

Lei Wei

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

415
citations

686830

13
h-index

887659

17
g-index

19
all docs

19
docs citations

19
times ranked

540
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical multipolar torque in structured electromagnetic fields: On helicity gradient torque, quadrupolar torque, and spin of the field gradient. <i>Physical Review B</i> , 2022, 105, .	1.1	6
2	Far-field and near-field directionality in acoustic scattering. <i>New Journal of Physics</i> , 2020, 22, 083016.	1.2	14
3	Momentum-Space Geometric Structure of Helical Evanescent Waves and Its Implications on Near-Field Directionality. <i>Physical Review Applied</i> , 2020, 13, .	1.5	13
4	Optical forces from near-field directionalities in planar structures. <i>Physical Review B</i> , 2019, 99, .	1.1	17
5	Interferometric Evanescent Wave Excitation of a Nanoantenna for Ultrasensitive Displacement and Phase Metrology. <i>Physical Review Letters</i> , 2018, 121, 193901.	2.9	26
6	Directional scattering from particles under evanescent wave illumination: the role of reactive power. <i>Optics Letters</i> , 2018, 43, 3393.	1.7	16
7	Efficiency of multi-beam Fourier phase gratings at 14 THz. <i>Optics Express</i> , 2017, 25, 6581.	1.7	26
8	Adding a spin to Kerker's condition: angular tuning of directional scattering with designed excitation. <i>Optics Letters</i> , 2017, 42, 1776.	1.7	20
9	Shaping the focal field of radially/azimuthally polarized phase vortex with Zernike polynomials. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 065608.	1.0	6
10	A Lanczos model-order reduction technique to efficiently simulate electromagnetic wave propagation in dispersive media. <i>Journal of Computational Physics</i> , 2016, 315, 348-362.	1.9	17
11	Accurate Feeding of Nanoantenna by Singular Optics for Nanoscale Translational and Rotational Displacement Sensing. <i>Physical Review Letters</i> , 2016, 117, 113903.	2.9	38
12	Excitation of the radiationless anapole mode. <i>Optica</i> , 2016, 3, 799.	4.8	128
13	Stretchable Binary Fresnel Lens for Focus Tuning. <i>Scientific Reports</i> , 2016, 6, 25348.	1.6	24
14	Efficient computation of the spontaneous decay rate of arbitrarily shaped 3D nanosized resonators: a Krylov model-order reduction approach. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	8
15	Broadband active tuning of unidirectional scattering from nanoantenna using combined radially and azimuthally polarized beams. <i>Optics Letters</i> , 2016, 41, 33.	1.7	24
16	High speed low power optical detection of sub-wavelength scatterer. <i>Review of Scientific Instruments</i> , 2015, 86, 123111.	0.6	14
17	Tunable binary Fresnel lens based on stretchable PDMS/CNT composite. , 2015, , .		3
18	Demonstration of an optimised focal field with long focal depth and high transmission obtained with the Extended Nijboer-Zernike theory. <i>Optics Express</i> , 2014, 22, 311.	1.7	15

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19	Demonstration of an optimised focal field with long focal depth and high transmission obtained with the Extended Nijboer-Zernike theory. , 2014, , .		0