

Zheng-Gao Dong

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

1,963
citations

279798

23
h-index

265206

42
g-index

81
all docs

81
docs citations

81
times ranked

1763
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced sensing performance by the plasmonic analog of electromagnetically induced transparency in active metamaterials. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	213
2	Plasmonically induced transparent magnetic resonance in a metallic metamaterial composed of asymmetric double bars. <i>Optics Express</i> , 2010, 18, 18229.	3.4	132
3	Flexible transformation plasmonics using graphene. <i>Optics Express</i> , 2013, 21, 10475.	3.4	117
4	Optical toroidal dipolar response by an asymmetric double-bar metamaterial. <i>Applied Physics Letters</i> , 2012, 101, 144105.	3.3	107
5	Toroidal dipole response in a multifold double-ring metamaterial. <i>Optics Express</i> , 2012, 20, 13065.	3.4	104
6	Coupling effect of magnetic polariton in perforated metal/dielectric layered metamaterials and its influence on negative refraction transmission. <i>Optics Express</i> , 2006, 14, 11155.	3.4	83
7	All-optical Hall effect by the dynamic toroidal moment in a cavity-based metamaterial. <i>Physical Review B</i> , 2013, 87, .	3.2	64
8	Experimental Demonstration of Multidimensional and Multifunctional Metalenses Based on Photonic Spin Hall Effect. <i>ACS Photonics</i> , 2020, 7, 512-518.	6.6	62
9	Efficient manipulation of surface plasmon polariton waves in graphene. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	56
10	Beam-scanning planar lens based on graphene. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	54
11	Numerical simulations of negative-index refraction in wedge-shaped metamaterials. <i>Physical Review E</i> , 2005, 72, 016607.	2.1	53
12	Role of asymmetric environment on the dark mode excitation in metamaterial analogue of electromagnetically-induced transparency. <i>Optics Express</i> , 2010, 18, 22412.	3.4	53
13	Optical loss compensation in a bulk left-handed metamaterial by the gain in quantum dots. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	48
14	Non-left-handed transmission and bianisotropic effect in α -shaped metallic metamaterial. <i>Physical Review B</i> , 2007, 75, .	3.2	46
15	Excitation of plasmon toroidal mode at optical frequencies by angle-resolved reflection. <i>Optics Letters</i> , 2014, 39, 6683.	3.3	40
16	Oxygen-related dielectric relaxation and leakage characteristics of Pt/(Ba,Sr)TiO ₃ /Pt thin-film capacitors. <i>Applied Physics Letters</i> , 2002, 80, 2538-2540.	3.3	37
17	Analogue of electromagnetically induced transparency by doubly degenerate modes in a U-shaped metamaterial. <i>Applied Physics Letters</i> , 2013, 102, 034106.	3.3	37
18	Negative refraction with magnetic resonance in a metallic double-ring metamaterial. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	36

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19	Metamaterial of rod pairs standing on gold plate and its negative refraction property in the far-infrared frequency regime. <i>Physical Review E</i> , 2007, 75, 016604.	2.1	35
20	Toroidal dipolar response by a dielectric microtube metamaterial in the terahertz regime. <i>Optics Express</i> , 2015, 23, 29138.	3.4	35
21	Resonance amplification of left-handed transmission at optical frequencies by stimulated emission of radiation in active metamaterials. <i>Optics Express</i> , 2008, 16, 20974.	3.4	24
22	Transparency window for the absorptive dipole resonance in a symmetry-reduced grating structure. <i>Optics Express</i> , 2012, 20, 7206.	3.4	23
23	Photonic spin Hall effect by the spin-orbit interaction in a metasurface with elliptical nano-structures. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	23
24	A planar electromagnetic "black hole" based on graphene. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 1468-1471.	2.1	22
25	From non- to super-radiating manipulation of a dipolar emitter coupled to a toroidal metastructure. <i>Optics Express</i> , 2015, 23, 29384.	3.4	21
26	Experimental verification of asymmetric transmission in continuous omega-shaped metamaterials. <i>RSC Advances</i> , 2018, 8, 38556-38561.	3.6	21
27	Enhanced asymmetric transmissions attributed to the cavity coupling hybrid resonance in a continuous omega-shaped metamaterial. <i>Optics Express</i> , 2018, 26, 3508.	3.4	20
28	Dual-mode subwavelength trapping by plasmonic tweezers based on V-type nanoantennas. <i>Optics Letters</i> , 2019, 44, 319.	3.3	19
29	Four-channel display and encryption by near-field reflection on nanoprinting metasurface. <i>Nanophotonics</i> , 2022, 11, 3365-3374.	6.0	19
30	Fatigue-free La-modified PbTiO ₃ thin films prepared by pulsed-laser deposition on Pt/Ti/SiO ₂ /Si substrates. <i>Applied Physics Letters</i> , 2003, 82, 1449-1451.	3.3	18
31	Coupling of electromagnetic waves and superlattice vibrations in a piezomagnetic superlattice: Creation of a polariton through the piezomagnetic effect. <i>Physical Review B</i> , 2005, 71, .	3.2	18
32	Optical Pulling Forces Enabled by Hyperbolic Metamaterials. <i>Nano Letters</i> , 2021, 21, 10431-10437.	9.1	18
33	Modeling the directed transmission and reflection enhancements of the lasing surface plasmon amplification by stimulated emission of radiation in active metamaterials. <i>Physical Review B</i> , 2009, 80, .	3.2	17
34	Polarization conversions of linearly and circularly polarized lights through a plasmon-induced transparent metasurface. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	17
35	Spin-dependent dual-wavelength multiplexing metalens. <i>Optics Letters</i> , 2020, 45, 5258.	3.3	17
36	Toroidal-dipole induced plasmonic perfect absorber. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 485301.	2.8	16

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37	Plasmonic metamaterial based on the complementary split ring resonators using graphene. Journal Physics D: Applied Physics, 2014, 47, 325102.	2.8	15
38	Unidirectional cross polarization rotator with enhanced broadband transparency by cascading twisted nanobars. Journal of Optics (United Kingdom), 2016, 18, 055004.	2.2	12
39	Optical responses of magnetic-vortex resonance in double-disk metamaterial variations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1871-1875.	2.1	11
40	Broadband high-efficiency transmission asymmetry by a chiral bilayer bar metastructure. Journal of Applied Physics, 2015, 117, 173102.	2.5	11
41	Dual-band toroidal-dipole-induced transparency in optical regime. Journal Physics D: Applied Physics, 2016, 49, 345104.	2.8	11
42	Optical non-reciprocity induced by asymmetrical dispersion of Tamm plasmon polaritons in terahertz magnetoplasmonic crystals. Optics Express, 2018, 26, 33613.	3.4	11
43	Growth and optical properties of Ge oxide thin film on silicon substrate by pulsed laser deposition. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 331, 248-251.	2.1	10
44	Negative index of refraction in metallic metamaterial comprising split-ring resonators. Physical Review E, 2008, 77, 056609.	2.1	10
45	Broadband asymmetric transmission by rotated bilayer cross-shaped metamaterials. Journal Physics D: Applied Physics, 2015, 48, 485306.	2.8	10
46	Numerical simulations of negative-index refraction in a lamellar composite with alternating single negative layers. Chinese Physics B, 2006, 15, 1772-1776.	1.3	9
47	Parametric simulations of the metallic double-ring metamaterials: Geometric optimization and terahertz response. Journal of Applied Physics, 2009, 105, 034907.	2.5	9
48	Optical force enhancement and annular trapping by plasmonic toroidal resonance in a double-disk metastructure. Optics Express, 2016, 24, 27563.	3.4	9
49	Dual-wavelength complementary grayscale imaging by an ultrathin metasurface. Optics Letters, 2020, 45, 5181.	3.3	8
50	Enhanced circular dichroism based on the dual-chiral metamaterial in terahertz regime. Chinese Physics B, 2016, 25, 058103.	1.4	7
51	All-metal metasurface polarization converter in visible region with an in-band function. Applied Physics Express, 2019, 12, 092010.	2.4	7
52	Toroidal dipole resonance in an asymmetric double-disk metamaterial. Optics Express, 2020, 28, 38076.	3.4	7
53	Multidimensional trapping by dual-focusing cylindrical vector beams with all-silicon metalens. Photonics Research, 2022, 10, 1162.	7.0	7
54	Strong ultraviolet emission from SiO ₂ /LiNbO ₃ (:Fe)/SiO ₂ structures. Applied Physics Letters, 2003, 82, 4456-4458.	3.3	6

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55	Stopping surface magneto-plasmons by non-reciprocal graded waveguides. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 398, 127279.	2.1	6
56	Spin-decoupled omnidirectional anomalous refraction based on a single metasurface. Applied Physics Letters, 2022, 120, 171701.	3.3	6
57	High-Q perfect absorption induced by the coupling of LSP and SPP modes. Journal of Applied Physics, 2021, 129, .	2.5	5
58	Nd-doped GdVO4 films prepared by pulsed-laser deposition on SiO2/Si substrate. Applied Physics Letters, 2005, 86, 151908.	3.3	4
59	Optical and spectral characteristics of highly-axis oriented Nd:LiNbO3 film on SiO2/Si substrate by PLD. Journal Physics D: Applied Physics, 2007, 40, 1442-1446.	2.8	4
60	The metamaterial analogue of electromagnetically induced transparency by dual-mode excitation of a symmetric resonator. Chinese Physics B, 2013, 22, 107804.	1.4	4
61	The giant enhancement of Fano-type resonance in a gain-assisted silicon slab array. Chinese Physics B, 2013, 22, 044209.	1.4	4
62	Grayscale image for broadband linear polarization measurement by an ultracompact metasurface. Optics Letters, 2021, 46, 1117.	3.3	4
63	Perfect absorption induced by plasmon toroidal mode for hot electron based NIR photo-detection. Applied Physics Express, 2020, 13, 122003.	2.4	4
64	Nonreciprocal transparency in asymmetric gyrotropic trimers. Physical Review Research, 2022, 4, .	3.6	4
65	Tunable terahertz toroidal response by graphene metamaterials. Materials Research Express, 2019, 6, 075805.	1.6	3
66	Collective resonances in a circular array of gyromagnetic rods. Physical Review B, 2020, 101, .	3.2	3
67	Engineering multimode resonances for tunable multifrequency superscattering. Optics Express, 2022, 30, 1219.	3.4	3
68	Omnidirectional magnetic-resonance transmission and its elimination in a metallic metamaterial comprising rings and plates. Physical Review E, 2008, 78, 066612.	2.1	2
69	Fast roll-off and sensitivity of a transparency window with dual magnetic resonant modes from a split double-ring metamaterial. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 1148-1151.	2.1	2
70	Super-radiating manipulation of a nano-emitter by active toroidal metamaterials. Scientific Reports, 2017, 7, 46609.	3.3	2
71	Negative optical torque in spin-dependent 2D chiral nanomotor due to dipolar scattering. Optics Communications, 2021, 482, 126560.	2.1	2
72	Cylindroid rigid-wall simulation of the influence of gas pressure in pulsed laser deposition of LiNbO3 films. Applied Physics Letters, 2003, 82, 619-621.	3.3	1

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73	Lamellar model of the left-handed metamaterials composed of metallic split-ring resonators and wires. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 4667-4670.	2.1	1
74	Low-Threshold Surface Plasmon Lasing using the Band Edge Mode in a Bi-Periodic Groove Array. Chinese Physics Letters, 2013, 30, 087805.	3.3	1
75	Tri-layer anisotropic metamaterial for unidirectional circular polarizer. , 2017, , .		1
76	Plasmonic hotspot in toroidal metamaterial. Materials Research Express, 2019, 6, 115807.	1.6	1
77	Multi-band asymmetric transmissions based on bi-layer windmill-shaped metamaterial. Chinese Physics B, 0, , .	1.4	1
78	Hybridization influence on the plasmon-mediated lasing effect in active metamaterials. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 4279-4282.	2.1	0
79	Light radiating-manipulation in toroidal metamaterial by the gain in quantum dots. , 2016, , .		0
80	Controlling fluorescence emission by plasmonic toroidal dipolar resonance in a ring-groove metastructure. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126742.	2.1	0
81	10.1063/1.4757613.1. , 2012, , .		0