Hamed Merdji

List of Publications by Year in Descending Order

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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	Single-shot spatial coherence characterization of x-ray ultrafast sources. *Optics Letters*, **2021**, 46, 1764-1767	3	2
93	Plasmon-Amplified Third Harmonic Generation in Metal/Dielectric Resonators. *Plasmonics*, **2021**, 16, 1883	2.4	1
92	Enhanced extreme ultraviolet high-harmonic generation from chromium-doped magnesium oxide. *Applied Physics Letters*, **2021**, 118, 201103	3.4	4
91	High Harmonics and Isolated Attosecond Pulses from MgO. *Physical Review Applied*, **2021**, 15,	4.3	10
90	Spectral control of high order harmonics through non-linear propagation effects. *Applied Physics Letters*, **2021**, 119, 071101	3.4	4
89	Subthreshold Erosion of an Organic Polymer Induced by Multiple Shots of an X-Ray Free-Electron Laser. *Physical Review Applied*, **2020**, 14,	4.3	2
88	Controlling the non-linear optical properties of MgO by tailoring the electronic structure. *Applied Physics B: Lasers and Optics*, **2020**, 126, 1	1.9	1
87	Lensless microscopy platform for single cell and tissue visualization. *Biomedical Optics Express*, **2020**, 11, 2806-2817	3.5	2
86	Broadband coherent diffractive imaging. *Nature Photonics*, **2020**, 14, 618-622	33.9	12
85	Generating Ultrabroadband Deep-UV Radiation and Sub-10 nm Gap by Hybrid-Morphology Gold Antennas. *Nano Letters*, **2019**, 19, 4779-4786	11.5	10
84	Computed stereo lensless X-ray imaging. *Nature Photonics*, **2019**, 13, 449-453	33.9	6
83	All semiconductor enhanced high-harmonic generation from a single nanostructured cone. *Scientific Reports*, **2019**, 9, 5663	4.9	19
82	Orbital angular momentum from semiconductor high-order harmonics. *Optics Letters*, **2019**, 44, 546-549	3	17
81	CEP-stable high-energy ytterbium-doped fiber amplifier. *Optics Letters*, **2019**, 44, 3909-3912	3	9
80	Impact of Plasmon-Induced Atoms Migration in Harmonic Generation. *ACS Photonics*, **2018**, 5, 1208-1214	6.3	6
79	Tracking the ultrafast XUV optical properties of x-ray free-electron-laser heated matter with high-order harmonics. *Physical Review A*, **2018**, 97,	2.6	13
78	Resonant-Plasmon-Assisted Subwavelength Ablation by a Femtosecond Oscillator. *Physical Review Applied*, **2018**, 9,	4.3	5

77	Nano-plasmonic near field phase matching of attosecond pulses. *Scientific Reports*, **2017**, 7, 6356	4.9	9
76	Investigating the origin of third harmonic generation from diabolo optical antennas. *Applied Physics Letters*, **2017**, 111, 173102	3.4	3
75	Self-optimization of plasmonic nanoantennas in strong femtosecond fields. *Optica*, **2017**, 4, 1038	8.6	20
74	Impact of noise in holography with extended references in the low signal regime. *Optics Express*, **2016**, 24, 6318-27	3.3	3
73	Fourier transform holography with high harmonic spectra for attosecond imaging applications. *Optics Letters*, **2015**, 40, 3205-8	3	10
72	Spectral-phase interferometry for direct electric-field reconstruction applied to seeded extreme-ultraviolet free-electron lasers. *Optics Express*, **2015**, 23, 17665-74	3.3	7
71	Shot-to-shot intensity and wavefront stability of high-harmonic generation. *Applied Optics*, **2015**, 54, 4745-9	1.7	7
70	Overview on HHG High-Flux Sources. *Springer Series in Optical Sciences*, **2015**, 63-78	0.5	4
69	Spatial quality improvement of a Ti:Sapphire laser beam by modal filtering. *Applied Physics B: Lasers and Optics*, **2015**, 118, 47-60	1.9	5
68	Coherent Diffractive Imaging **2014**, 557-597		1
67	Single-shot studies of a Co/Pd thin films magnetic nano-domain structure using ultrafast x-ray scattering. *Laser Physics*, **2014**, 24, 025301	1.2	1
66	Sub-100 nanometer lensless probing of Co/Pd magnetic nanodomains using a table-top femtosecond soft X-ray harmonic source. *Journal of Modern Optics*, **2013**, 60, 1475-1483	1.1	3
65	Microfocusing of the FERMI@Elettra FEL beam with a KB active optics system: Spot size predictions by application of the WISE code. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2013**, 710, 131-138	1.2	40
64	Impact of wave front and coherence optimization in coherent diffractive imaging. *Optics Express*, **2013**, 21, 11441-7	3.3	18
63	Laser-induced ultrafast demagnetization in the presence of a nanoscale magnetic domain network. *Nature Communications*, **2012**, 3, 999	17.4	121
62	Molecular frame Auger electron energy spectrum from N2. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2012**, 45, 055601	1.3	21
61	Ultrafast Nanoscale Imaging Using High Order Harmonic Generation. *Springer Proceedings in Physics* , **2012**, 391-399	0.2	
60	High-order-harmonic generation in gas with a flat-top laser beam. *Physical Review A*, **2011**, 84,	2.6	26

59	Scaling of the generation of high-order harmonics in large gas media with focal length. *Physical Review A*, **2011**, 84,	2.6	9
58	Time-resolved pump-probe experiments at the LCLS. *Optics Express*, **2010**, 18, 17620-30	3.3	146
57	Auger electron angular distribution of double core-hole states in the molecular reference frame. *Physical Review Letters*, **2010**, 105, 083004	7.4	149
56	Single-shot femtosecond x-ray holography using extended references. *Physical Review Letters*, **2010**, 105, 093901	7.4	67
55	Internal frequency conversion extreme ultraviolet interferometer using mutual coherence properties of two high-order-harmonic sources. *Review of Scientific Instruments*, **2009**, 80, 113102	1.7	5
54	Generation of attosecond x-ray pulses with a multicycle two-color enhanced self-amplified spontaneous emission scheme. *Physical Review Special Topics: Accelerators and Beams*, **2009**, 12,		68
53	Surface modification of polymethylmethacrylate irradiated with 60 fs single laser pulses. *Radiation Physics and Chemistry*, **2009**, 78, S71-S74	2.5	10
52	Exciton-exciton interactions in CdWO4 irradiated by intense femtosecond vacuum ultraviolet pulses. *Physical Review B*, **2009**, 79,	3.3	44
51	Single-shot diffractive imaging with a table-top femtosecond soft x-ray laser-harmonics source. *Physical Review Letters*, **2009**, 103, 028104	7.4	147
50	Femtosecond dynamics and multiphoton ionization driven with an intense high order harmonic source. *Journal of Physics: Conference Series*, **2009**, 194, 032015	0.3	
49	EUV-driven femtosecond dynamics in ethylene. *Journal of Physics: Conference Series*, **2009**, 194, 012015	0.3	1
48	Femtosecond isomerization dynamics in the ethylene cation measured in an EUV-pump NIR-probe configuration. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2009**, 42, 081002	1.3	21
47	Injection of harmonics generated in gas in a free-electron laser providing intense and coherent extreme-ultraviolet light. *Nature Physics*, **2008**, 4, 296-300	16.2	239
46	Coherent control of attosecond emission from aligned molecules. *Nature Physics*, **2008**, 4, 545-549	16.2	179
45	Complete momentum analysis of multi-photon photo-double ionization of xenon by XUV and infrared photons. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2008**, 41, 065601	1.3	10
44	Evolution of angular distributions in two-colour, few-photon ionization of helium. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2008**, 41, 051002	1.3	24
43	Photoionization in combined ultra short XUV and infrared laser pulses. *Journal of Physics: Conference Series*, **2008**, 141, 012015	0.3	
42	Seeding experiments at SPARC. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2008**, 593, 132-136	1.2	14

41	Optimization of the wave front of high order harmonics. *European Physical Journal D*, **2008**, 48, 459-463	1.3	28
40	Time resolved luminescence of solids excited by femtosecond VUV pulses and synchrotron radiation. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2007**, 4, 870-876		5
39	Status of the sparc-x project **2007**,		1
38	Subcycle dynamics in the laser ionization of molecules. *Physical Review A*, **2007**, 76,	2.6	9
37	Applications of intense ultra-short XUV pulses to solid state physics: time-resolved luminescence spectroscopy and radiation damage studies **2007**,		2
36	Demonstration of a spatial filtering amplifier for high-order harmonics. *Optics Letters*, **2007**, 32, 1498-500	3	16
35	Isolated attosecond pulses using a detuned second-harmonic field. *Optics Letters*, **2007**, 32, 3134-6	3	73
34	Status and Prospects on Soft X-Ray Lasers Seeded by a High Harmonic Beam at LOA **2007**, 225-233		
33	Characterization of Attosecond Pulse Trains. *Springer Series in Optical Sciences*, **2007**, 45-56	0.5	
32	Macroscopic control of high-order harmonics quantum-path components for the generation of attosecond pulses. *Physical Review A*, **2006**, 74,	2.6	31
31	Submicrometer digital in-line holographic microscopy at 32 nm with high-order harmonics. *Optics Letters*, **2006**, 31, 3095-7	3	61
30	Second generation X-ray lasers. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2006**, 99, 142-152	2.1	4
29	Generation of attosecond pulses in molecular nitrogen. *European Physical Journal D*, **2006**, 40, 305-311	1.3	21
28	Radiation damages to amorphous-carbon optical coatings **2005**,		4
27	Extreme ultraviolet Fourier-transform spectroscopy with high order harmonics. *Physical Review Letters*, **2005**, 95, 223903	7.4	35
26	High harmonic XUV spectral phase interferometry for direct electric-field reconstruction. *Physical Review Letters*, **2005**, 94, 173903	7.4	67
25	Reconstruction of attosecond pulse trains using an adiabatic phase expansion. *Physical Review Letters*, **2005**, 95, 243901	7.4	39
24	Observation of laser driven supercritical radiative shock precursors. *Physical Review Letters*, **2004**, 92, 225001	7.4	99

23	Optimization of attosecond pulse generation. *Physical Review Letters*, **2004**, 93, 163901	7.4	77
22	A high-intensity highly coherent soft X-ray femtosecond laser seeded by a high harmonic beam. *Nature*, **2004**, 431, 426-9	50.4	244
21	Manipulating intense XUV coherent light in the temporal domain. *Laser and Particle Beams*, **2004**, 22, 275-278	0.9	3
20	Temporal confinement of the harmonic emission through polarization gating. *European Physical Journal D*, **2003**, 26, 79-82	1.3	30
19	Application of frequency-domain interferometry in the extreme-ultraviolet range by use of high-order harmonics. *Journal of the Optical Society of America B: Optical Physics*, **2003**, 20, 171	1.7	5
18	Attosecond synchronization of high-harmonic soft x-rays. *Science*, **2003**, 302, 1540-3	33.3	670
17	Extreme-ultraviolet high-order harmonic pulses in the microjoule range. *Physical Review A*, **2002**, 66,	2.6	183
16	A laser experiment for studying radiative shocks in astrophysics. *Laser and Particle Beams*, **2002**, 20, 263-268	0.9	44
15	LTE absorption spectroscopy of an X-ray heated boron plasma. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2001**, 69, 217-229	2.1	10
14	XUV interferometry using high-order harmonics: Application to plasma diagnostics. *Laser and Particle Beams*, **2001**, 19, 35-40	0.9	4
13	Ultrafast electron relaxation measurements on SiO2 using high-order harmonics generation. *Laser and Particle Beams*, **2000**, 18, 489-494	0.9	8
12	Coherence properties of high-order harmonics: Application to high-density laser plasma diagnostic. *Laser and Particle Beams*, **2000**, 18, 495-502	0.9	7
11	Radiative heating of B, Al and Ni thin foils at 15 25 eV temperatures. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2000**, 65, 117-133	2.1	30
10	Characterization of a high resolution transmission grating. *Optics Communications*, **2000**, 173, 37-43	2	7
9	Hot-electron relaxation in quartz using high-order harmonics. *Physical Review B*, **2000**, 61, 9883-9886	3.3	40
8	Extreme ultraviolet interferometry measurements with high-order harmonics. *Optics Letters*, **2000**, 25, 135-7	3	79
7	Opacity Studies of Iron in the 15 0eV Temperature Range. *Astrophysical Journal, Supplement Series*, **2000**, 127, 275-281	8	64
6	Frequency-Domain Interferometry in the XUV with High-Order Harmonics. *Physical Review Letters*, **1999**, 83, 5483-5486	7.4	72

5	Experiments with ASTERIX and ATLAS. *Fusion Engineering and Design*, **1999**, 44, 147-155	1.7	3
4	2-D X-ray laser-plasma imaging using Bragg Fresnel multilayer zone plates. *Optics Communications*, **1998**, 155, 398-405	2	3
3	Absorption spectroscopy of a radiatively heated samarium plasma. *Physical Review E*, **1998**, 57, 1042-1046	2.4	28
2	K-shell spectroscopy of radiatively heated aluminium. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **1997**, 58, 773-781	2.1	11
1	Opacity measurements of a radiatively heated boron sample. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **1997**, 58, 783-789	2.1	16