Jianfa Zhang

List of Publications by Year in descending order

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		136885	114418
91	4,075	32	63
papers	citations	h-index	g-index

92	92	92	3959
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanowell-enhanced Raman spectroscopy enables the visualization and quantification of nanoplastics in the environment. Environmental Science: Nano, 2022, 9, 542-553.	2.2	24
2	Optical nonlinearity and non-reciprocal transmission of graphene integrated metasurface. Carbon, 2021, 173, 126-134.	5.4	23
3	Farâ€Field Excitation of Acoustic Graphene Plasmons with a Metamaterial Absorber. Advanced Photonics Research, 2021, 2, 2000066.	1.7	2
4	Fabrication of a honeycomb-like bimetallic SERS substrate for the detection of triphenyltin chloride. Analyst, The, 2021, 146, 6170-6177.	1.7	11
5	Interface engineering of cobaltâ€“sulfideâ€“selenium coreâ€“shell nanostructures as bifunctional electrocatalysts toward overall water splitting. Nanoscale, 2021, 13, 6890-6901.	2.8	12
6	Efficient coupling between an integrated photonic waveguide and an optical fiber. Optics Express, 2021, 29, 27396.	1.7	7
7	High Q Resonant Sb2S3-Lithium Niobate Metasurface for Active Nanophotonics. Nanomaterials, 2021, 11, 2373.	1.9	5
8	Porous Cobalt Sulfide Selenium Nanorods for Electrochemical Hydrogen Evolution. ACS Omega, 2021, 6, 23300-23310.	1.6	7
9	Electrically tunable absorber based on a graphene integrated lithium niobate resonant metasurface. Optics Express, 2021, 29, 32796.	1.7	17
10	High Q Resonant Graphene Absorber with Lossless Phase Change Material Sb2S3. Nanomaterials, 2021, 11, 2820.	1.9	5
11	Multi-peak narrow-band perfect absorber based on two-dimensional graphene array. Diamond and Related Materials, 2021, 120, 108666.	1.8	34
12	Enhanced Molecular Infrared Spectroscopy Employing Bilayer Graphene Acoustic Plasmon Resonator. Biosensors, 2021, 11, 431.	2.3	6
13	Terahertz perfect absorber based on flexible active switching of ultra-broadband and ultra-narrowband. Optics Express, 2021, 29, 42787.	1.7	47
14	High resolution graphene angle sensor based on ultra-narrowband optical perfect absorption. Optics Express, 2021, 29, 41206.	1.7	8
15	Near-Infrared Rewritable, Non-Volatile Subwavelength Absorber Based on Chalcogenide Phase Change Materials. Nanomaterials, 2020, 10, 1222.	1.9	17
16	Carbon-Based Metallic Cobalt Pyrite Nanotubes as Stable Electrode Materials for Electrochemical Hydrogen Evolution. ACS Applied Nano Materials, 2020, 3, 8335-8342.	2.4	6
17	A suspended metasurface achieves complete light absorption: a 50 nm-thick optical nanomicrophone. Nanoscale, 2020, 12, 18049-18055.	2.8	3
18	Fano-Resonance in Hybrid Metal-Graphene Metamaterial and Its Application as Mid-Infrared Plasmonic Sensor. Micromachines, 2020, 11, 268.	1.4	19

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19	Active metamaterials and metadevices: a review. Journal Physics D: Applied Physics, 2020, 53, 503002.	1.3	261
20	Multiband metamaterial selective absorber for infrared stealth. Applied Optics, 2020, 59, 8768.	0.9	14
21	Graphene-enabled electrically tunability of metalens in the terahertz range. Optics Express, 2020, 28, 28101.	1.7	14
22	Ultra-narrowband visible light absorption in a monolayer MoS₂ based resonant nanostructure. Optics Express, 2020, 28, 27608.	1.7	15
23	Graphene-based electrically controlled terahertz polarization switching between a quarter-wave plate and half-wave plate. Optics Express, 2020, 28, 39430.	1.7	9
24	Hybrid magnetic plasmon resonance induced tunable half-wave plate based on graphene-dielectric-metal structure. Journal of Optics (United Kingdom), 2019, 21, 105003.	1.0	4
25	Remarkably high-Q resonant nanostructures based on atomically thin two-dimensional materials. Nanoscale, 2019, 11, 23149-23155.	2.8	10
26	Tuneable infrared perfect absorber based on spatially separated double-layer graphene. Journal of Optics (United Kingdom), 2019, 21, 085002.	1.0	4
27	Graphene plasmonically induced analogue of tunable electromagnetically induced transparency without structurally or spatially asymmetry. Scientific Reports, 2019, 9, 20312.	1.6	7
28	Hybrid metal-graphene plasmonic sensor for multi-spectral sensing in both near- and mid-infrared ranges. Optics Express, 2019, 27, 35914.	1.7	34
29	Optical activity in monolayer black phosphorus due to extrinsic chirality. Optics Letters, 2019, 44, 1774.	1.7	37
30	Coherent perfect absorption in artificially engineered nanometer metal/semiconductor composite films at oblique incidence. OSA Continuum, 2019, 2, 3251.	1.8	2
31	Broadband terahertz absorber based on multi-band continuous plasmon resonances in geometrically gradient dielectric-loaded graphene plasmon structure. Scientific Reports, 2018, 8, 3239.	1.6	64
32	Graphene-Based Perfect Absorption Structures in the Visible to Terahertz Band and Their Optoelectronics Applications. Nanomaterials, 2018, 8, 1033.	1.9	57
33	Mie resonance induced broadband near-perfect absorption in nonstructured graphene loaded with periodical dielectric wires. Optics Express, 2018, 26, 20174.	1.7	21
34	Thermal transport properties of suspended graphene. Journal of Applied Physics, 2018, 124, .	1.1	5
35	Towards high performance hybrid two-dimensional material plasmonic devices: strong and highly anisotropic plasmonic resonances in nanostructured graphene-black phosphorus bilayer. Optics Express, 2018, 26, 22528.	1.7	52
36	Visible to near-infrared coherent perfect absorption in monolayer graphene. Journal of Optics (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.0	23

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37	Coherent perfect absorption and asymmetric interferometric light-light control in graphene with resonant dielectric nanostructures. Optics Express, 2018, 26, 29183.	1.7	27
38	Strong and Anisotropic Plasmonic Resonances in Nanostructured Graphene-Black Phosphorus Bilayer. , 2018, , .		0
39	Coherent perfect absorption in ultra-thin films. , 2018, , .		0
40	Enhanced Frequency-Upconverted Photoluminescence and Terahertz Emission From Graphene. IEEE Photonics Journal, 2017, 9, 1-10.	1.0	0
41	Strong anisotropic perfect absorption in monolayer black phosphorous and its application as tunable polarizer. Journal of Optics (United Kingdom), 2017, 19, 075002.	1.0	57
42	Large Chiroptical Effects in Planar Chiral Metamaterials. Physical Review Applied, 2017, 7, .	1.5	63
43	Broadband wave absorption in single-layered and nonstructured graphene based on far-field interaction effect. Optics Express, 2017, 25, 9579.	1.7	50
44	Enriching contents of optical courses with cutting-edge knowledge in nanophotonics. , 2017, , .		0
45	Coherent control of light-matter interactions in metamaterials: absorption and beyond. , 2016, , .		0
46	Electrically Tunable Absorption Enhancement with Spectral and Polarization Selectivity through Graphene Plasmonic Light Trapping. Nanomaterials, 2016, 6, 155.	1.9	15
47	Giant Nonlinearity of an Optically Reconfigurable Plasmonic Metamaterial. Advanced Materials, 2016, 28, 729-733.	11.1	82
48	Towards nano-optical tweezers with graphene plasmons: Numerical investigation of trapping 10-nm particles with mid-infrared light. Scientific Reports, 2016, 6, 38086.	1.6	40
49	Fano resonances in interacting graphene nanodisk oligomers and their applications for sensing. , 2016, , .		0
50	Electrically tuneable directional coupling and switching based on multimode interference effect in dielectric loaded graphene plasmon waveguides. Journal of Optics (United Kingdom), 2016, 18, 065003.	1.0	10
51	Tunable terahertz half-wave plate based on hybridization effect in coupled graphene nanodisks. Applied Physics Express, 2016, 9, 055102.	1.1	16
52	Electro-optic switching based on a waveguide-ring resonator made of dielectric-loaded graphene plasmon waveguides. Applied Physics Express, 2016, 9, 092001.	1.1	5
53	Experimental Demonstration of Total Absorption over 99% in the Near Infrared for Monolayerâ€Grapheneâ€Based Subwavelength Structures. Advanced Optical Materials, 2016, 4, 1955-1960.	3.6	99
54	Tunable asymmetric transmission of THz wave through a graphene chiral metasurface. Journal of Optics (United Kingdom), 2016, 18, 095001.	1.0	32

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55	Dual-frequency tunable terahertz half-wave plate based on coupling and hybridization effect in graphene nanodisk dimers. , 2016, , .		0
56	Electrically tunable graphene polarization beam splitting utilizing Brewster effect. Journal of Optics (United Kingdom), 2016, 18, 025002.	1.0	2
57	Ultra-fast pulse propagation in nonlinear graphene/silicon ridge waveguide. Scientific Reports, 2015, 5, 16734.	1.6	20
58	Ultrabroadband, More than One Order Absorption Enhancement in Graphene with Plasmonic Light Trapping. Scientific Reports, 2015, 5, 16998.	1.6	83
59	Toroidal dipoleâ€induced transparency in coreâ€“shell nanoparticles. Laser and Photonics Reviews, 2015, 9, 564-570.	4.4	86
60	A Transmission-Type Electrically Tunable Polarizer Based on Graphene Ribbons at Terahertz Wave Band. Chinese Physics Letters, 2015, 32, 025202.	1.3	5
61	Fano resonances and strong field enhancements in arrays of asymmetric plasmonic gap-antennas. Journal of Optics (United Kingdom), 2015, 17, 085002.	1.0	1
62	Bright Multicolored Photoluminescence of Hybrid Graphene/Silicon Optoelectronics. ACS Photonics, 2015, 2, 797-804.	3.2	17
63	Towards photodetection with high efficiency and tunable spectral selectivity: graphene plasmonics for light trapping and absorption engineering. Nanoscale, 2015, 7, 13530-13536.	2.8	127
64	Toward integrated electrically controllable directional coupling based on dielectric loaded graphene plasmonic waveguide. Optics Letters, 2015, 40, 1603.	1.7	47
65	Dielectric loaded graphene plasmon waveguide. Optics Express, 2015, 23, 5147.	1.7	89
66	Invisible nanowires with interfering electric and toroidal dipoles. Optics Letters, 2015, 40, 2293.	1.7	105
67	Enhancement of Near-Infrared Light Graphene Interaction by Nanobeam Resonator. IEEE Photonics Technology Letters, 2015, 27, 2023-2026.	1.3	5
68	Broadband single-layered graphene absorber using periodic arrays of graphene ribbons with gradient width. Applied Physics Express, 2015, 8, 015102.	1.1	26
69	Controlling Light with Light in a Plasmonic Nanooptomechanical Metamaterial. , 2014, , .		1
70	Ultra-directional forward scattering by individual core-shell nanoparticles. Optics Express, 2014, 22, 16178.	1.7	147
71	Strong field enhancement and light-matter interactions with all-dielectric metamaterials based on split bar resonators. Optics Express, 2014, 22, 30889.	1.7	79
72	Electrically controlling the polarizing direction of a graphene polarizer. Journal of Applied Physics, 2014, 116, .	1.1	36

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73	Electrically tunable polarizer based on anisotropic absorption of graphene ribbons. Applied Physics A: Materials Science and Processing, 2014, 114, 1017-1021.	1.1	50
74	Coherent perfect absorption and transparency in a nanostructured graphene film. Optics Express, 2014, 22, 12524.	1.7	154
75	Electromagnetically induced transparency-like optical responses in all-dielectric metamaterials. Journal of Optics (United Kingdom), 2014, 16, 125102.	1.0	33
76	Giant optical forces in planar dielectric photonic metamaterials. Optics Letters, 2014, 39, 4883.	1.7	33
77	An electromechanically reconfigurable plasmonic metamaterial operating in the near-infrared. Nature Nanotechnology, 2013, 8, 252-255.	15.6	331
78	An Allâ€Optical, Nonâ€volatile, Bidirectional, Phaseâ€Change Metaâ€Switch. Advanced Materials, 2013, 25, 3050-3054.	11.1	409
79	All-optical, non-volatile, chalcogenide phase-change meta-switch. , 2013, , .		1
80	Photocurrent imaging of CdS/Al interfaces based on microscopic analysis. Applied Optics, 2013, 52, 5230.	0.9	1
81	Optomechanical nonlinearity and bistability in dielectric metamaterials. , 2013, , .		0
82	Near-infrared trapped mode magnetic resonance in an all-dielectric metamaterial. Optics Express, 2013, 21, 26721.	1.7	159
83	Optical magnetism in all-dielectric metamaterials. , 2013, , .		0
84	Dielectric photonic metamaterials. , 2013, , .		0
85	Nonlinear dielectric optomechanical metamaterials. Light: Science and Applications, 2013, 2, e96-e96.	7.7	69
86	Metamaterial Coherent Light Absorption - The Time-reversed Analogue of the Lasing Spaser. , 2012, , .		1
87	Optical response of plasmonic relief meta-surfaces. Journal of Optics (United Kingdom), 2012, 14, 114002.	1.0	27
88	Controlling light-with-light without nonlinearity. Light: Science and Applications, 2012, 1, e18-e18.	7.7	275
89	Optical gecko toe: Optically controlled attractive near-field forces between plasmonic metamaterials and dielectric or metal surfaces. Physical Review B, 2012, 85, .	1.1	49
90	Continuous metal plasmonic frequency selective surfaces. Optics Express, 2011, 19, 23279.	1.7	54

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91	Nanostructured Plasmonic Medium for Terahertz Bandwidth Allâ€Optical Switching. Advanced Materials, 2011, 23, 5540-5544.	11.1	169