i> , 2018 , 9, | 4.3 | 5 |
| 30 | Internal frequency conversion extreme ultraviolet interferometer using mutual coherence properties of two high-order-harmonic sources. <i>Review of Scientific Instruments</i> , 2009 , 80, 113102 | 1.7 | 5 |
| 29 | Time resolved luminescence of solids excited by femtosecond VUV pulses and synchrotron radiation. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007 , 4, 870-876 | | 5 |
| 28 | Application of frequency-domain interferometry in the extreme-ultraviolet range by use of high-order harmonics. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003 , 20, 171 | 1.7 | 5 |
| 27 | Overview on HHG High-Flux Sources. <i>Springer Series in Optical Sciences</i> , 2015 , 63-78 | 0.5 | 4 |
| 26 | Second generation X-ray lasers. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006 , 99, 142-152 | 2.1 | 4 |
| 25 | Radiation damages to amorphous-carbon optical coatings 2005 , | | 4 |
| 24 | XUV interferometry using high-order harmonics: Application to plasma diagnostics. <i>Laser and Particle Beams</i> , 2001 , 19, 35-40 | 0.9 | 4 |

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|----|--|-----|---|
| 23 | Enhanced extreme ultraviolet high-harmonic generation from chromium-doped magnesium oxide. <i>Applied Physics Letters</i> , 2021 , 118, 201103 | 3-4 | 4 |
| 22 | Spectral control of high order harmonics through non-linear propagation effects. <i>Applied Physics Letters</i> , 2021 , 119, 071101 | 3-4 | 4 |
| 21 | Impact of noise in holography with extended references in the low signal regime. <i>Optics Express</i> , 2016 , 24, 6318-27 | 3-3 | 3 |
| 20 | Sub-100 nanometer lensless probing of Co/Pd magnetic nanodomains using a table-top femtosecond soft X-ray harmonic source. <i>Journal of Modern Optics</i> , 2013 , 60, 1475-1483 | 1.1 | 3 |
| 19 | Investigating the origin of third harmonic generation from diabolical optical antennas. <i>Applied Physics Letters</i> , 2017 , 111, 173102 | 3-4 | 3 |
| 18 | 2-D X-ray laser-plasma imaging using Bragg Fresnel multilayer zone plates. <i>Optics Communications</i> , 1998 , 155, 398-405 | 2 | 3 |
| 17 | Manipulating intense XUV coherent light in the temporal domain. <i>Laser and Particle Beams</i> , 2004 , 22, 275-278 | 0.9 | 3 |
| 16 | Experiments with ASTERIX and ATLAS. <i>Fusion Engineering and Design</i> , 1999 , 44, 147-155 | 1.7 | 3 |
| 15 | Subthreshold Erosion of an Organic Polymer Induced by Multiple Shots of an X-Ray Free-Electron Laser. <i>Physical Review Applied</i> , 2020 , 14, | 4-3 | 2 |
| 14 | Applications of intense ultra-short XUV pulses to solid state physics: time-resolved luminescence spectroscopy and radiation damage studies 2007 , | | 2 |
| 13 | Lensless microscopy platform for single cell and tissue visualization. <i>Biomedical Optics Express</i> , 2020 , 11, 2806-2817 | 3-5 | 2 |
| 12 | Single-shot spatial coherence characterization of x-ray ultrafast sources. <i>Optics Letters</i> , 2021 , 46, 1764-1767 | | 2 |
| 11 | Controlling the non-linear optical properties of MgO by tailoring the electronic structure. <i>Applied Physics B: Lasers and Optics</i> , 2020 , 126, 1 | 1.9 | 1 |
| 10 | Coherent Diffractive Imaging 2014 , 557-597 | | 1 |
| 9 | Single-shot studies of a Co/Pd thin film magnetic nano-domain structure using ultrafast x-ray scattering. <i>Laser Physics</i> , 2014 , 24, 025301 | 1.2 | 1 |
| 8 | EUV-driven femtosecond dynamics in ethylene. <i>Journal of Physics: Conference Series</i> , 2009 , 194, 012015 | 0.3 | 1 |
| 7 | Status of the sparc-x project 2007 , | | 1 |
| 6 | Plasmon-Amplified Third Harmonic Generation in Metal/Dielectric Resonators. <i>Plasmonics</i> , 2021 , 16, 1883 | 2.4 | 1 |

- 5 Femtosecond dynamics and multiphoton ionization driven with an intense high order harmonic source. *Journal of Physics: Conference Series*, **2009**, 194, 032015 0.3
- 4 Photoionization in combined ultra short XUV and infrared laser pulses. *Journal of Physics: Conference Series*, **2008**, 141, 012015 0.3
- 3 Status and Prospects on Soft X-Ray Lasers Seeded by a High Harmonic Beam at LOA **2007**, 225-233
- 2 Characterization of Attosecond Pulse Trains. *Springer Series in Optical Sciences*, **2007**, 45-56 0.5
- 1 Ultrafast Nanoscale Imaging Using High Order Harmonic Generation. *Springer Proceedings in Physics*, **2012**, 391-399 0.2