

Tenio Popmintchev

List of Publications by Citations

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52
papers

4,311
citations

27
h-index

65
g-index

116
ext. papers

5,306
ext. citations

6.9
avg, IF

4.66
L-index

#	Paper	IF	Citations
52	Bright coherent ultrahigh harmonics in the keV x-ray regime from mid-infrared femtosecond lasers. <i>Science</i> , 2012 , 336, 1287-91	33.3	1091
51	The attosecond nonlinear optics of bright coherent X-ray generation. <i>Nature Photonics</i> , 2010 , 4, 822-832	33.9	399
50	Generation of bright phase-matched circularly-polarized extreme ultraviolet high harmonics. <i>Nature Photonics</i> , 2015 , 9, 99-105	33.9	300
49	90 GW peak power few-cycle mid-infrared pulses from an optical parametric amplifier. <i>Optics Letters</i> , 2011 , 36, 2755-7	3	257
48	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, 10516-21	11.5	245
47	Bright, coherent, ultrafast soft X-ray harmonics spanning the water window from a tabletop light source. <i>Physical Review Letters</i> , 2010 , 105, 173901	7.4	238
46	Bright circularly polarized soft X-ray high harmonics for X-ray magnetic circular dichroism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 14206-11	11.5	186
45	Quasi-phase-matching and quantum-path control of high-harmonic generation using counterpropagating light. <i>Nature Physics</i> , 2007 , 3, 270-275	16.2	182
44	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, 13279-85	11.5	144
43	Extended phase matching of high harmonics driven by mid-infrared light. <i>Optics Letters</i> , 2008 , 33, 2128-30	30	124
42	Ultraviolet surprise: Efficient soft x-ray high-harmonic generation in multiply ionized plasmas. <i>Science</i> , 2015 , 350, 1225-31	33.3	111
41	Zeptosecond high harmonic keV x-ray waveforms driven by midinfrared laser pulses. <i>Physical Review Letters</i> , 2013 , 111, 033002	7.4	100
40	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	11.5	92
39	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	7.4	86
38	Self-compression of ultrashort pulses through ionization-induced spatiotemporal reshaping. <i>Physical Review Letters</i> , 2004 , 93, 173902	7.4	85
37	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	75
36	Schemes for generation of isolated attosecond pulses of pure circular polarization. <i>Physical Review A</i> , 2016 , 93,	2.6	52

35	High-order harmonic generation from ions in a capillary discharge. <i>Physical Review Letters</i> , 2006 , 96, 203901	4.0	49
34	Phase-matching techniques for coherent soft X-ray generation. <i>IEEE Journal of Quantum Electronics</i> , 2006 , 42, 14-26	2	46
33	Ultrafast Modulation of the Chemical Potential in BaFe ₂ As ₂ by Coherent Phonons. <i>Physical Review Letters</i> , 2014 , 112,	7.4	45
32	Grating-assisted phase matching in extreme nonlinear optics. <i>Physical Review Letters</i> , 2007 , 99, 053902	7.4	43
31	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, 6194-202	3.3	42
30	Hot-electron-driven charge transfer processes on O ₂ /Pt(111) surface probed by ultrafast extreme-ultraviolet pulses. <i>Physical Review B</i> , 2002 , 66,	3.3	37
29	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	1.3	35
28	Spatially coherent, phase matched, high-order harmonic EUV beams at 50 kHz. <i>Optics Express</i> , 2009 , 17, 17376-83	3.3	34
27	Self-amplified photo-induced gap quenching in a correlated electron material. <i>Nature Communications</i> , 2016 , 7, 12902	17.4	33
26	Enhanced high harmonic generation from multiply ionized argon above 500 eV through laser pulse self-compression. <i>Physical Review Letters</i> , 2009 , 103, 143901	7.4	33
25	Enhanced high-order harmonic generation from Xe, Kr, and Ar in a capillary discharge. <i>Physical Review A</i> , 2007 , 76,	2.6	19
24	Group velocity matching in high-order harmonic generation driven by mid-infrared lasers. <i>New Journal of Physics</i> , 2016 , 18, 073031	2.9	18
23	Isolated broadband attosecond pulse generation with near- and mid-infrared driver pulses via time-gated phase matching. <i>Optics Express</i> , 2017 , 25, 11855-11866	3.3	15
22	Phase matching, quasi-phase matching, and pulse compression in a single waveguide for enhanced high-harmonic generation. <i>Optics Letters</i> , 2005 , 30, 1971-3	3	15
21	Picosecond ionization dynamics in femtosecond filaments at high pressures. <i>Physical Review A</i> , 2017 , 95,	2.6	13
20	Unified microscopic-macroscopic formulation of high-order difference-frequency mixing in plasmas. <i>Physical Review Letters</i> , 2007 , 98, 043903	7.4	13
19	Sawtooth grating-assisted phase-matching. <i>Optics Express</i> , 2010 , 18, 22686-92	3.3	12
18	Design of fully spatially coherent extreme-ultraviolet light sources. <i>Applied Physics Letters</i> , 2004 , 84, 3903-3905	3.4	11

17	Lorentz drift compensation in high harmonic generation in the soft and hard X-ray regions of the spectrum. <i>Optics Express</i> , 2016 , 24, 21818-32	3.3	7
16	Ionization-assisted spatiotemporal localization in gas-filled capillaries. <i>Optics Letters</i> , 2018 , 43, 3112-3115		7
15	Extreme nonlinear optics: attosecond photonics at short wavelengths. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2004 , 10, 1339-1350	3.8	5
14	Bright Circularly Polarized Soft X-Ray High Harmonics for X-Ray Magnetic Circular Dichroism 2015 ,		3
13	Ultrahigh-Efficiency High Harmonic Generation Driven by UV Lasers 2013 ,		3
12	High Repetition Rate, mJ-Level, mid-IR OPCPA System 2014 ,		1
11	Bright Isolated Attosecond Soft X-Ray Pulses. <i>Springer Proceedings in Physics</i> , 2015 , 95-98	0.2	1
10	Fully Spatially Coherent High Harmonic Beams in the keV Region of the Spectrum 2012 ,		1
9	Extended Phase-Matching of High Harmonics Driven by Focusing Light in Planar Waveguide 2012 ,		1
8	X-Ray Magnetic Circular Dichroism Probed Using High Harmonics. <i>Springer Proceedings in Physics</i> , 2015 , 60-63	0.2	1
7	Talbot solitons. <i>Optics Letters</i> , 2008 , 33, 830-2		3
6	Laser restoration of ceramic artifacts with archeological value 2001 , 4397, 343		
5	Phase Matching and Quasi-Phase Matching of Extreme High-Order Harmonic Generation. <i>Springer Series in Chemical Physics</i> , 2009 , 12-14	0.3	
4	Enhanced High Harmonic Generation from Ions using a Capillary Discharge. <i>Springer Series in Chemical Physics</i> , 2007 , 15-17	0.3	
3	Enhanced High Harmonic Generation from Ions Using a Capillary Discharge Plasma. <i>Springer Proceedings in Physics</i> , 2007 , 383-388	0.2	
2	Generation of Bright Circularly-Polarized High Harmonics for Magneto-Optical Investigations. <i>Springer Proceedings in Physics</i> , 2016 , 187-192	0.2	
1	Sawtooth grating-assisted phase-matching. <i>Optics Express</i> , 2010 , 18, 21583	3.3	