

Amelle Zair

List of Publications by Year in descending order

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67
papers

2,203
citations

249298

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47
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67
all docs

67
docs citations

67
times ranked

1740
citing authors

#	ARTICLE	IF	CITATIONS
1	High harmonic generation in two-dimensional Mott insulators. Npj Quantum Materials, 2021, 6, .	1.8	18
2	Attosecond pulse generation at ELI-ALPS 100 kHz repetition rate beamline. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 154004.	0.6	21
3	Generation of high-order harmonics with tunable photon energy and spectral width using double pulses. Physical Review A, 2020, 102, .	1.0	12
4	Double-pulse characterization by self-referenced spectral interferometry. Applied Physics Letters, 2019, 115, 051106.	1.5	3
5	Symphony on strong field approximation. Reports on Progress in Physics, 2019, 82, 116001.	8.1	123
6	Chirp-control of resonant high-order harmonic generation in indium ablation plumes driven by intense few-cycle laser pulses. Optics Express, 2018, 26, 15745.	1.7	33
7	Ultrastable collinear delay control setup for attosecond IR-XUV pump-probe experiment. Journal of the Optical Society of America B: Optical Physics, 2018, 35, A110.	0.9	9
8	Attosecond physics at the nanoscale. Reports on Progress in Physics, 2017, 80, 054401.	8.1	274
9	Compensation of high order harmonic long quantum-path attosecond chirp. Journal of Optics (United Kingdom), 2017, 19, 124011.	1.0	1
10	Optimization of Quantum Trajectories Driven by Strong-Field Waveforms. Springer Proceedings in Physics, 2015, , 72-77.	0.1	0
11	High-order harmonic generation driven by plasmonic fields: a new route towards the generation of UV and XUV photons?. Journal of Physics: Conference Series, 2015, 601, 012001.	0.3	9
12	Study of filamentation compression in the near infrared in the 1.6 μm to 2 μm region for HHG experiments. , 2014, , .		0
13	Control of temporal mapping and harmonic intensity modulation using two-color orthogonally polarized fields. Physical Review A, 2014, 89, .	1.0	14
14	Extending HHG spectroscopy to new molecular species. Proceedings of SPIE, 2014, , .	0.8	3
15	Electron trajectory control of odd and even order harmonics in high harmonic generation using an orthogonally polarised second harmonic field. Journal of Modern Optics, 2014, 61, 608-614.	0.6	7
16	High-order harmonic generation at high laser intensities beyond the tunnel regime. European Physical Journal D, 2014, 68, 1.	0.6	2
17	Optimization of Quantum Trajectories Driven by Strong-Field Waveforms. Physical Review X, 2014, 4, .	2.8	54
18	Near infrared few-cycle pulses for high harmonic generation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 204013.	0.6	2

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19	Comparison of high-order harmonic generation in uracil and thymine ablation plumes. Physical Chemistry Chemical Physics, 2013, 15, 12308.	1.3	27
20	Molecular internal dynamics studied by quantum path interferences in high order harmonic generation. Chemical Physics, 2013, 414, 184-191.	0.9	23
21	High-order-harmonic generation by enhanced plasmonic near-fields in metal nanoparticles. Physical Review A, 2013, 87, .	1.0	74
22	Towards isolated attosecond pulses at megahertz repetition rates. Nature Photonics, 2013, 7, 555-559.	15.6	124
23	High-order harmonic generation in fullerenes using few- and multi-cycle pulses of different wavelengths. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 7.	0.9	46
24	High energy photoelectron emission from gases using plasmonic enhanced near-fields. Laser Physics Letters, 2013, 10, 105302.	0.6	22
25	Beyond carbon K-edge harmonic emission using spatially and temporally synthesized laser field. , 2013, , .		0
26	Beyond Carbon K -Edge Harmonic Emission Using a Spatial and Temporal Synthesized Laser Field. Physical Review Letters, 2013, 110, 053001.	2.9	108
27	Tunable 1.6 μm near infrared few-cycle pulse generation by filamentation. Applied Physics Letters, 2013, 102, .	1.5	17
28	Toward a "Perfect-Wave" HHG Driving With a Multicolor OPA. EPJ Web of Conferences, 2013, 41, 01017.	0.1	1
29	Isolated sub-fs XUV pulse generation in Mn plasma ablation. Optics Express, 2012, 20, 25239.	1.7	54
30	Enhancement of high harmonics from plasmas using two-color pump and chirp variation of 1 kHz Ti:sapphire laser pulses. Optics Express, 2012, 20, 90.	1.7	46
31	Experimental and theoretical studies of two-color-pump resonance-induced enhancement of odd and even harmonics from a tin plasma. Physical Review A, 2012, 85, .	1.0	70
32	High-order harmonic generation in graphite plasma plumes using ultrashort laser pulses: a systematic analysis of harmonic radiation and plasma conditions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 165402.	0.6	60
33	Development of High Power Infrared Optical Parametric Amplification Laser System Seeded by Self-difference Frequency Generation Pulses. Springer Proceedings in Physics, 2012, , 45-47.	0.1	0
34	High-order harmonic generation from metal plasmas using 1 kHz laser pulses. Journal of Modern Optics, 2011, 58, 819-824.	0.6	14
35	Trajectory Selection in High Harmonic Generation by Controlling the Phase between Orthogonal Two-Color Fields. Physical Review Letters, 2011, 107, 153902.	2.9	100
36	Valley in the efficiency of the high-order harmonic yield at ultra-high laser intensities. Optics Express, 2011, 19, 19430.	1.7	11

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37	Quantum path signatures in harmonic spectra from metal plasma. <i>Physical Review A</i> , 2011, 83, .	1.0	16
38	Yield enhancement in multicolour high-order harmonic generation: Superposition of multiple un-related frequencies. , 2011, , .		0
39	Energy scaling-up of stable single filament. <i>Applied Physics B: Lasers and Optics</i> , 2010, 101, 15-22.	1.1	3
40	Pulse-Length Dependence of the Anisotropy of Laser-Driven Cluster Explosions: Transition to the Impulsive Regime for Pulses Approaching the Few-Cycle Limit. <i>Physical Review Letters</i> , 2010, 104, 203401.	2.9	39
41	Spatial fingerprint of quantum path interferences in high order harmonic generation. <i>Optics Express</i> , 2010, 18, 2987.	1.7	35
42	High harmonic emission from a superposition of multiple unrelated frequency fields. <i>Optics Express</i> , 2010, 18, 6853.	1.7	40
43	Femtosecond multi-filamentation control by mixture of gases: towards synthesised nonlinearity. <i>Optics Express</i> , 2010, 18, 15467.	1.7	4
44	Self-compression controlled by the chirp of the input pulse. <i>Optics Letters</i> , 2010, 35, 3649.	1.7	30
45	Spatiotemporal amplitude-and-phase reconstruction by Fourier-transform of interference spectra of high-complex-beams. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010, 27, 933.	0.9	86
46	Controlling high-order harmonic cut-off extension using two delayed pulses of the same colour. , 2009, , .		0
47	Theoretical and experimental analysis of quantum path interferences in high-order harmonic generation. <i>Physical Review A</i> , 2009, 80, .	1.0	44
48	Extension of the cut-off in high-harmonic generation using two delayed pulses of the same colour. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 134004.	0.6	21
49	Direct observation of quantum-path interferences in high order harmonic generation. <i>European Physical Journal: Special Topics</i> , 2009, 175, 191-194.	1.2	4
50	Above-millijoule super-continuum generation using polarisation dependent filamentation in atoms and molecules. <i>Optics Express</i> , 2009, 17, 3630.	1.7	34
51	Ionization effects on spectral signatures of quantum-path interference in high-harmonic generation. <i>Optics Express</i> , 2009, 17, 5716.	1.7	21
52	Shaping of attosecond pulses by phase-stabilized polarization gating. <i>Physical Review A</i> , 2009, 80, .	1.0	42
53	Study of quantum-path interferences in the high harmonic generation process. <i>Springer Series in Chemical Physics</i> , 2009, , 27-29.	0.2	0
54	Quantum Path Interferences in High-Harmonic Generation: Ionization Effects and Spatial Structure. , 2009, , .		0

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55	Quantum Path Interferences in High-Order Harmonic Generation. Physical Review Letters, 2008, 100, 143902.	2.9	177
56	Two-quantum-path interferences in high order harmonic generation. , 2007, , .		0
57	Spatio-Temporal Characterization of Sub-5-fs Pulses Obtained by Filamentation. , 2007, , .		1
58	Two-quantum-path interferences in high order harmonic generation. , 2007, , .		0
59	Quantum-path interferences in high order harmonic generation. , 2007, , .		0
60	Spatio-temporal characterization of few-cycle pulses obtained by filamentation. Optics Express, 2007, 15, 5394.	1.7	118
61	Spatio-Temporal and Interferometric Characterization of Sub-5-fs Pulses Obtained by Filamentation. , 2007, , .		0
62	Temporal and spectral studies of high-order harmonics generated by polarization-modulated infrared fields. Physical Review A, 2006, 74, .	1.0	17
63	Single attosecond pulse production with an ellipticity-modulated driving IR pulse. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, L161-L167.	0.6	33
64	Time-resolved ellipticity gating of high-order harmonic emission. Physical Review A, 2004, 69, .	1.0	21
65	Generation of attosecond pulses with ellipticity-modulated fundamental. Applied Physics B: Lasers and Optics, 2004, 78, 879-884.	1.1	35
66	Controlling the duration of XUV high order harmonic pulses. , 0, , .		0
67	Confinement of attosecond train pulses by using a modulated polarization IR pulse. , 0, , .		0