

Wei-Qiang Ding

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

2,120
citations

236833

25
h-index

233338

45
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71
all docs

71
docs citations

71
times ranked

2016
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical manipulation from the microscale to the nanoscale: fundamentals, advances and prospects. Light: Science and Applications, 2017, 6, e17039-e17039.	7.7	441
2	Linear momentum increase and negative optical forces at dielectric interface. Nature Photonics, 2013, 7, 787-790.	15.6	137
3	Parallel LC circuit model for multi-band absorption and preliminary design of radiative cooling. Optics Express, 2014, 22, A1713.	1.7	114
4	Optical pulling forces and their applications. Advances in Optics and Photonics, 2020, 12, 288.	12.1	99
5	Chirality-assisted lateral momentum transfer for bidirectional enantioselective separation. Light: Science and Applications, 2020, 9, 62.	7.7	92
6	Photon momentum transfer in inhomogeneous dielectric mixtures and induced tractor beams. Light: Science and Applications, 2015, 4, e278-e278.	7.7	78
7	Dual-band infrared perfect absorber based on asymmetric T-shaped plasmonic array. Optics Express, 2014, 22, A335.	1.7	67
8	Ultra-high-contrast-ratio silicon Fano diode. Physical Review A, 2012, 85, .	1.0	64
9	Photonic tractor beams: a review. Advanced Photonics, 2019, 1, 1.	6.2	59
10	Compact and low crosstalk waveguide crossing using impedance matched metamaterial. Applied Physics Letters, 2010, 96, .	1.5	57
11	Three-dimensional super-resolution longitudinal magnetization spot arrays. Light: Science and Applications, 2017, 6, e17032-e17032.	7.7	54
12	Self-Induced Backaction Optical Pulling Force. Physical Review Letters, 2018, 120, 123901.	2.9	51
13	Achievement and steering of light-induced sub-wavelength longitudinal magnetization chain. Optics Express, 2015, 23, 21296.	1.7	49
14	Wide-angle and polarization independent perfect absorber based on one-dimensional fabrication-tolerant stacked array. Optics Express, 2015, 23, 21023.	1.7	48
15	Spherical and sub-wavelength longitudinal magnetization generated by tightly focusing radially polarized vortex beams. Optics Express, 2015, 23, 690.	1.7	48
16	Efficient beaming from photonic crystal waveguides via self-collimation effect. Applied Physics Letters, 2006, 89, 131120.	1.5	45
17	Engineering light-matter interaction for emerging optical manipulation applications. Nanophotonics, 2014, 3, 181-201.	2.9	42
18	Mode conversion enables optical pulling force in photonic crystal waveguides. Applied Physics Letters, 2017, 111, .	1.5	36

#	ARTICLE	IF	CITATIONS
19	Extraordinary Multipole Modes and Ultra-Enhanced Optical Lateral Force by Chirality. <i>Physical Review Letters</i> , 2020, 125, 043901.	2.9	35
20	Momentum-Topology-Induced Optical Pulling Force. <i>Physical Review Letters</i> , 2020, 124, 143901.	2.9	34
21	Omnidirectional and polarization insensitive nearly perfect absorber in one dimensional meta-structure. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	31
22	Optical pulling using evanescent mode in sub-wavelength channels. <i>Optics Express</i> , 2016, 24, 18436.	1.7	30
23	Fano resonant Ge ₂ Sb ₂ Te ₅ nanoparticles realize switchable lateral optical force. <i>Nanoscale</i> , 2016, 8, 5657-5666.	2.8	28
24	Computational coherent imaging by rotating a cylindrical lens. <i>Optics Express</i> , 2018, 26, 22110.	1.7	27
25	Arbitrary waveguide bends using isotropic and homogeneous metamaterial. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	26
26	Substrate and Fano Resonance Effects on the Reversal of Optical Binding Force between Plasmonic Cube Dimers. <i>Scientific Reports</i> , 2017, 7, 6938.	1.6	20
27	Three-dimensional visible-light capsule enclosing perfect supersized darkness via antiresolution. <i>Laser and Photonics Reviews</i> , 2014, 8, 743-749.	4.4	19
28	Spin-controlled orbital motion in tightly focused high-order Laguerre-Gaussian beams. <i>Optics Express</i> , 2016, 24, 3377.	1.7	18
29	Ultrashort slot polarization rotator with double paralleled nonlinear geometry slot crossings. <i>Optics Letters</i> , 2013, 38, 1984.	1.7	17
30	Superhybrid Mode-Enhanced Optical Torques on Mie-Resonant Particles. <i>Nano Letters</i> , 2022, 22, 1769-1777.	4.5	17
31	Nonreciprocal Giant Magneto-Optic Effects in Transition-Metal Dichalcogenides without Magnetic Field. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3805-3812.	2.1	15
32	Pulling cylindrical particles using a soft-nonparaxial tractor beam. <i>Scientific Reports</i> , 2017, 7, 652.	1.6	14
33	Plasmonic Spherical Heterodimers: Reversal of Optical Binding Force Based on the Forced Breaking of Symmetry. <i>Scientific Reports</i> , 2018, 8, 3164.	1.6	13
34	Equilibrium orientations of oblate spheroidal particles in single tightly focused Gaussian beams. <i>Optics Express</i> , 2014, 22, 18113.	1.7	11
35	Optical trapping of nanoparticles with tunable inter-distance using a multimode slot cavity. <i>Optics Express</i> , 2017, 25, 29761.	1.7	11
36	A Modular Design of Continuously Tunable Full Color Plasmonic Pixels with Broken Rotational Symmetry. <i>Advanced Functional Materials</i> , 2022, 32, 2108437.	7.8	11

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37	Generation of long-living entanglement between two distant three-level atoms in non-Markovian environments. Optics Express, 2017, 25, 10961.	1.7	10
38	Strong optical force and its confinement applications based on heterogeneous phosphorene pairs. Optics Express, 2018, 26, 23221.	1.7	10
39	Multi-rotation coherent imaging by a phase mask. Optics and Lasers in Engineering, 2021, 139, 106511.	2.0	10
40	Analysis on volume grating induced by femtosecond laser pulses. Optics Express, 2010, 18, 13640.	1.7	9
41	Ultra-short Silicon-On-Insulator (SOI) polarization rotator between a slot and a strip waveguide based on a nonlinear raised cosine flat-tip taper. Optics Express, 2013, 21, 14888.	1.7	9
42	Magneto-optical manifestation of bilayer silicene. Applied Physics Letters, 2017, 110, 141105.	1.5	9
43	Localization properties and the effects on multi-mode switching in discrete mode CCWs. Optics Communications, 2005, 248, 479-484.	1.0	8
44	Optical collection of multiple spheres in single tightly focused beams. Optics Communications, 2013, 311, 332-337.	1.0	8
45	Lorentz force and the optical pulling of multiple rayleigh particles outside the dielectric cylindrical waveguides. Annalen Der Physik, 2017, 529, 1600213.	0.9	8
46	Giant and tunable optical torque for micro-motors by increased force arm and resonantly enhanced force. Scientific Reports, 2018, 8, 2819.	1.6	7
47	Subwavelength optical trapping and transporting using a Bloch mode. Optics Letters, 2020, 45, 1886.	1.7	7
48	Broadband optical bistable switching in a one-dimensional nonlinear coupled cavity structure. Optics Communications, 2005, 246, 147-152.	1.0	6
49	Supermodes of photonic crystal CCWs and multimode bistable switchings with uniform thresholds. Optics Communications, 2006, 265, 500-505.	1.0	6
50	Efficient transmission of crossing dielectric slot waveguides. Optics Express, 2011, 19, 4756.	1.7	6
51	Driving many distant atoms into high-fidelity steady state entanglement via Lyapunov control. Optics Express, 2018, 26, 951.	1.7	6
52	One-step engineering many-atom NOON state. New Journal of Physics, 2018, 20, 093019.	1.2	5
53	Enhanced multi-rotation computational coherent imaging based on pre-illumination and simulated annealing compensation. Journal of Optics (United Kingdom), 2019, 21, 115701.	1.0	5
54	High efficiency second harmonic generation in one-dimensional photonic crystal coupled cavity structures. Optical Engineering, 2007, 46, 064602.	0.5	4

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55	Polarization Rotators in Add-Drop Filter Systems With Double-Ring Resonators. IEEE Photonics Technology Letters, 2014, 26, 976-979.	1.3	4
56	Fano Resonance by Symmetry Breaking Stub in a Metal-Dielectric-Metal Waveguide. Chinese Physics Letters, 2014, 31, 057301.	1.3	4
57	Measurement-induced multipartite entanglement for distant four-level atoms in Markovian and non-Markovian environments. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2044-2048.	0.9	4
58	Compensating the distorted OAM beams with near zero time delay. Applied Physics Letters, 2022, 121, .	1.5	4
59	Third-Order Self-Imaging with Thermal Light. Journal of the Physical Society of Japan, 2014, 83, 124402.	0.7	3
60	Multiparticle resonant optical sorting using a topological photonic structure. Photonics Research, 2022, 10, 297.	3.4	3
61	SELF-ASSEMBLED VOLUME GRATING IN SILICA GLASS INDUCED BY TIGHTLY FOCUSED FEMTOSECOND LASER PULSE. Journal of Nonlinear Optical Physics and Materials, 2009, 18, 625-632.	1.1	2
62	Beam interaction in one-dimensional inhomogeneous Kerr nonlinear arrays. Optics Communications, 2009, 282, 4609-4613.	1.0	2
63	Flexible optical manipulation of ring resonator by frequency detuning and double-port excitation. Optics Express, 2016, 24, 15863.	1.7	2
64	Engineering distributed atomic NOON states via single-photon detection. Quantum Information Processing, 2021, 20, 1.	1.0	1
65	Finite size effects on one dimensional coupled cavity optical waveguides. Optics Communications, 2004, 242, 437-444.	1.0	0
66	Inhibition of light tunneling in chirped and longitudinally modulated semi-infinite waveguide arrays. Optics Communications, 2011, 284, 4673-4676.	1.0	0
67	Nonlinear beam interactions in semi-infinite waveguide arrays. Optics Communications, 2011, 284, 2581-2586.	1.0	0
68	SIZE DEPENDENCE OF INTERBAND TRANSITIONS IN AI NANOPARTICLE. International Journal of Modern Physics B, 2011, 25, 3361-3369.	1.0	0
69	Asymmetrically coupled bus with tunable ring resonators for multiple functionalities: Fano resonance, asymmetrical transmission, and wavelength shifting. , 2012, , .		0
70	Efficient particle collection using concentric optical ring array. Journal of Optics (United Kingdom), 2021, 23, 045002.	1.0	0
71	Experimental Demonstration of Negative Optical Forces at Dielectric Interfaces. , 2013, , .		0