

# Zhifang Lin

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6327971/publications.pdf>

Version: 2024-02-01

49  
papers

1,966  
citations

331670

21  
h-index

243625

44  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1408  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical pulling force. Nature Photonics, 2011, 5, 531-534.	31.4	568
2	One-way edge mode in a magneto-optical honeycomb photonic crystal. Physical Review B, 2009, 80, .	3.2	170
3	Electromagnetic scattering by optically anisotropic magnetic particle. Physical Review E, 2004, 69, 056614.	2.1	78
4	Magnetically controllable unidirectional electromagnetic waveguiding devices designed with metamaterials. Applied Physics Letters, 2010, 97, .	3.3	78
5	Dynamical and phase-diagram study on stable optical pulling force in Bessel beams. Physical Review A, 2013, 87, .	2.5	72
6	Molding reflection from metamaterials based on magnetic surface plasmons. Physical Review B, 2011, 84, .	3.2	66
7	Formation of robust and completely tunable resonant photonic band gaps. Physical Review B, 2008, 78, .	3.2	65
8	Abruptly autofocusing property and optical manipulation of circular Airy beams. Physical Review A, 2019, 99, .	2.5	59
9	Chirality sorting using two-wave-interferenceâ€‘induced lateral optical force. Physical Review A, 2016, 93, .	2.5	57
10	A simple design of an artificial electromagnetic black hole. Journal of Applied Physics, 2010, 108, .	2.5	53
11	Negative Optical Torque. Scientific Reports, 2014, 4, 6386.	3.3	51
12	Tailoring Optical Gradient Force and Optical Scattering and Absorption Force. Scientific Reports, 2017, 7, 18042.	3.3	51
13	Effective-medium theory for anisotropic magnetic metamaterials. Physical Review B, 2009, 80, .	3.2	48
14	Optical pulling at macroscopic distances. Science Advances, 2019, 5, eaau7814.	10.3	42
15	Tailoring azimuthal optical force on lossy chiral particles in Bessel beams. Physical Review A, 2014, 90, .	2.5	40
16	Guiding electromagnetic energy below the diffraction limit with dielectric particle arrays. Physical Review A, 2009, 79, .	2.5	38
17	Optical force on toroidal nanostructures: Toroidal dipole versus renormalized electric dipole. Physical Review A, 2015, 92, .	2.5	37
18	Graded index photonic hole: Analytical and rigorous full wave solution. Physical Review B, 2010, 82, .	3.2	33

#	ARTICLE	IF	CITATIONS
19	Experimental demonstration of surface morphology independent electromagnetic chiral edge states originated from magnetic plasmon resonance. <i>Applied Physics Letters</i> , 2012, 101, 081912.	3.3	31
20	Scattering of electromagnetic waves from a cone with conformal mapping: Application to scanning near-field optical microscope. <i>Physical Review B</i> , 2018, 97, .	3.2	28
21	Dielectric-based extremely-low-loss subwavelength-light transport at the nanoscale: An alternative to surface-plasmon-mediated waveguiding. <i>Physical Review A</i> , 2011, 83, .	2.5	26
22	Dynamic response times of electrorheological fluids in steady shear. <i>Journal of Applied Physics</i> , 1998, 83, 1125-1131.	2.5	21
23	Lateral Optical Force due to the Breaking of Electric-Magnetic Symmetry. <i>Physical Review Letters</i> , 2020, 125, 073901.	7.8	21
24	Reconfigurable lateral optical force achieved by selectively exciting plasmonic dark modes near Fano resonance. <i>Physical Review A</i> , 2017, 96, .	2.5	19
25	General formulations for computing the optical gradient and scattering forces on a spherical chiral particle immersed in generic monochromatic optical fields. <i>Physical Review A</i> , 2020, 101, .	2.5	18
26	Non-Hermitian physics for optical manipulation uncovers inherent instability of large clusters. <i>Nature Communications</i> , 2021, 12, 6597.	12.8	18
27	Manipulating Unidirectional Edge States Via Magnetic Plasmonic Gradient Metasurfaces. <i>Plasmonics</i> , 2017, 12, 1079-1090.	3.4	17
28	Approach to fully decomposing an optical force into conservative and nonconservative components. <i>Physical Review A</i> , 2019, 100, .	2.5	17
29	Robust and Tunable One-Way Magnetic Surface Plasmon Waveguide: An Experimental Demonstration. <i>Plasmonics</i> , 2012, 7, 287-291.	3.4	16
30	Gradient and scattering forces of anti-reflection-coated spheres in an aplanatic beam. <i>Scientific Reports</i> , 2018, 8, 17423.	3.3	14
31	Magnetic resonance of slotted circular cylinder resonators. <i>Journal of Applied Physics</i> , 2008, 104, 014907.	2.5	13
32	Optical gradient force in the absence of light intensity gradient. <i>Physical Review B</i> , 2021, 103, .	3.2	11
33	Self-biased magnetic left-handed material. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	10
34	Molding the flow of electromagnetic waves and creating a mirage with a magnetic field. <i>Physical Review A</i> , 2008, 78, .	2.5	9
35	Electric Symmetric Dipole Modes Enabling Retroreflection from an Array Consisting of Homogeneous Isotropic Linear Dielectric Rods. <i>Advanced Optical Materials</i> , 2020, 8, 2000452.	7.3	9
36	Optical Twist Induced by Plasmonic Resonance. <i>Scientific Reports</i> , 2016, 6, 27927.	3.3	8

#	ARTICLE	IF	CITATIONS
37	Optical binding and lateral forces on chiral particles in linearly polarized plane waves. Physical Review A, 2020, 101, .	2.5	8
38	Circular Airy beam with an arbitrary conical angle beyond the paraxial approximation. Physical Review A, 2022, 105, .	2.5	8
39	Tailoring the gradient and scattering forces for longitudinal sorting of generic-size chiral particles. Optics Letters, 2020, 45, 4515.	3.3	7
40	DYNAMIC SIMULATION STUDIES OF STRUCTURAL FORMATION AND TRANSITION IN ELECTRO-MAGNETO-RHEOLOGICAL FLUIDS. International Journal of Modern Physics B, 2001, 15, 842-850.	2.0	6
41	Extremely strong bipolar optical interactions in paired graphene nanoribbons. Physical Chemistry Chemical Physics, 2016, 18, 8561-8569.	2.8	6
42	Analytically decomposing optical force on a spherical particle in Bessel beams into conservative and non-conservative parts. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 67.	2.1	6
43	Magnetic surface plasmon-induced tunable photonic bandgaps in two-dimensional magnetic photonic crystals. Applied Physics A: Materials Science and Processing, 2011, 105, 789-793.	2.3	5
44	Quantitative study of conservative gradient force and non-conservative scattering force exerted on a spherical particle in optical tweezers. Optics Express, 2021, 29, 25377.	3.4	5
45	Controlling fluctuations in small structures: Hidden information in the noise. Physical Review B, 2021, 104, .	3.2	2
46	Lateral optical force along the translationally invariant direction of optical fields formed by circularly polarized plane waves. Physical Review A, 2021, 104, .	2.5	1
47	LATTICE BOLTZMANN SIMULATION OF DEFORMABLE MEMBRANE IN FLUID. International Journal of Modern Physics B, 2003, 17, 149-152.	2.0	0
48	PHOTONIC MOLECULES ORGANIZED BY LIGHT. , 2011, , 113-140.		0
49	Unidirectionally molding electromagnetic waves with magnetic metamaterials and metasurfaces. , 2016, , .		0