

Michael Chini

List of Publications by Year in descending order

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97
papers

3,953
citations

159585

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h-index

144013

57
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98
all docs

98
docs citations

98
times ranked

2141
citing authors

#	ARTICLE	IF	CITATIONS
1	Tailoring a 67 attosecond pulse through advantageous phase-mismatch. <i>Optics Letters</i> , 2012, 37, 3891.	3.3	505
2	The generation, characterization and applications of broadband isolated attosecond pulses. <i>Nature Photonics</i> , 2014, 8, 178-186.	31.4	391
3	53-attosecond X-ray pulses reach the carbon K-edge. <i>Nature Communications</i> , 2017, 8, 186.	12.8	313
4	Attosecond Time-Resolved Autoionization of Argon. <i>Physical Review Letters</i> , 2010, 105, 143002.	7.8	308
5	Generation of Isolated Attosecond Pulses with 20 to 28 Femtosecond Lasers. <i>Physical Review Letters</i> , 2009, 103, 183901.	7.8	275
6	Sub-cycle Oscillations in Virtual States Brought to Light. <i>Scientific Reports</i> , 2013, 3, .	3.3	147
7	High-harmonic generation in amorphous solids. <i>Nature Communications</i> , 2017, 8, 724.	12.8	145
8	Subcycle ac Stark Shift of Helium Excited States Probed with Isolated Attosecond Pulses. <i>Physical Review Letters</i> , 2012, 109, 073601.	7.8	136
9	Characterizing ultrabroadband attosecond lasers. <i>Optics Express</i> , 2010, 18, 13006.	3.4	132
10	Laser waveform control of extreme ultraviolet high harmonics from solids. <i>Optics Letters</i> , 2017, 42, 1816.	3.3	116
11	Coherent phase-matched VUV generation by field-controlled bound states. <i>Nature Photonics</i> , 2014, 8, 437-441.	31.4	94
12	Monitoring and Controlling the Electron Dynamics in Helium with Isolated Attosecond Pulses. <i>Physical Review Letters</i> , 2010, 105, 263003.	7.8	83
13	Direct compression of 170-fs 50-cycle pulses down to 1.5 cycles with 70% transmission. <i>Scientific Reports</i> , 2018, 8, 11794.	3.3	78
14	Dependence of high-order-harmonic-generation yield on driving-laser ellipticity. <i>Physical Review A</i> , 2012, 86, .	2.5	76
15	Isolated Attosecond Pulse Generation without the Need to Stabilize the Carrier-Envelope Phase of Driving Lasers. <i>Physical Review Letters</i> , 2010, 105, 093902.	7.8	69
16	Extreme ultraviolet supercontinua supporting pulse durations of less than one atomic unit of time. <i>Optics Letters</i> , 2009, 34, 3337.	3.3	66
17	Delay control in attosecond pump-probe experiments. <i>Optics Express</i> , 2009, 17, 21459.	3.4	61
18	Attosecond light sources in the water window. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 023001.	2.2	61

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19	High harmonic generation in ZnO with a high-power mid-IR OPA. Applied Physics Letters, 2017, 110, .	3.3	55
20	Practical issues of retrieving isolated attosecond pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 134007.	1.5	53
21	Isolated attosecond pulse generation using multicycle pulses directly from a laser amplifier. Physical Review A, 2010, 81, .	2.5	50
22	Subcycle laser control and quantum interferences in attosecond photoabsorption of neon. Physical Review A, 2013, 87, .	2.5	49
23	Crystal symmetry and polarization of high-order harmonics in ZnO. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 225601.	1.5	49
24	Multioctave supercontinuum generation and frequency conversion based on rotational nonlinearity. Science Advances, 2020, 6, .	10.3	46
25	Resonance effects and quantum beats in attosecond transient absorption of helium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 124009.	1.5	45
26	Spectral broadening and pulse compression of a 400â€‰nm, 20 W Yb:KGW laser using a multi-plate medium. Applied Physics Letters, 2018, 112, .	3.3	42
27	Reconstruction of an excited-state molecular wave packet with attosecond transient absorption spectroscopy. Physical Review A, 2016, 94, .	2.5	41
28	Ellipticity dependence of 400 nm-driven high harmonic generation. Applied Physics Letters, 2011, 99, 161106.	3.3	39
29	Generation of high-flux attosecond extreme ultraviolet continuum with a 10 TW laser. Applied Physics Letters, 2013, 102, 201104.	3.3	37
30	Single-shot measurement of few-cycle optical waveforms on a chip. Nature Photonics, 2022, 16, 109-112.	31.4	31
31	Suppression of driving laser in high harmonic generation with a microchannel plate. Optics Letters, 2014, 39, 3670.	3.3	30
32	Dramatic enhancement of supercontinuum generation in elliptically-polarized laser filaments. Scientific Reports, 2016, 6, 20363.	3.3	26
33	Coupling between energy and phase in hollow-core fiber based f-to-2f interferometers. Optics Express, 2009, 17, 12082.	3.4	24
34	Mechanism of quasi-phase-matching in a dual-gas multijet array. Physical Review A, 2012, 86, .	2.5	24
35	Retrieval of satellite pulses of single isolated attosecond pulses. Applied Physics Letters, 2009, 94, .	3.3	23
36	All-optical sampling of few-cycle infrared pulses using tunneling in a solid. Photonics Research, 2021, 9, 929.	7.0	21

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37	Hollow-core fiber compression of a commercial Yb:KGW laser amplifier. Journal of the Optical Society of America B: Optical Physics, 2019, 36, A33.	2.1	21
38	In situ calibration of an extreme ultraviolet spectrometer for attosecond transient absorption experiments. Applied Optics, 2013, 52, 323.	1.8	18
39	Carrier-envelope phase stabilization and control of 1 kHz, 6 mJ, 30 fs laser pulses from a Ti:sapphire regenerative amplifier. Applied Optics, 2009, 48, 5692.	2.1	17
40	Precise, real-time, single-shot carrier-envelope phase measurement in the multi-cycle regime. Applied Physics Letters, 2011, 99, 121108.	3.3	15
41	Advances in carrier-envelope phase stabilization of grating-based chirped-pulse amplifiers. Laser and Photonics Reviews, 2010, 4, 160-177.	8.7	14
42	Temperature feedback control for long-term carrier-envelope phase locking. Applied Optics, 2009, 48, 5127.	2.1	13
43	Extreme ultraviolet time- and angle-resolved photoemission setup with 21.5 meV resolution using high-order harmonic generation from a turn-key Yb:KGW amplifier. Review of Scientific Instruments, 2020, 91, 013102.	1.3	13
44	Interaction of a single laser filament with a single water droplet. Journal of Optics (United Kingdom), 2015, 17, 055502.	2.2	12
45	Thermal effects in molecular gas-filled hollow-core fibers. Optics Letters, 2021, 46, 2437.	3.3	11
46	High-harmonic generation in ZnO driven by self-compressed mid-infrared pulses. Journal of the Optical Society of America B: Optical Physics, 2018, 35, A27.	2.1	10
47	Forces, charges, and light emission during the rupture of adhesive contacts. Journal of Applied Physics, 2007, 102, 103509.	2.5	8
48	Direct measurement of an electric field in femtosecond Bessel-Gaussian beams. Optics Letters, 2009, 34, 2390.	3.3	8
49	ATTOSECOND PULSE GENERATION, CHARACTERIZATION AND APPLICATION. Advances in Multi-photon Processes and Spectroscopy, 2011, , 127-174.	0.6	8
50	Divided-pulse amplification to the joule level. Optics Letters, 2016, 41, 3106.	3.3	7
51	Carrier-envelope phase stabilization of 5-fs, 0.5-mJ pulses from an adaptive phase modulator. Applied Physics B: Lasers and Optics, 2010, 98, 291-294.	2.2	6
52	Calibration of electron spectrometer resolution in attosecond streak camera. Optics Express, 2010, 18, 1316.	3.4	4
53	Magnetic-Bottle Electron Spectrometer For Measuring Isolated 25 as Pulses. , 2010, , .		4
54	Attosecond Transient Absorption in Molecular Hydrogen. , 2014, , .		2

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55	Anisotropic Polarization Dependent High Harmonic Generation in the Ferroelectric Crystal BaTiO ₃ . , 2018, , .		2
56	Probing AC Stark shift with attosecond transient absorption. , 2011, , .		1
57	Attosecond transient absorption spectroscopy of molecular hydrogen. Journal of Physics: Conference Series, 2015, 635, 112070.	0.4	1
58	Spectral narrowing broadens applications. Nature Photonics, 2021, 15, 249-251.	31.4	1
59	Probing Hydrogen and Deuterium Molecular Dynamics Using Attosecond Transient Absorption. , 2013, , .		1
60	Electronâ€™electron correlations and structural, spectral and polarization properties of tetragonal BaTiO ₃ . Journal of Physics Condensed Matter, 2020, 32, 475601.	1.8	1
61	Attosecond pulses and laser-driven electron dynamics. Progress in Optics, 2022, , 125-183.	0.6	1
62	Temperature feedback control for long-term carrier-envelope phase locking. , 2009, , .		0
63	Characterization of isolated attosecond pulses with ultrabroad bandwidth. , 2010, , .		0
64	Isolated Attosecond Pulses Generated Directly from a Femtosecond Chirped Pulse Amplifier. , 2010, , .		0
65	Attosecond Time-Resolved Autoionization. , 2011, , .		0
66	Single attosecond pulse generation using GDOG without the need to stabilize Carrier-Envelope phase. , 2011, , .		0
67	Characterizing isolated atomic unit attosecond pulses. , 2011, , .		0
68	Sub-cycle AC Stark Shift. , 2012, , .		0
69	Attosecond Absorption Spectroscopy. Springer Series in Chemical Physics, 2013, , 135-150.	0.2	0
70	Probing Sub-Cycle Dynamics of Virtual States with Attosecond Transient Absorption. , 2013, , .		0
71	Characterization and Application of Isolated Attosecond Pulses. , 2014, , .		0
72	Quantum Beats in Attosecond Transient Absorption of Krypton Autoionizing States. , 2015, , .		0

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73	Speedy electrons exposed in a flash. Nature, 2016, 538, 325-326.	27.8	0
74	Spectral broadening and pulse compression of a high average power Yb:KGW laser. , 2017, , .		0
75	High-order harmonic generation in ZnO using few-cycle mid-IR pulses generated via self-compression. , 2017, , .		0
76	Compression of 280-fs Pulses to two Optical Cycles using Nitrogen-Filled Hollow-Core Fiber. , 2019, , .		0
77	All-optical sampling of few-cycle infrared waveforms using tunneling in a solid. , 2021, , .		0
78	Coupling Between Energy and Carrier-Envelope Phase in Hollow-Core Fiber Based f-to-2f Interferometers. , 2009, , .		0
79	Probing Laser Disturbed Doubly Excited States with Isolated Attosecond Pulses. , 2009, , .		0
80	Characterization of Isolated Attosecond Pulses from Multi-Cycle Lasers. , 2009, , .		0
81	Stabilizing the Carrier-envelope Phase of a 30 fs, 1 kHz, 6 mJ Ti: sapphire Regenerative Amplifier. , 2010, , .		0
82	Single Isolated Attosecond Pulses Generation with Double Optical Gating. Springer Series in Chemical Physics, 2010, , 89-111.	0.2	0
83	Control of Electron Dynamics of Doubly Excited States from Isolated Attosecond Pulses. , 2010, , .		0
84	Characterization of isolated 80 as XUV Pulses with PROOF. , 2011, , .		0
85	Generation of Single Isolated 67-Attosecond Pulses. , 2012, , .		0
86	Route to One Atomic Unit of Time: Development of a Broadband Attosecond Streak Camera. Springer Proceedings in Physics, 2012, , 109-119.	0.2	0
87	Generation of High-Flux Attosecond XUV Continuum with a 10 TW Driving Laser. , 2013, , .		0
88	Sub-cycle laser control and quantum interferences in attosecond photoabsorption of neon. , 2013, , .		0
89	Generation of High-Flux Attosecond Extreme Ultraviolet Continuum with a 20 Terawatt Laser. , 2013, , .		0
90	Sub-cycle Electron Dynamics Probed by Isolated Attosecond Pulses. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
91	Solid-state high-order harmonics driven by long-wavelength lasers. , 2018, , .		0
92	Two-Stage Nonlinear Compression of a Yb:KGW Laser Amplifier to Sub-10 fs Duration. , 2019, , .		0
93	High Harmonic Generation from Thin-film LiNbO3. , 2020, , .		0
94	High-Order Harmonic Source for Time- and Angle-Resolved Photoemission Spectroscopy based on Nonlinear Compression of a Yb:KGW Laser. , 2020, , .		0
95	Thermal Effects in Molecular Gas-Filled Hollow-Core Fibers. , 2020, , .		0
96	High Harmonic Generation from Thin Film LiNbO3. , 2020, , .		0
97	Multi-Octave Supercontinuum and Sub-Two Cycle Pulse Compression Using NzO-Filled Hollow-Core Fiber. , 2020, , .		0