

# 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  
g-index

71  
all docs

71  
docs citations

71  
times ranked

2016  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Multiparticle resonant optical sorting using a topological photonic structure. <i>Photonics Research</i> , 2022, 10, 297.	3.4	3
3	Superhybrid Mode-Enhanced Optical Torques on Mie-Resonant Particles. <i>Nano Letters</i> , 2022, 22, 1769-1777.	4.5	17
4	Compensating the distorted OAM beams with near zero time delay. <i>Applied Physics Letters</i> , 2022, 121, .	1.5	4
5	Efficient particle collection using concentric optical ring array. <i>Journal of Optics (United Kingdom)</i> , 2021, 23, 045002.	1.0	0
6	Engineering distributed atomic NOON states via single-photon detection. <i>Quantum Information Processing</i> , 2021, 20, 1.	1.0	1
7	Multi-rotation coherent imaging by a phase mask. <i>Optics and Lasers in Engineering</i> , 2021, 139, 106511.	2.0	10
8	Extraordinary Multipole Modes and Ultra-Enhanced Optical Lateral Force by Chirality. <i>Physical Review Letters</i> , 2020, 125, 043901.	2.9	35
9	Momentum-Topology-Induced Optical Pulling Force. <i>Physical Review Letters</i> , 2020, 124, 143901.	2.9	34
10	Chirality-assisted lateral momentum transfer for bidirectional enantioselective separation. <i>Light: Science and Applications</i> , 2020, 9, 62.	7.7	92
11	Optical pulling forces and their applications. <i>Advances in Optics and Photonics</i> , 2020, 12, 288.	12.1	99
12	Subwavelength optical trapping and transporting using a Bloch mode. <i>Optics Letters</i> , 2020, 45, 1886.	1.7	7
13	Enhanced multi-rotation computational coherent imaging based on pre-illumination and simulated annealing compensation. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 115701.	1.0	5
14	Photonic tractor beams: a review. <i>Advanced Photonics</i> , 2019, 1, 1.	6.2	59
15	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
16	Giant and tunable optical torque for micro-motors by increased force arm and resonantly enhanced force. <i>Scientific Reports</i> , 2018, 8, 2819.	1.6	7
17	Self-Induced Backaction Optical Pulling Force. <i>Physical Review Letters</i> , 2018, 120, 123901.	2.9	51
18	One-step engineering many-atom NOON state. <i>New Journal of Physics</i> , 2018, 20, 093019.	1.2	5

#	ARTICLE	IF	CITATIONS
19	Driving many distant atoms into high-fidelity steady state entanglement via Lyapunov control. Optics Express, 2018, 26, 951.	1.7	6
20	Computational coherent imaging by rotating a cylindrical lens. Optics Express, 2018, 26, 22110.	1.7	27
21	Strong optical force and its confinement applications based on heterogeneous phosphorene pairs. Optics Express, 2018, 26, 23221.	1.7	10
22	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
23	Magneto-optical manifestation of bilayer silicene. Applied Physics Letters, 2017, 110, 141105.	1.5	9
24	Optical manipulation from the microscale to the nanoscale: fundamentals, advances and prospects. Light: Science and Applications, 2017, 6, e17039-e17039.	7.7	441
25	Three-dimensional super-resolution longitudinal magnetization spot arrays. Light: Science and Applications, 2017, 6, e17032-e17032.	7.7	54
26	Pulling cylindrical particles using a soft-nonparaxial tractor beam. Scientific Reports, 2017, 7, 652.	1.6	14
27	Nonreciprocal Giant Magneto-Optic Effects in Transition-Metal Dichalcogenides without Magnetic Field. Journal of Physical Chemistry Letters, 2017, 8, 3805-3812.	2.1	15
28	Substrate and Fano Resonance Effects on the Reversal of Optical Binding Force between Plasmonic Cube Dimers. Scientific Reports, 2017, 7, 6938.	1.6	20
29	Mode conversion enables optical pulling force in photonic crystal waveguides. Applied Physics Letters, 2017, 111, .	1.5	36
30	Lorentz force and the optical pulling of multiple rayleigh particles outside the dielectric cylindrical waveguides. Annalen Der Physik, 2017, 529, 1600213.	0.9	8
31	Optical trapping of nanoparticles with tunable inter-distance using a multimode slot cavity. Optics Express, 2017, 25, 29761.	1.7	11
32	Generation of long-living entanglement between two distant three-level atoms in non-Markovian environments. Optics Express, 2017, 25, 10961.	1.7	10
33	Flexible optical manipulation of ring resonator by frequency detuning and double-port excitation. Optics Express, 2016, 24, 15863.	1.7	2
34	Optical pulling using evanescent mode in sub-wavelength channels. Optics Express, 2016, 24, 18436.	1.7	30
35	Spin-controlled orbital motion in tightly focused high-order Laguerre-Gaussian beams. Optics Express, 2016, 24, 3377.	1.7	18
36	Fano resonant Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> nanoparticles realize switchable lateral optical force. Nanoscale, 2016, 8, 5657-5666.	2.8	28

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37	Wide-angle and polarization independent perfect absorber based on one-dimensional fabrication-tolerant stacked array. Optics Express, 2015, 23, 21023.	1.7	48
38	Spherical and sub-wavelength longitudinal magnetization generated by 4f€ tightly focusing radially polarized vortex beams. Optics Express, 2015, 23, 690.	1.7	48
39	Achievement and steering of light-induced sub-wavelength longitudinal magnetization chain. Optics Express, 2015, 23, 21296.	1.7	49
40	Photon momentum transfer in inhomogeneous dielectric mixtures and induced tractor beams. Light: Science and Applications, 2015, 4, e278-e278.	7.7	78
41	Third-Order Self-Imaging with Thermal Light. Journal of the Physical Society of Japan, 2014, 83, 124402.	0.7	3
42	Equilibrium orientations of oblate spheroidal particles in single tightly focused Gaussian beams. Optics Express, 2014, 22, 18113.	1.7	11
43	Three-dimensional visible-light capsule enclosing perfect supersized darkness via antiresolution. Laser and Photonics Reviews, 2014, 8, 743-749.	4.4	19
44	Omnidirectional and polarization insensitive nearly perfect absorber in one dimensional meta-structure. Applied Physics Letters, 2014, 105, .	1.5	31
45	Polarization Rotators in Add-Drop Filter Systems With Double-Ring Resonators. IEEE Photonics Technology Letters, 2014, 26, 976-979.	1.3	4
46	Fano Resonance by Symmetry Breaking Stub in a Metal-Dielectric-Metal Waveguide. Chinese Physics Letters, 2014, 31, 057301.	1.3	4
47	Parallel LC circuit model for multi-band absorption and preliminary design of radiative cooling. Optics Express, 2014, 22, A1713.	1.7	114
48	Dual-band infrared perfect absorber based on asymmetric T-shaped plasmonic array. Optics Express, 2014, 22, A335.	1.7	67
49	Engineering light-matter interaction for emerging optical manipulation applications. Nanophotonics, 2014, 3, 181-201.	2.9	42
50	Linear momentum increase and negative optical forces at dielectric interface. Nature Photonics, 2013, 7, 787-790.	15.6	137
51	Optical collection of multiple spheres in single tightly focused beams. Optics Communications, 2013, 311, 332-337.	1.0	8
52	Ultrashort slot polarization rotator with double paralleled nonlinear geometry slot crossings. Optics Letters, 2013, 38, 1984.	1.7	17
53	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
54	Experimental Demonstration of Negative Optical Forces at Dielectric Interfaces. , 2013, , .		0

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55	Ultrahigh-contrast-ratio silicon Fano diode. <i>Physical Review A</i> , 2012, 85, .	1.0	64
56	Asymmetrically coupled bus with tunable ring resonators for multiple functionalities: Fano resonance, asymmetrical transmission, and wavelength shifting. , 2012, , .		0
57	Efficient transmission of crossing dielectric slot waveguides. <i>Optics Express</i> , 2011, 19, 4756.	1.7	6
58	Inhibition of light tunneling in chirped and longitudinally modulated semi-infinite waveguide arrays. <i>Optics Communications</i> , 2011, 284, 4673-4676.	1.0	0
59	Nonlinear beam interactions in semi-infinite waveguide arrays. <i>Optics Communications</i> , 2011, 284, 2581-2586.	1.0	0
60	SIZE DEPENDENCE OF INTERBAND TRANSITIONS IN AI NANOPARTICLE. <i>International Journal of Modern Physics B</i> , 2011, 25, 3361-3369.	1.0	0
61	Arbitrary waveguide bends using isotropic and homogeneous metamaterial. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	26
62	Compact and low crosstalk waveguide crossing using impedance matched metamaterial. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	57
63	Analysis on volume grating induced by femtosecond laser pulses. <i>Optics Express</i> , 2010, 18, 13640.	1.7	9
64	SELF-ASSEMBLED VOLUME GRATING IN SILICA GLASS INDUCED BY TIGHTLY FOCUSED FEMTOSECOND LASER PULSE. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2009, 18, 625-632.	1.1	2
65	Beam interaction in one-dimensional inhomogeneous Kerr nonlinear arrays. <i>Optics Communications</i> , 2009, 282, 4609-4613.	1.0	2
66	High efficiency second harmonic generation in one-dimensional photonic crystal coupled cavity structures. <i>Optical Engineering</i> , 2007, 46, 064602.	0.5	4
67	Efficient beaming from photonic crystal waveguides via self-collimation effect. <i>Applied Physics Letters</i> , 2006, 89, 131120.	1.5	45
68	Supermodes of photonic crystal CCWs and multimode bistable switchings with uniform thresholds. <i>Optics Communications</i> , 2006, 265, 500-505.	1.0	6
69	Broadband optical bistable switching in a one-dimensional nonlinear coupled cavity structure. <i>Optics Communications</i> , 2005, 246, 147-152.	1.0	6
70	Localization properties and the effects on multi-mode switching in discrete mode CCWs. <i>Optics Communications</i> , 2005, 248, 479-484.	1.0	8
71	Finite size effects on one dimensional coupled cavity optical waveguides. <i>Optics Communications</i> , 2004, 242, 437-444.	1.0	0