

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
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81
all docs

81
docs citations

81
times ranked

1763
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering multimode resonances for tunable multifrequency superscattering. Optics Express, 2022, 30, 1219.	3.4	3
2	Nonreciprocal transparency in asymmetric gyrotropic trimers. Physical Review Research, 2022, 4, .	3.6	4
3	Multidimensional trapping by dual-focusing cylindrical vector beams with all-silicon metalens. Photonics Research, 2022, 10, 1162.	7.0	7
4	Spin-decoupled omnidirectional anomalous refraction based on a single metasurface. Applied Physics Letters, 2022, 120, 171701.	3.3	6
5	Four-channel display and encryption by near-field reflection on nanoprinting metasurface. Nanophotonics, 2022, 11, 3365-3374.	6.0	19
6	Negative optical torque in spin-dependent 2D chiral nanomotor due to dipolar scattering. Optics Communications, 2021, 482, 126560.	2.1	2
7	Grayscale image for broadband linear polarization measurement by an ultracompact metasurface. Optics Letters, 2021, 46, 1117.	3.3	4
8	High-Q perfect absorption induced by the coupling of LSP and SPP modes. Journal of Applied Physics, 2021, 129, .	2.5	5
9	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
10	Optical Pulling Forces Enabled by Hyperbolic Metamaterials. Nano Letters, 2021, 21, 10431-10437.	9.1	18
11	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
12	Collective resonances in a circular array of gyromagnetic rods. Physical Review B, 2020, 101, .	3.2	3
13	Experimental Demonstration of Multidimensional and Multifunctional Metalenses Based on Photonic Spin Hall Effect. ACS Photonics, 2020, 7, 512-518.	6.6	62
14	Toroidal dipole resonance in an asymmetric double-disk metamaterial. Optics Express, 2020, 28, 38076.	3.4	7
15	Spin-dependent dual-wavelength multiplexing metalens. Optics Letters, 2020, 45, 5258.	3.3	17
16	Dual-wavelength complementary grayscale imaging by an ultrathin metasurface. Optics Letters, 2020, 45, 5181.	3.3	8
17	Perfect absorption induced by plasmon toroidal mode for hot electron based NIR photo-detection. Applied Physics Express, 2020, 13, 122003.	2.4	4
18	Plasmonic hotspot in toroidal metamaterial. Materials Research Express, 2019, 6, 115807.	1.6	1

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19	All-metal metasurface polarization converter in visible region with an in-band function. Applied Physics Express, 2019, 12, 092010.	2.4	7
20	Tunable terahertz toroidal response by graphene metamaterials. Materials Research Express, 2019, 6, 075805.	1.6	3
21	Dual-mode subwavelength trapping by plasmonic tweezers based on V-type nanoantennas. Optics Letters, 2019, 44, 319.	3.3	19
22	Experimental verification of asymmetric transmission in continuous omega-shaped metamaterials. RSC Advances, 2018, 8, 38556-38561.	3.6	21
23	Enhanced asymmetric transmissions attributed to the cavity coupling hybrid resonance in a continuous omega-shaped metamaterial. Optics Express, 2018, 26, 3508.	3.4	20
24	Optical non-reciprocity induced by asymmetrical dispersion of Tamm plasmon polaritons in terahertz magnetoplasmonic crystals. Optics Express, 2018, 26, 33613.	3.4	11
25	Photonic spin Hall effect by the spin-orbit interaction in a metasurface with elliptical nano-structures. Applied Physics Letters, 2017, 110, .	3.3	23
26	Super-radiating manipulation of a nano-emitter by active toroidal metamaterials. Scientific Reports, 2017, 7, 46609.	3.3	2
27	Toroidal-dipole induced plasmonic perfect absorber. Journal Physics D: Applied Physics, 2017, 50, 485301.	2.8	16
28	Tri-layer anisotropic metamaterial for unidirectional circular polarizer. , 2017, , .		1
29	Optical force enhancement and annular trapping by plasmonic toroidal resonance in a double-disk metastructure. Optics Express, 2016, 24, 27563.	3.4	9
30	Enhanced circular dichroism based on the dual-chiral metamaterial in terahertz regime. Chinese Physics B, 2016, 25, 058103.	1.4	7
31	Dual-band toroidal-dipole-induced transparency in optical regime. Journal Physics D: Applied Physics, 2016, 49, 345104.	2.8	11
32	Light radiating-manipulation in toroidal metamaterial by the gain in quantum dots. , 2016, , .		0
33	Unidirectional cross polarization rotator with enhanced broadband transparency by cascading twisted nanobars. Journal of Optics (United Kingdom), 2016, 18, 055004.	2.2	12
34	From non- to super-radiating manipulation of a dipolar emitter coupled to a toroidal metastructure. Optics Express, 2015, 23, 29384.	3.4	21
35	Broadband asymmetric transmission by rotated bilayer cross-shaped metamaterials. Journal Physics D: Applied Physics, 2015, 48, 485306.	2.8	10
36	Broadband high-efficiency transmission asymmetry by a chiral bilayer bar metastructure. Journal of Applied Physics, 2015, 117, 173102.	2.5	11

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37	Toroidal dipolar response by a dielectric microtube metamaterial in the terahertz regime. Optics Express, 2015, 23, 29138.	3.4	35
38	Excitation of plasmon toroidal mode at optical frequencies by angle-resolved reflection. Optics Letters, 2014, 39, 6683.	3.3	40
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	Polarization conversions of linearly and circularly polarized lights through a plasmon-induced transparent metasurface. Journal of Applied Physics, 2014, 115, .	2.5	17
41	Plasmonic metamaterial based on the complementary split ring resonators using graphene. Journal Physics D: Applied Physics, 2014, 47, 325102.	2.8	15
42	Analogue of electromagnetically induced transparency by doubly degenerate modes in a U-shaped metamaterial. Applied Physics Letters, 2013, 102, 034106.	3.3	37
43	All-optical Hall effect by the dynamic toroidal moment in a cavity-based metamaterial. Physical Review B, 2013, 87, .	3.2	64
44	Flexible transformation plasmonics using graphene. Optics Express, 2013, 21, 10475.	3.4	117
45	The metamaterial analogue of electromagnetically induced transparency by dual-mode excitation of a symmetric resonator. Chinese Physics B, 2013, 22, 107804.	1.4	4
46	The giant enhancement of Fano-type resonance in a gain-assisted silicon slab array. Chinese Physics B, 2013, 22, 044209.	1.4	4
47	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
48	Optical toroidal dipolar response by an asymmetric double-bar metamaterial. Applied Physics Letters, 2012, 101, 144105.	3.3	107
49	Toroidal dipole response in a multifold double-ring metamaterial. Optics Express, 2012, 20, 13065.	3.4	104
50	Transparency window for the absorptive dipole resonance in a symmetry-reduced grating structure. Optics Express, 2012, 20, 7206.	3.4	23
51	Beam-scanning planar lens based on graphene. Applied Physics Letters, 2012, 100, .	3.3	54
52	Efficient manipulation of surface plasmon polariton waves in graphene. Applied Physics Letters, 2012, 100, .	3.3	56
53	A planar electromagnetic "black hole" based on graphene. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 1468-1471.	2.1	22
54	10.1063/1.4757613.1. , 2012, , .		0

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55	Fast roll-off and sensitivity of a transparency window with dual magnetic resonant modes from a split double-ring metamaterial. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 1148-1151.	2.1	2
56	Hybridization influence on the plasmon-mediated lasing effect in active metamaterials. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 4279-4282.	2.1	0
57	Enhanced sensing performance by the plasmonic analog of electromagnetically induced transparency in active metamaterials. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	213
58	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
59	Plasmonically induced transparent magnetic resonance in a metallic metamaterial composed of asymmetric double bars. <i>Optics Express</i> , 2010, 18, 18229.	3.4	132
60	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
61	Parametric simulations of the metallic double-ring metamaterials: Geometric optimization and terahertz response. <i>Journal of Applied Physics</i> , 2009, 105, 034907.	2.5	9
62	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
63	Lamellar model of the left-handed metamaterials composed of metallic split-ring resonators and wires. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 4667-4670.	2.1	1
64	Negative refraction with magnetic resonance in a metallic double-ring metamaterial. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	36
65	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
66	Negative index of refraction in metallic metamaterial comprising split-ring resonators. <i>Physical Review E</i> , 2008, 77, 056609.	2.1	10
67	Omnidirectional magnetic-resonance transmission and its elimination in a metallic metamaterial comprising rings and plates. <i>Physical Review E</i> , 2008, 78, 066612.	2.1	2
68	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
69	Non-left-handed transmission and bianisotropic effect in ϵ -shaped metallic metamaterial. <i>Physical Review B</i> , 2007, 75, .	3.2	46
70	Optical and spectral characteristics of highly c-axis oriented $\text{Nd}:\text{LiNbO}_3$ film on SiO_2/Si substrate by PLD. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 1442-1446.	2.8	4
71	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
72	Numerical simulations of negative-index refraction in a lamellar composite with alternating single negative layers. <i>Chinese Physics B</i> , 2006, 15, 1772-1776.	1.3	9

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73	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
74	Numerical simulations of negative-index refraction in wedge-shaped metamaterials. <i>Physical Review E</i> , 2005, 72, 016607.	2.1	53
75	Nd-doped GdVO ₄ films prepared by pulsed-laser deposition on SiO ₂ /Si substrate. <i>Applied Physics Letters</i> , 2005, 86, 151908.	3.3	4
76	Growth and optical properties of Ge oxide thin film on silicon substrate by pulsed laser deposition. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 331, 248-251.	2.1	10
77	Cylindroid rigid-wall simulation of the influence of gas pressure in pulsed laser deposition of LiNbO ₃ films. <i>Applied Physics Letters</i> , 2003, 82, 619-621.	3.3	1
78	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
79	Strong ultraviolet emission from SiO ₂ /LiNbO ₃ (:Fe)/SiO ₂ structures. <i>Applied Physics Letters</i> , 2003, 82, 4456-4458.	3.3	6
80	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
81	Multi-band asymmetric transmissions based on bi-layer windmill-shaped metamaterial. <i>Chinese Physics B</i> , 0, , .	1.4	1