

Yong Zhi Cheng

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1891123/publications.pdf>

Version: 2024-02-01

124
papers

6,819
citations

28242

55
h-index

71651

76
g-index

128
all docs

128
docs citations

128
times ranked

2719
citing authors

#	ARTICLE	IF	CITATIONS
1	Switchable efficiency terahertz anomalous refraction and focusing based on graphene metasurface. <i>Diamond and Related Materials</i> , 2022, 121, 108743.	1.8	70
2	Tri-band high-efficiency circular polarization convertor based on double-split-ring resonator structures. <i>Applied Physics B: Lasers and Optics</i> , 2022, 128, 1.	1.1	47
3	Bimetallic CoFe-MOF@Ti3C2Tx MXene derived composites for broadband microwave absorption. <i>Chemical Engineering Journal</i> , 2022, 431, 134007.	6.6	145
4	Efficiency adjustable terahertz circular polarization anomalous refraction and planar focusing based on a bi-layered complementary Z-shaped graphene metasurface. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2022, 39, 705.	0.9	39
5	Hollow Beaded Fe ₃ C/N-Doped Carbon Fibers toward Broadband Microwave Absorption. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 3084-3094.	4.0	103
6	A compact microwave bandpass filter based on spoof surface plasmon polariton and substrate integrated plasmonic waveguide structures. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	1.1	10
7	High-efficiency terahertz full-space metasurface for the transmission linear and reflection circular polarization wavefront manipulation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2022, 428, 127932.	0.9	40
8	Ultra-broadband high-efficiency circular polarization conversion and terahertz wavefront manipulation based on an all-metallic reflective metasurface. <i>Applied Optics</i> , 2022, 61, 4833.	0.9	18
9	High-gain bidirectional radiative circularly polarized antenna based on focusing metasurface. <i>AEU - International Journal of Electronics and Communications</i> , 2022, 151, 154222.	1.7	26
10	Construction of hollow core-shelled nitrogen-doped carbon-coated yttrium aluminum garnet composites toward efficient microwave absorption. <i>Journal of Colloid and Interface Science</i> , 2022, 622, 181-191.	5.0	30
11	Multi-interfacial magnetic carbon nanotubes encapsulated hydrangea-like NiMo/MoC/N-doped carbon composites for efficient microwave absorption. <i>Carbon</i> , 2022, 196, 828-839.	5.4	54
12	High-efficiency reflective metasurfaces for terahertz vortex wave generation based on completely independent geometric phase modulations at three frequencies. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2022, 39, 1752.	0.9	7
13	Terahertz Transmission-Type Metasurface for the Linear and Circular Polarization Wavefront Manipulation. <i>Advanced Theory and Simulations</i> , 2022, 5, .	1.3	15
14	Broadband reflective dual-functional polarization convertor based on all-metal metasurface in visible region. <i>Physica B: Condensed Matter</i> , 2022, 640, 414047.	1.3	26
15	Rational design and fabrication of optically transparent broadband microwave absorber with multilayer structure based on indium tin oxide. <i>Journal of Alloys and Compounds</i> , 2022, 920, 166008.	2.8	35
16	Broadband and thermally switchable reflective metasurface based on Z-shape InSb for terahertz vortex beam generation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 144, 115373.	1.3	27
17	Nickel/Nickel phosphide composite embedded in N-doped carbon with tunable electromagnetic properties toward high-efficiency microwave absorption. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 140, 106141.	3.8	85
18	High-efficiency ultrathin terahertz geometric metasurface for full-space wavefront manipulation at two frequencies. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 115101.	1.3	70

#	ARTICLE	IF	CITATIONS
19	Quad-band plasmonic perfect absorber using all-metal nanostructure metasurface for refractive index sensing. <i>Optik</i> , 2021, 229, 166300.	1.4	74
20	Wideband and high-gain patch antenna with reflective focusing metasurface. <i>AEU - International Journal of Electronics and Communications</i> , 2021, 134, 153709.	1.7	28
21	Optically switchable broadband metasurface absorber based on square ring shaped photoconductive silicon for terahertz waves. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 402, 127345.	0.9	75
22	Terahertz perfect absorber based on InSb metasurface for both temperature and refractive index sensing. <i>Optical Materials</i> , 2021, 117, 111129.	1.7	75
23	Terahertz broadband tunable reflective cross-polarization convertor based on complementary cross-shaped graphene metasurface. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 134, 114893.	1.3	72
24	Tunable terahertz circular polarization convertor based on graphene metamaterial. <i>Diamond and Related Materials</i> , 2021, 119, 108559.	1.8	57
25	1D magnetic nitrogen doped carbon-based fibers derived from NiFe Prussian blue analogues embedded polyacrylonitrile via electrospinning with tunable microwave absorption. <i>Composites Part B: Engineering</i> , 2021, 224, 109161.	5.9	85
26	Plasmonic Chiral Metasurface Absorber Based on Bilayer Fourfold Twisted Semicircle Nanostructure at Optical Frequency. <i>Nanoscale Research Letters</i> , 2021, 16, 12.	3.1	66
27	Bimetallic Oxalate Rod-Derived NiFe/Fe ₃ O ₄ @C Composites with Tunable Magneto-dielectric Properties for High-Performance Microwave Absorption. <i>Journal of Physical Chemistry C</i> , 2021, 125, 24540-24549.	1.5	18
28	Broadband high-efficiency cross-polarization conversion and multi-functional wavefront manipulation based on chiral structure metasurface for terahertz wave. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 025109.	1.3	152
29	Synthesis of yolk-shell structured carbonyl iron@void@nitrogen doped carbon for enhanced microwave absorption performance. <i>Journal of Alloys and Compounds</i> , 2020, 812, 152083.	2.8	88
30	Dual-Band and High-Efficiency Circular Polarization Convertor Based on Anisotropic Metamaterial. <i>IEEE Access</i> , 2020, 8, 7615-7621.	2.6	85
31	Broadband tunable terahertz metasurface absorber based on complementary-wheel-shaped graphene. <i>Optical Materials</i> , 2020, 109, 110369.	1.7	64
32	Temperature Tunable Narrow-Band Terahertz Metasurface Absorber Based on InSb Micro-Cylinder Arrays for Enhanced Sensing Application. <i>IEEE Access</i> , 2020, 8, 82981-82988.	2.6	82
33	A thermally tunable terahertz three-dimensional perfect metamaterial absorber for temperature sensing application. <i>Modern Physics Letters B</i> , 2020, 34, 2050207.	1.0	31
34	Broadband metamaterial microwave absorber based on asymmetric sectional resonator structures. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	67
35	Design and analysis of 2-bit matrix-type coding metasurface for stealth application. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	17
36	Thermally tunable terahertz metasurface absorber based on all dielectric indium antimonide resonator structure. <i>Optical Materials</i> , 2020, 102, 109801.	1.7	43

#	ARTICLE	IF	CITATIONS
37	A Broadband Tunable Terahertz Metamaterial Absorber Based on Single-Layer Complementary Gammadion-Shaped Graphene. <i>Materials</i> , 2020, 13, 860.	1.3	129
38	Dual-band tunable terahertz perfect metamaterial absorber based on strontium titanate (STO) resonator structure. <i>Optics Communications</i> , 2020, 462, 125265.	1.0	106
39	Compact and low-frequency broadband microwave metamaterial absorber based on meander wire structure loaded resistors. <i>AEU - International Journal of Electronics and Communications</i> , 2020, 120, 153198.	1.7	68
40	Multi-band giant circular dichroism based on conjugated bilayer twisted-semicircle nanostructure at optical frequency. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126398.	0.9	32
41	Triple-Band Perfect Light Absorber Based on Hybrid Metasurface for Sensing Application. <i>Nanoscale Research Letters</i> , 2020, 15, 103.	3.1	80
42	Dual-band terahertz perfect metasurface absorber based on bi-layered all-dielectric resonator structure. <i>Optical Materials</i> , 2019, 96, 109279.	1.7	38
43	Fe/Fe ₃ O ₄ @N-Doped Carbon Hexagonal Plates Decorated with Ag Nanoparticles for Microwave Absorption. <i>ACS Applied Nano Materials</i> , 2019, 2, 7266-7278.	2.4	43
44	Broadband plasmonic absorber based on all silicon nanostructure resonators in visible region. <i>Optical Materials</i> , 2019, 98, 109441.	1.7	47
45	Synergistic effect of silica coated porous rodlike nickel ferrite and multiwalled carbon nanotube with improved electromagnetic wave absorption performance. <i>Journal of Alloys and Compounds</i> , 2019, 802, 364-372.	2.8	60
46	Compact Ultra-Thin Seven-Band Microwave Metamaterial Absorber Based on a Single Resonator Structure. <i>Journal of Electronic Materials</i> , 2019, 48, 3939-3946.	1.0	64
47	Synthesis of nitrogen-doped graphene wrapped SnO ₂ hollow spheres as high-performance microwave absorbers. <i>RSC Advances</i> , 2019, 9, 10745-10753.	1.7	17
48	A multi-functional polarization convertor based on chiral metamaterial for terahertz waves. <i>Optics Communications</i> , 2019, 435, 178-182.	1.0	74
49	Design of a six-band terahertz metamaterial absorber for temperature sensing application. <i>Optical Materials</i> , 2019, 88, 674-679.	1.7	163
50	A broadband plasmonic light absorber based on a tungsten meander-ring-resonator in visible region. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	50
51	Dual-band and high-efficiency circular polarization conversion via asymmetric transmission with anisotropic metamaterial in the terahertz region. <i>Optical Materials Express</i> , 2019, 9, 1365.	1.6	57
52	Triple narrow-band plasmonic perfect absorber for refractive index sensing applications of optical frequency. <i>OSA Continuum</i> , 2019, 2, 2113.	1.8	78
53	Dual-band plasmonic perfect absorber based on all-metal nanostructure for refractive index sensing application. <i>Materials Letters</i> , 2018, 219, 123-126.	1.3	84
54	Design of a Photo-Excited Switchable Broadband Reflective Linear Polarization Conversion Metasurface for Terahertz Waves. <i>IEEE Photonics Journal</i> , 2018, 10, 1-10.	1.0	54

#	ARTICLE	IF	CITATIONS
55	Based on graphene tunable dual-band terahertz metamaterial absorber with wide-angle. Optics Communications, 2018, 415, 194-201.	1.0	157
56	Ultra-Thin Dual-Band Polarization-Insensitive and Wide-Angle Perfect Metamaterial Absorber Based on a Single Circular Sector Resonator Structure. Journal of Electronic Materials, 2018, 47, 323-328.	1.0	58
57	Tunable terahertz reflective linear polarization convertor based on oval-shape-perforated graphene metasurface. , 2018, , .		3
58	A Polarization-Insensitive Tunable Dual-Band Terahertz Metamaterial Absorber Based on Graphene Patch. , 2018, , .		0
59	Quad-Band Plasmonic Perfect Absorber for Visible Light with a Patchwork of Silicon Nanorod Resonators. Materials, 2018, 11, 1954.	1.3	16
60	Metal-Based Graphical SiO ₂ /Ag/ZnS/Ag Hetero-Structure for Visible-Infrared Compatible Camouflage. Materials, 2018, 11, 1594.	1.3	8
61	Multi-band terahertz chiral metasurface with giant optical activities and negative refractive index based on <i>T</i>-shaped resonators. Modern Physics Letters B, 2018, 32, 1850366.	1.0	10
62	Dual and broadband terahertz metamaterial absorber based on a compact resonator structure. Optical Materials Express, 2018, 8, 3104.	1.6	77
63	Ultrathin dual-band polarization angle independent 90° polarization rotator with giant optical activity based on planar chiral metamaterial. Applied Physics B: Lasers and Optics, 2018, 124, 1.	1.1	12
64	Chiral metamaterial absorber with high selectivity for terahertz circular polarization waves. Optical Materials Express, 2018, 8, 1399.	1.6	60
65	Design of a Broadband Tunable Terahertz Metamaterial Absorber Based on Complementary Structural Graphene. Materials, 2018, 11, 540.	1.3	83
66	Broadband Polarization Conversion Metasurface Based on Metal Cut-Wire Structure for Radar Cross Section Reduction. Materials, 2018, 11, 626.	1.3	43
67	Narrow Band Filter at 1550 nm Based on Quasi-One-Dimensional Photonic Crystal with a Mirror-Symmetric Heterostructure. Materials, 2018, 11, 1099.	1.3	27
68	Quasi-periodic photonic crystal Fabry-Perot optical filter based on Si/SiO ₂ for visible-laser spectral selectivity. Journal Physics D: Applied Physics, 2018, 51, 225103.	1.3	21
69	Study of Energy Scattering Relation and RCS Reduction Characteristic of Matrix-Type Coding Metasurface. Applied Sciences (Switzerland), 2018, 8, 1231.	1.3	20
70	An ultra-thin dual-band phase-gradient metasurface using hybrid resonant structures for backward RCS reduction. Applied Physics B: Lasers and Optics, 2017, 123, 1.	1.1	23
71	Influence of the geometry of a gammadion stereo-structure chiral metamaterial on optical properties. Journal of Modern Optics, 2017, 64, 1487-1494.	0.6	13
72	Ultra-broadband and high-efficiency reflective linear polarization convertor based on planar anisotropic metamaterial in microwave region. Optik, 2017, 136, 52-57.	1.4	40

#	ARTICLE	IF	CITATIONS
73	Design of a wideband reflective linear polarization converter based on the ladder-shaped structure metasurface. <i>Optik</i> , 2017, 137, 148-155.	1.4	45
74	Design and fabrication of energy efficient film based on one-dimensional photonic band gap structures. <i>Journal of Alloys and Compounds</i> , 2017, 697, 1-4.	2.8	5
75	Design of an ultrabroadband visible metamaterial absorber based on three-dimensional metallic nanostructures. <i>Modern Physics Letters B</i> , 2017, 31, 1750231.	1.0	27
76	Ultra-thin Low-Frequency Broadband Microwave Absorber Based on Magnetic Medium and Metamaterial. <i>Journal of Electronic Materials</i> , 2017, 46, 1293-1299.	1.0	62
77	Ultra-Broadband Linear Polarization Conversion via Diode-Like Asymmetric Transmission with Composite Metamaterial for Terahertz Waves. <i>Plasmonics</i> , 2017, 12, 1113-1120.	1.8	77
78	A photoexcited tunable circular dichroism with planar chiral metamaterial in terahertz region. , 2017, , .		1
79	Ultrathin Six-Band Polarization-Insensitive Perfect Metamaterial Absorber Based on a Cross-Cave Patch Resonator for Terahertz Waves. <i>Materials</i> , 2017, 10, 591.	1.3	83
80	Ultra-Thin Multi-Band Polarization-Insensitive Microwave Metamaterial Absorber Based on Multiple-Order Responses Using a Single Resonator Structure. <i>Materials</i> , 2017, 10, 1241.	1.3	76
81	ULTRABROADBAND DIODE-LIKE ASYMMETRIC TRANSMISSION AND HIGH-EFFICIENCY CROSS-POLARIZATION CONVERSION BASED ON COMPOSITE CHIRAL METAMATERIAL. <i>Progress in Electromagnetics Research</i> , 2017, 160, 89-101.	1.6	30
82	ULTRA-COMPACT MULTI-BAND CHIRAL METAMATERIAL CIRCULAR POLARIZER BASED ON TRIPLE TWISTED SPLIT-RING RESONATOR. <i>Progress in Electromagnetics Research</i> , 2016, 155, 105-113.	1.6	51
83	Design of an Ultrabroadband and High-efficiency Reflective Linear Polarization Converter at Optical Frequency. <i>IEEE Photonics Journal</i> , 2016, 8, 1-9.	1.0	27
84	A photoexcited switchable perfect metamaterial absorber/reflector with polarization-independent and wide-angle for terahertz waves. <i>Optical Materials</i> , 2016, 62, 28-33.	1.7	84
85	A high-efficiency and broadband reflective 90° linear polarization rotator based on anisotropic metamaterial. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1.	1.1	67
86	Design and characterization of one-dimensional photonic crystals based on ZnS/Ge for infrared-visible compatible stealth applications. <i>Optical Materials</i> , 2016, 62, 52-56.	1.7	83
87	Indefinite-permeability metamaterial lens with finite size for miniaturized wireless power transfer system. <i>AEU - International Journal of Electronics and Communications</i> , 2016, 70, 1282-1287.	1.7	38
88	Ultrabroadband Microwave Metamaterial Absorber Based on Electric SRR Loaded with Lumped Resistors. <i>Journal of Electronic Materials</i> , 2016, 45, 5033-5039.	1.0	76
89	Complementary Y-shaped chiral metamaterial with giant optical activity and circular dichroism simultaneously for terahertz waves. <i>Journal of Modern Optics</i> , 2016, 63, 1675-1680.	0.6	35
90	Infrared non-planar plasmonic perfect absorber for enhanced sensitive refractive index sensing. <i>Optical Materials</i> , 2016, 53, 195-200.	1.7	118

#	ARTICLE	IF	CITATIONS
91	A photoexcited broadband switchable metamaterial absorber with polarization-insensitive and wide-angle absorption for terahertz waves. Optics Communications, 2016, 361, 41-46.	1.0	123
92	Ultra-thin and polarization-independent phase gradient metasurface for high-efficiency spoof surface-plasmon-polariton coupling. Applied Physics Express, 2015, 8, 122001.	1.1	27
93	Ultrabroadband Plasmonic Absorber for Terahertz Waves. Advanced Optical Materials, 2015, 3, 376-380.	3.6	98
94	Plasmonics: Ultrabroadband Plasmonic Absorber for Terahertz Waves (Advanced Optical Materials) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.6	0
95	Perfect dual-band circular polarizer based on twisted split-ring structure asymmetric chiral metamaterial. Applied Optics, 2014, 53, 5763.	0.9	19
96	Design and realization of one-dimensional double hetero-structure photonic crystals for infrared-radar stealth-compatible materials applications. Journal of Applied Physics, 2014, 116, .	1.1	65
97	Ultrabroadband reflective polarization convertor for terahertz waves. Applied Physics Letters, 2014, 105, 181111.	1.5	186
98	Adjustable low frequency and broadband metamaterial absorber based on magnetic rubber plate and cross resonator. Journal of Applied Physics, 2014, 115, .	1.1	67
99	Low-frequency and broadband metamaterial absorber based on lumped elements: design, characterization and experiment. Applied Physics A: Materials Science and Processing, 2014, 117, 1915-1921.	1.1	70
100	Multi-band terahertz two-handed metamaterial based on the combined ring and cross pairs. Optik, 2014, 125, 2129-2133.	1.4	5
101	Circular polarization converters based on bi-layered asymmetrical split ring metamaterials. Applied Physics A: Materials Science and Processing, 2014, 116, 643-648.	1.1	65
102	Asymmetric chiral metamaterial circular polarizer based on twisted split-ring resonator. Applied Physics B: Lasers and Optics, 2014, 116, 129-134.	1.1	27
103	Compact asymmetric metamaterial circular polarization transformer based on twisted double split-ring resonator structure. Journal of Electromagnetic Waves and Applications, 2014, 28, 485-493.	1.0	9
104	Giant optical activity and circular dichroism in the terahertz region based on bi-layer Y-shaped chiral metamaterial. Optik, 2014, 125, 6067-6070.	1.4	19
105	A numerical parameter study of chiral metamaterial based on complementary U-shaped structure in infrared region. Optik, 2014, 125, 1316-1319.	1.4	14
106	DUAL-BAND CIRCULAR POLARIZER AND LINEAR POLARIZATION TRANSFORMER BASED ON TWISTED SPLIT-RING STRUCTURE ASYMMETRIC CHIRAL METAMATERIAL. Progress in Electromagnetics Research, 2014, 145, 263-272.	1.6	32
107	Chiral metamaterials with giant optical activity and negative refractive index based on complementary conjugate-swastikas structure. Journal of Electromagnetic Waves and Applications, 2013, 27, 1068-1076.	1.0	12
108	An ultrathin transparent metamaterial polarization transformer based on a twist-split-ring resonator. Applied Physics A: Materials Science and Processing, 2013, 111, 209-215.	1.1	82

#	ARTICLE	IF	CITATIONS
109	Metamaterial absorber and extending absorbance bandwidth based on multi-cross resonators. Applied Physics B: Lasers and Optics, 2013, 111, 483-488.	1.1	39
110	Broadband transparent metamaterial linear polarization transformer based on triple-split-ring resonators. Journal of Electromagnetic Waves and Applications, 2013, 27, 1850-1858.	1.0	36
111	A polarization-insensitive and omnidirectional broadband terahertz metamaterial absorber based on coplanar multi-squares films. Optics and Laser Technology, 2013, 48, 415-421.	2.2	130
112	Electromagnetic manifestation of chirality in layer-by-layer chiral metamaterials. Optics Express, 2013, 21, 5239.	1.7	68
113	Giant asymmetric transmission of circular polarization in layer-by-layer chiral metamaterials. Applied Physics Letters, 2013, 103, .	1.5	93
114	GIANT CIRCULAR DICHROISM AND NEGATIVE REFRACTIVE INDEX OF CHIRAL METAMATERIAL BASED ON SPLIT-RING RESONATORS. Progress in Electromagnetics Research, 2013, 138, 421-432.	1.6	37
115	FOUR-BAND POLARIZATION-INSENSITIVE METAMATERIAL ABSORBER BASED ON FLOWER-SHAPED STRUCTURES. Progress in Electromagnetics Research, 2013, 142, 221-229.	1.6	54
116	An ultrathin transparent metamaterial polarization transformer based on a twist-split-ring resonator. , 2013, 111, 209.		1
117	Giant optical activity and negative refractive index in the terahertz region using complementary chiral metamaterials. Physica Scripta, 2012, 85, 065405.	1.2	14
118	Design, fabrication and measurement of a broadband polarization-insensitive metamaterial absorber based on lumped elements. Journal of Applied Physics, 2012, 111, .	1.1	159
119	GIANT OPTICAL ACTIVITY AND NEGATIVE REFRACTIVE INDEX USING COMPLEMENTARY U-SHAPED STRUCTURE ASSEMBLY. Progress in Electromagnetics Research M, 2012, 25, 239-253.	0.5	24
120	Perfect metamaterial absorber based on a split-ring-cross resonator. Applied Physics A: Materials Science and Processing, 2011, 102, 99-103.	1.1	173
121	Investigation of negative index properties of planar metamaterials based on split-ring pairs. Applied Physics A: Materials Science and Processing, 2011, 103, 989-994.	1.1	14
122	Experimental demonstration of left-handed transmission properties of metamaterials based on split-ring pairs. Microwave and Optical Technology Letters, 2011, 53, 615-618.	0.9	2
123	A planar polarization-insensitive metamaterial absorber. Photonics and Nanostructures - Fundamentals and Applications, 2011, 9, 8-14.	1.0	48
124	Design, simulation, and measurement of metamaterial absorber. Journal of Applied Physics, 2010, 108, .	1.1	79