Jing Chen

List of Publications by Year
in descending order

65 papers	1,976 citations	257450 24 h-index	254184 43 g-index
65 all docs	65 docs citations	65 times ranked	1317 citing authors

#	Article	IF	Citations
1	Automatically Acquired Broadband Plasmonic-Metamaterial Black Absorber during the Metallic Film-Formation. ACS Applied Materials & Interfaces, 2015, 7, 4962-4968.	8.0	229
2	Independently tunable double Fano resonances in asymmetric MIM waveguide structure. Optics Express, 2014, 22, 14688.	3.4	139
3	Engineering the magnetic plasmon resonances of metamaterials for high-quality sensing. Optics Express, 2017, 25, 3675.	3.4	107
4	Enhancing the Magnetic Plasmon Resonance of Three-Dimensional Optical Metamaterials via Strong Coupling for High-Sensitivity Sensing. Journal of Lightwave Technology, 2018, 36, 3481-3485.	4.6	98
5	Highly sensitive refractive-index sensor based on strong magnetic resonance in metamaterials. Applied Physics Express, 2019, 12, 052015.	2.4	92
6	Electrically modulating and switching infrared absorption of monolayer graphene in metamaterials. Carbon, 2020, 162, 187-194.	10.3	82
7	Strategy for realizing magnetic field enhancement based on diffraction coupling of magnetic plasmon resonances in embedded metamaterials. Optics Express, 2015, 23, 16238.	3.4	63
8	Dielectric waveguide-enhanced localized surface plasmon resonance refractive index sensing. Optical Materials Express, 2018, 8, 342.	3.0	61
9	Ultraviolet graphene ultranarrow absorption engineered by lattice plasmon resonance. Nanotechnology, 2021, 32, 465202.	2.6	53
10	Multiband and Broadband Absorption Enhancement of Monolayer Graphene at Optical Frequencies from Multiple Magnetic Dipole Resonances in Metamaterials. Nanoscale Research Letters, 2018, 13, 153.	5.7	52
11	Dual-band light absorption enhancement of monolayer graphene from surface plasmon polaritons and magnetic dipole resonances in metamaterials. Optics Express, 2017, 25, 12061.	3.4	50
12	Optical Cavity-Enhanced Localized Surface Plasmon Resonance for High-Quality Sensing. IEEE Photonics Technology Letters, 2018, 30, 728-731.	2.5	50
13	Optical Magnetic Field Enhancement via Coupling Magnetic Plasmons to Optical Cavity Modes. IEEE Photonics Technology Letters, 2016, 28, 1529-1532.	2.5	49
14	High Sensing Properties of Magnetic Plasmon Resonance by Strong Coupling in Three-Dimensional Metamaterials. Journal of Lightwave Technology, 2021, 39, 562-565.	4.6	47
15	Enhanced Magnetic Fields at Optical Frequency by Diffraction Coupling of Magnetic Resonances in Lifted Metamaterials. Journal of Lightwave Technology, 2017, 35, 71-74.	4.6	46
16	Strong Magnetic Plasmon Resonance in a Simple Metasurface for High-Quality Sensing. Journal of Lightwave Technology, 2021, 39, 4525-4528.	4.6	45
17	Optical Magnetic Field Enhancement by Strong Coupling in Metamaterials. Journal of Lightwave Technology, 2018, 36, 2791-2795.	4.6	44
18	Photonic Microcavity-Enhanced Magnetic Plasmon Resonance of Metamaterials for Sensing Applications. IEEE Photonics Technology Letters, 2019, 31, 113-116.	2.5	42

#	Article	IF	Citations
19	Tailoring Plasmon Lifetime in Suspended Nanoantenna Arrays for High-Performance Plasmon Sensing. Plasmonics, 2017, 12, 529-534.	3.4	40
20	Highly sensitive 3D metamaterial sensor based on diffraction coupling of magnetic plasmon resonances. Results in Physics, 2019, 15, 102791.	4.1	37
21	High-Q plasmonic graphene absorbers for electrical switching and optical detection. Carbon, 2020, 166, 256-264.	10.3	35
22	Realization of Fanolike Resonance Due to Diffraction Coupling of Localized Surface Plasmon Resonances in Embedded Nanoantenna Arrays. Plasmonics, 2015, 10, 341-346.	3.4	32
23	High-performance metamaterial sensors based on strong coupling between surface plasmon polaritons and magnetic plasmon resonances. Results in Physics, 2019, 14, 102397.	4.1	32
24	Perfect Absorption and Refractive-Index Sensing by Metasurfaces Composed of Cross-Shaped Hole Arrays in Metal Substrate. Nanomaterials, 2021, 11, 63.	4.1	26
25	Multiple Fano resonances in monolayer hexagonal non-close-packed metallic shells. Journal of Chemical Physics, 2012, 136, 214703.	3.0	24
26	Ultrathin amorphous silicon thin-film solar cells by magnetic plasmonic metamaterial absorbers. RSC Advances, 2015, 5, 81866-81874.	3.6	22
27	Simultaneously achieving narrowband and broadband light absorption enhancement in monolayer graphene. Diamond and Related Materials, 2022, 126, 109122.	3.9	21
28	Surface-Plasmon-Polaritons-Assisted Enhanced Magnetic Response at Optical Frequencies in Metamaterials. IEEE Photonics Journal, 2016, 8, 1-7.	2.0	20
29	Broadband, wide-angle, and polarization-insensitive enhancement of light absorption in monolayer graphene over whole visible spectrum. Results in Physics, 2020, 18, 103134.	4.1	20
30	Toroidal Dipolar Excitation in Metamaterials Consisting of Metal nanodisks and a Dielectrc Spacer on Metal Substrate. Scientific Reports, 2017, 7, 582.	3.3	18
31	Ultra-high quality graphene perfect absorbers for high performance switching manipulation. Optics Express, 2020, 28, 37294.	3.4	18
32	Effect of symmetry breaking on localized and delocalized surface plasmons in monolayer hexagonal-close-packed metallic truncated nanoshells. Optics Express, 2011, 19, 23889.	3.4	17
33	Metal-substrate-enhanced magnetic dipole resonance in metamaterials for high-performance refractive index sensing. Optical Materials Express, 2018, 8, 2008.	3.0	17
34	The Light Absorption Enhancement in Graphene Monolayer Resulting from the Diffraction Coupling of Surface Plasmon Polariton Resonance. Nanomaterials, 2022, 12, 216.	4.1	17
35	Preparation of metallic triangular nanoparticle array with controllable interparticle distance and its application in surface-enhanced Raman spectroscopy. Optics Communications, 2013, 307, 73-75.	2.1	16
36	Electrically Tunable Fano Resonance from the Coupling between Interband Transition in Monolayer Graphene and Magnetic Dipole in Metamaterials. Scientific Reports, 2017, 7, 17117.	3.3	16

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37	Ultra-narrowband light absorption enhancement of monolayer graphene from waveguide mode. Optics Express, 2020, 28, 24908.	3.4	16
38	Self-assembled silver nanoparticles: correlation between structural and surface plasmon resonance properties. Applied Physics A: Materials Science and Processing, 2014, 117, 1067-1073.	2.3	15
39	Optical sensing based on classical analogy of double Electromagnetically induced transparencies. Results in Physics, 2022, 39, 105732.	4.1	15
40	The Coupling Effects of Surface Plasmon Polaritons and Magnetic Dipole Resonances in Metamaterials. Nanoscale Research Letters, 2017, 12, 586.	5.7	14
41	Tri-band absorption enhancement in monolayer graphene in visible spectrum due to multiple plasmon resonances in metalâ€“insulatorâ€“metal nanostructure. Applied Physics Express, 2018, 11, 072201.	2.4	14
42	Fanolike resonance in light transmission through a planar array of silver circular disks. Materials Letters, 2014, 136, 205-208.	2.6	13
43	Fabrication and infrared-transmission properties of monolayer hexagonal-close-packed metallic nanoshells. Optics Communications, 2013, 297, 194-197.	2.1	9
44	Narrowband Light Reflection Resonances from Waveguide Modes for High-Quality Sensors. Nanomaterials, 2020, 10, 1966.	4.1	9
45	Graphene Multiple Fano Resonances Based on Asymmetric Hybrid Metamaterial. Nanomaterials, 2020, 10, 2408.	4.1	8
46	Graphene hybridized ultrahigh-Q high-order Fano resonance for nanoscale optical sensing. Applied Physics Express, 2020, 13, 022013.	2.4	8
47	Engineering the Complex-Valued Constitutive Parameters of Metamaterials for Perfect Absorption. Nanoscale Research Letters, 2017, 12, 276.	5.7	7
48	Silicon Nanocrystals with pH-Sensitive Tunable Light Emission from Violet to Blue-Green. Sensors, 2017, 17, 2396.	3.8	7
49	Pore-ridge nanostructures on the surface of trichoid sensilla of the male silkmoth Bombyx mori: Aerodynamic trapping and transporting of the pheromone molecules. Arthropod Structure and Development, 2019, 52, 100875.	1.4	7
50	Independently tunable double Fano-like resonances arising from the interference coupling of localized surface plasmons with waveguide modes. Results in Physics, 2021, 25, 104218.	4.1	7
51	Tunable extraordinary optical transmission of dielectric film-coupled metallo-dielectric crystals. Materials Letters, 2014, 126, 224-227.	2.6	6
52	Graphene-based Superlens for Subwavelength Optical Imaging by Graphene Plasmon Resonances. Plasmonics, 2016, 11, 515-522.	3.4	6
53	Ultralarge Rabi splitting and broadband strong coupling in a spherical hyperbolic metamaterial cavity. Photonics Research, 2021, 9, 829.	7.0	6
54	Ultranarrow and Tunable Fano Resonance in Ag Nanoshells and a Simple Ag Nanomatryushka. Nanomaterials, 2021, 11, 2039.	4.1	6

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55	Synthesis and anodic performance of TiO2-carbonized PAN electrode for lithium ion batteries. Chemical Physics, 2020, 530, 110639.	1.9	5
56	Multiple Sharp Fano Resonances in a Deep-Subwavelength Spherical Hyperbolic Metamaterial Cavity. Nanomaterials, 2021, 11, 2301.	4.1	5
57	Confined Mie Plasmons in Monolayer Hexagonal-Close-Packed Metallic Nanoshells. Chinese Physics Letters, 2012, 29, 097303.	3.3	3
58	Enhanced Microwave Absorption Properties of Absorbing Materials Induced by Complex Coupling Agents. IEEE Transactions on Magnetics, 2019, 55, 1-5.	2.1	3
59	Multi-Band Ultra-Sharp Transmission Response in All-Dielectric Resonant Structures Containing Kerr Nonlinear Media. Plasmonics, 2017, 12, 577-582.	3.4	2
60	Rapid fabrication of high-quality bare silica monolayer and multilayers at the water/air interface. Results in Physics, 2020, 19, 103404.	4.1	2
61	Efficient Optical Reflection Modulation by Coupling Interband Transition of Graphene to Magnetic Resonance in Metamaterials. Nanoscale Research Letters, 2019, 14, 391.	5.7	2
62	Theoretical Study on Metasurfaces for Transverse Magneto-Optical Kerr Effect Enhancement of Ultra-Thin Magnetic Dielectric Films. Nanomaterials, 2021, 11, 2825.	4.1	2
63	Design of GaN-based photonic crystal surface emitting lasers with top TiO2 photonic crystals. Results in Physics, 2022, 33, 105164.	4.1	2
64	Fanolike resonance in light transmission through a silver film perforated with an array of SRR-shaped apertures. Optics Communications, 2014, 322, 175-178.	2.1	0
65	Huge local magnetic field enhancement at optical frequencies in metamaterials through coupling with photonic band gap. Results in Physics, 2019, 15, 102693.	4.1	0