Chen-Ting Liao

List of Publications by Year
in descending order

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Version: 2024-02-01

		759233	839539
34	676	12	18
papers	citations	h-index	g-index

36	36	36	712
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nondestructive, high-resolution, chemically specific 3D nanostructure characterization using phase-sensitive EUV imaging reflectometry. Science Advances, 2021, 7, .	10.3	55
2	Coherent Fourier scatterometry using orbital angular momentum beams for defect detection. Optics Express, 2021, 29, 3342.	3.4	28
3	Measurement and control of optical nonlinearities in dispersive dielectric multilayers. Optics Express, 2021, 29, 4947.	3.4	3
4	Second-harmonic generation and the conservation of spatiotemporal orbital angular momentum of light. Nature Photonics, 2021, 15, 608-613.	31.4	60
5	Maximizing the Field of View in Blind Ptychography. , 2021, , .		0
6	Conservation of spatiotemporal orbital angular momentum of light in nonlinear frequency conversion. , 2021, , .		1
7	A new metrology technique for defect inspection via coherent Fourier scatterometry using orbital angular momentum beams. , 2021, , .		1
8	Attosecond light science and its application for probing quantum materials. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 184008.	1.5	22
9	SQUARREL: Scattering Quotient Analysis to Retrieve the Ratio of Elements in X-ray Ptychography. Microscopy and Microanalysis, 2019, 25, 112-113.	0.4	2
10	Generation of extreme-ultraviolet beams with time-varying orbital angular momentum. Science, 2019, 364, .	12.6	198
11	Extreme-Ultraviolet Pulses with Self-Torque. , 2019, , .		0
12	Multimodal x-ray and electron microscopy of the Allende meteorite. Science Advances, 2019, 5, eaax3009.	10.3	17
13	Polarization and Vortex Control of Extreme-Ultraviolet Attosecond Pulses through Simultaneous Control of Spin and Orbital Angular Momentum. , 2019, , .		0
14	Controlling the polarization and vortex charge of attosecond high-harmonic beams via simultaneous spinâ€“orbit momentum conservation. Nature Photonics, 2019, 13, 123-130.	31.4	120
15	Attosecond, High-Harmonic Optical Vortices with Tailored Spin and Orbital Angular Momentum. , 2019, , .		0
16	Controlling attosecond transient absorption with tunable, non-commensurate light fields. Optics Letters, 2018, 43, 3357.	3.3	8
17	Ptychographic amplitude and phase reconstruction of bichromatic vortex beams. Optics Express, 2018, 26, 34007.	3.4	21
18	Controlling the polarization and vortex charge of attosecond high-harmonic beams via simultaneous spin-orbit momentum conservation. Nature Photonics, 2018, 13, .	31.4	6

#	Article	IF	Citations
19	Probing autoionizing states of molecular oxygen with XUV transient absorption: Electronic-symmetry-dependent line shapes and laser-induced modifications. Physical Review A, 2017, 95, .	2.5	28
20	XUV Transient Absorption Spectroscopy: Probing Laser-Perturbed Dipole Polarization in Single Atom, Macroscopic, and Molecular Regimes. Photonics, 2017, 4, 17.	2.0	4
21	Investigating Impulsive Strong Field Perturbation of Molecular Rydberg States with XUV Transient Absorption. , 2017, , .		0
22	Control of Laser Induced Couplings in Autoionizing States by XUV Transient Absorption. , 2017, , .		0
23	Attosecond transient absorption in dense gases: Exploring the interplay between resonant pulse propagation and laser-induced line-shape control. Physical Review A, 2016, 93, .	2.5	17
24	Attosecond XUV Transient Absorption in Dense Systems: Interplay between Strong-field Effects and Resonant Pulse Propagation. , 2016, , .		0
25	Investigation of Non-adiabatic Molecular Dynamics with Attosecond Transient Absorption. , 2015, , .		0
26	Beyond the Single-Atom Response in Absorption Line Shapes: Probing a Dense, Laser-Dressed Helium Gas with Attosecond Pulse Trains. Physical Review Letters, 2015, 114, 143002.	7.8	35
27	Using Attosecond Transient Absorption to Study Non-Adiabatic Molecular Dynamics. , 2015, , .		0
28	Attosecond Transient Absorption: Spectral Lineshapes in Laser-dressed Atoms and Molecules. , 2014, , .		0
29	Lagrangian-Eulerian Micromotion and Wave Heating in Nonlinear Self-Excited Dust-Acoustic Waves. Physical Review Letters, 2008, 100, 185004.	7.8	45
30	Dusty Plasma Bubble - Dust Acoustic Wave Interaction. , 2007, , .		0
31	Dust Dynamics in Dusty Plasma Bubbles and Dust Acoustic Waves. , 2007, , .		0
32	Particle dynamics in dust acoustic waves and plasma bubbles of dusty plasmas. , 2007, , .		0
33	Explosion dynamics of dusty plasma liquids induced by laser ablation on suspended dust particles. Applied Physics Letters, 2006, 89, 101503.	3.3	4
34	Switching the Twist in X Rays with Magnets. Physics Magazine, 0, 14, .	0.1	0