

Michael Chini

List of Publications by Year in descending order

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97
papers

3,953
citations

159585

30
h-index

144013

57
g-index

98
all docs

98
docs citations

98
times ranked

2141
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-shot measurement of few-cycle optical waveforms on a chip. Nature Photonics, 2022, 16, 109-112.	31.4	31
2	Attosecond pulses and laser-driven electron dynamics. Progress in Optics, 2022, , 125-183.	0.6	1
3	All-optical sampling of few-cycle infrared waveforms using tunneling in a solid. , 2021, , .		0
4	Spectral narrowing broadens applications. Nature Photonics, 2021, 15, 249-251.	31.4	1
5	Thermal effects in molecular gas-filled hollow-core fibers. Optics Letters, 2021, 46, 2437.	3.3	11
6	All-optical sampling of few-cycle infrared pulses using tunneling in a solid. Photonics Research, 2021, 9, 929.	7.0	21
7	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
8	Multioctave supercontinuum generation and frequency conversion based on rotational nonlinearity. Science Advances, 2020, 6, .	10.3	46
9	High Harmonic Generation from Thin-film LiNbO ₃ . , 2020, , .		0
10	High-Order Harmonic Source for Time- and Angle-Resolved Photoemission Spectroscopy based on Nonlinear Compression of a Yb:KGW Laser. , 2020, , .		0
11	Thermal Effects in Molecular Gas-Filled Hollow-Core Fibers. , 2020, , .		0
12	High Harmonic Generation from Thin Film LiNbO ₃ . , 2020, , .		0
13	Multi-Octave Supercontinuum and Sub-Two Cycle Pulse Compression Using NzO-Filled Hollow-Core Fiber. , 2020, , .		0
14	Electronâ€™electron correlations and structural, spectral and polarization properties of tetragonal BaTiO ₃ . Journal of Physics Condensed Matter, 2020, 32, 475601.	1.8	1
15	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
16	Compression of 280-fs Pulses to two Optical Cycles using Nitrogen-Filled Hollow-Core Fiber. , 2019, , .		0
17	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
18	Two-Stage Nonlinear Compression of a Yb:KGW Laser Amplifier to Sub-10 fs Duration. , 2019, , .		0

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19	Spectral broadening and pulse compression of a 400â€‰nm, 20 W Yb:KGW laser using a multi-plate medium. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	42
20	Attosecond light sources in the water window. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 023001.	2.2	61
21	High-harmonic generation in ZnO driven by self-compressed mid-infrared pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018, 35, A27.	2.1	10
22	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
23	Anisotropic Polarization Dependent High Harmonic Generation in the Ferroelectric Crystal BaTiO ₃ . , 2018, , .		2
24	Solid-state high-order harmonics driven by long-wavelength lasers. , 2018, , .		0
25	High harmonic generation in ZnO with a high-power mid-IR OPA. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	55
26	High-harmonic generation in amorphous solids. <i>Nature Communications</i> , 2017, 8, 724.	12.8	145
27	53-attosecond X-ray pulses reach the carbon K-edge. <i>Nature Communications</i> , 2017, 8, 186.	12.8	313
28	Spectral broadening and pulse compression of a high average power Yb:KGW laser. , 2017, , .		0
29	Laser waveform control of extreme ultraviolet high harmonics from solids. <i>Optics Letters</i> , 2017, 42, 1816.	3.3	116
30	High-order harmonic generation in ZnO using few-cycle mid-IR pulses generated via self-compression. , 2017, , .		0
31	Reconstruction of an excited-state molecular wave packet with attosecond transient absorption spectroscopy. <i>Physical Review A</i> , 2016, 94, .	2.5	41
32	Divided-pulse amplification to the joule level. <i>Optics Letters</i> , 2016, 41, 3106.	3.3	7
33	Dramatic enhancement of supercontinuum generation in elliptically-polarized laser filaments. <i>Scientific Reports</i> , 2016, 6, 20363.	3.3	26
34	Speedy electrons exposed in a flash. <i>Nature</i> , 2016, 538, 325-326.	27.8	0
35	Attosecond transient absorption spectroscopy of molecular hydrogen. <i>Journal of Physics: Conference Series</i> , 2015, 635, 112070.	0.4	1
36	Interaction of a single laser filament with a single water droplet. <i>Journal of Optics (United Kingdom)</i> , 2015, 17, 055502.	2.2	12

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37	Quantum Beats in Attosecond Transient Absorption of Krypton Autoionizing States. , 2015, , .		0
38	Characterization and Application of Isolated Attosecond Pulses. , 2014, , .		0
39	Suppression of driving laser in high harmonic generation with a microchannel plate. Optics Letters, 2014, 39, 3670.	3.3	30
40	The generation, characterization and applications of broadband isolated attosecond pulses. Nature Photonics, 2014, 8, 178-186.	31.4	391
41	Coherent phase-matched VUV generation by field-controlled bound states. Nature Photonics, 2014, 8, 437-441.	31.4	94
42	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
43	Attosecond Transient Absorption in Molecular Hydrogen. , 2014, , .		2
44	Sub-cycle Oscillations in Virtual States Brought to Light. Scientific Reports, 2013, 3, .	3.3	147
45	Attosecond Absorption Spectroscopy. Springer Series in Chemical Physics, 2013, , 135-150.	0.2	0
46	Generation of high-flux attosecond extreme ultraviolet continuum with a 10 TW laser. Applied Physics Letters, 2013, 102, 201104.	3.3	37
47	In situ calibration of an extreme ultraviolet spectrometer for attosecond transient absorption experiments. Applied Optics, 2013, 52, 323.	1.8	18
48	Subcycle laser control and quantum interferences in attosecond photoabsorption of neon. Physical Review A, 2013, 87, .	2.5	49
49	Probing Sub-Cycle Dynamics of Virtual States with Attosecond Transient Absorption. , 2013, , .		0
50	Probing Hydrogen and Deuterium Molecular Dynamics Using Attosecond Transient Absorption. , 2013, , .		1
51	Generation of High-Flux Attosecond XUV Continuum with a 10 TW Driving Laser. , 2013, , .		0
52	Sub-cycle laser control and quantum interferences in attosecond photoabsorption of neon. , 2013, , .		0
53	Generation of High-Flux Attosecond Extreme Ultraviolet Continuum with a 20 Terawatt Laser. , 2013, , .		0
54	Sub-cycle Electron Dynamics Probed by Isolated Attosecond Pulses. , 2013, , .		0

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55	Subcycle ac Stark Shift of Helium Excited States Probed with Isolated Attosecond Pulses. Physical Review Letters, 2012, 109, 073601.	7.8	136
56	Tailoring a 67 attosecond pulse through advantageous phase-mismatch. Optics Letters, 2012, 37, 3891.	3.3	505
57	Sub-cycle AC Stark Shift. , 2012, , .		0
58	Mechanism of quasi-phase-matching in a dual-gas multijet array. Physical Review A, 2012, 86, .	2.5	24
59	Dependence of high-order-harmonic-generation yield on driving-laser ellipticity. Physical Review A, 2012, 86, .	2.5	76
60	Generation of Single Isolated 67-Attosecond Pulses. , 2012, , .		0
61	Route to One Atomic Unit of Time: Development of a Broadband Attosecond Streak Camera. Springer Proceedings in Physics, 2012, , 109-119.	0.2	0
62	Probing AC Stark shift with attosecond transient absorption. , 2011, , .		1
63	Attosecond Time-Resolved Autoionization. , 2011, , .		0
64	ATTOSECOND PULSE GENERATION, CHARACTERIZATION AND APPLICATION. Advances in Multi-photon Processes and Spectroscopy, 2011, , 127-174.	0.6	8
65	Single attosecond pulse generation using GDOG without the need to stabilize Carrier-Envelope phase. , 2011, , .		0
66	Characterizing isolated atomic unit attosecond pulses. , 2011, , .		0
67	Precise, real-time, single-shot carrier-envelope phase measurement in the multi-cycle regime. Applied Physics Letters, 2011, 99, 121108.	3.3	15
68	Ellipticity dependence of 400 nm-driven high harmonic generation. Applied Physics Letters, 2011, 99, 161106.	3.3	39
69	Characterization of isolated 80 as XUV Pulses with PROOF. , 2011, , .		0
70	Carrier-envelope phase stabilization of 5-fs, 0.5-mJ pulses from adaptive phase modulator. Applied Physics B: Lasers and Optics, 2010, 98, 291-294.	2.2	6
71	Advances in carrier-envelope phase stabilization of grating-based chirped-pulse amplifiers. Laser and Photonics Reviews, 2010, 4, 160-177.	8.7	14
72	Attosecond Time-Resolved Autoionization of Argon. Physical Review Letters, 2010, 105, 143002.	7.8	308

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73	Isolated attosecond pulse generation using multicycle pulses directly from a laser amplifier. Physical Review A, 2010, 81, .	2.5	50
74	Monitoring and Controlling the Electron Dynamics in Helium with Isolated Attosecond Pulses. Physical Review Letters, 2010, 105, 263003.	7.8	83
75	Characterization of isolated attosecond pulses with ultrabroad bandwidth. , 2010, , .		0
76	Isolated Attosecond Pulses Generated Directly from a Femtosecond Chirped Pulse Amplifier. , 2010, , .		0
77	Isolated Attosecond Pulse Generation without the Need to Stabilize the Carrier-Envelope Phase of Driving Lasers. Physical Review Letters, 2010, 105, 093902.	7.8	69
78	Characterizing ultrabroadband attosecond lasers. Optics Express, 2010, 18, 13006.	3.4	132
79	Calibration of electron spectrometer resolution $\hat{\epsilon}$ in attosecond streak camera. Optics Express, 2010, 18, 1316.	3.4	4
80	Magnetic-Bottle Electron Spectrometer For Measuring Isolated 25 as Pulses. , 2010, , .		4
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	Temperature feedback control for long-term carrier-envelope phase locking. , 2009, , .		0
85	Retrieval of satellite pulses of single isolated attosecond pulses. Applied Physics Letters, 2009, 94, .	3.3	23
86	Direct measurement of an electric field in femtosecond Bessel-Gaussian beams. Optics Letters, 2009, 34, 2390.	3.3	8
87	Extreme ultraviolet supercontinua supporting pulse durations of less than one atomic unit of time. Optics Letters, 2009, 34, 3337.	3.3	66
88	Coupling between energy and phase in hollow-core fiber based f-to-2f interferometers. Optics Express, 2009, 17, 12082.	3.4	24
89	Delay control in attosecond pump-probe experiments. Optics Express, 2009, 17, 21459.	3.4	61
90	Temperature feedback control for long-term carrier-envelope phase locking. Applied Optics, 2009, 48, 5127.	2.1	13

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91	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
92	Generation of Isolated Attosecond Pulses with 20 to 28 Femtosecond Lasers. Physical Review Letters, 2009, 103, 183901.	7.8	275
93	Practical issues of retrieving isolated attosecond pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 134007.	1.5	53
94	Coupling Between Energy and Carrier-Envelope Phase in Hollow-Core Fiber Based f-to-2f Interferometers. , 2009, , .		0
95	Probing Laser Disturbed Doubly Excited States with Isolated Attosecond Pulses. , 2009, , .		0
96	Characterization of Isolated Attosecond Pulses from Multi-Cycle Lasers. , 2009, , .		0
97	Forces, charges, and light emission during the rupture of adhesive contacts. Journal of Applied Physics, 2007, 102, 103509.	2.5	8