

Jin-Feng Zhu

List of Publications by Year in descending order

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91
papers

2,839
citations

172207

29
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182168

51
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93
all docs

93
docs citations

93
times ranked

3421
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable enhanced optical absorption of graphene using plasmonic perfect absorbers. Applied Physics Letters, 2015, 106, .	1.5	195
2	Broadband absorber with periodically sinusoidally-patterned graphene layer in terahertz range. Optics Express, 2017, 25, 11223.	1.7	191
3	The effect of ambient humidity on the electrical properties of graphene oxide films. Nanoscale Research Letters, 2012, 7, 363.	3.1	151
4	Charge-carrier dynamics in hybrid plasmonic organic solar cells with Ag nanoparticles. Applied Physics Letters, 2011, 98, .	1.5	138
5	A Plasmonic Sensor Array with Ultrahigh Figures of Merit and Resonance Linewidths down to 3 nm. Advanced Materials, 2018, 30, e1706031.	11.1	132
6	Transparent and Flexible Graphene Charge-Trap Memory. ACS Nano, 2012, 6, 7879-7884.	7.3	108
7	Anisotropic infrared plasmonic broadband absorber based on graphene-black phosphorus multilayers. Optics Express, 2019, 27, 3101.	1.7	89
8	Smart inverse design of graphene-based photonic metamaterials by an adaptive artificial neural network. Nanoscale, 2019, 11, 9749-9755.	2.8	87
9	Epitaxial growth of high mobility Bi ₂ Se ₃ thin films on CdS. Applied Physics Letters, 2011, 98, 242102.	1.5	85
10	Manipulating light absorption of graphene using plasmonic nanoparticles. Nanoscale, 2013, 5, 7785.	2.8	74
11	Plasmonic effects for light concentration in organic photovoltaic thin films induced by hexagonal periodic metallic nanospheres. Applied Physics Letters, 2011, 98, .	1.5	73
12	Probing nanoscale spatial distribution of plasmonically excited hot carriers. Nature Communications, 2020, 11, 4211.	5.8	59
13	Uniform Periodic Bowtie SERS Substrate with Narrow Nanogaps Obtained by Monitored Pulsed Electrodeposition. ACS Applied Materials & Interfaces, 2020, 12, 36505-36512.	4.0	58
14	Perfect light absorption in graphene by two unpatterned dielectric layers and potential applications. Carbon, 2019, 142, 430-437.	5.4	57
15	Tunable dual-band terahertz absorber with all-dielectric configuration based on graphene. Optics Express, 2020, 28, 31524.	1.7	56
16	Electrically Tunable Broadband Terahertz Absorption with Hybrid-Patterned Graphene Metasurfaces. Nanomaterials, 2018, 8, 562.	1.9	54
17	Enhanced spatial near-infrared modulation of graphene-loaded perfect absorbers using plasmonic nanoslits. Optics Express, 2015, 23, 32318.	1.7	53
18	Metallic nanomesh electrodes with controllable optical properties for organic solar cells. Applied Physics Letters, 2012, 100, .	1.5	51

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19	Low-cost flexible plasmonic nanobump metasurfaces for label-free sensing of serum tumor marker. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111905.	5.3	49
20	Near unity ultraviolet absorption in graphene without patterning. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	47
21	Perfect ultraviolet absorption in graphene using the magnetic resonance of an all-dielectric nanostructure. <i>Optics Express</i> , 2018, 26, 18155.	1.7	46
22	Portable tumor biosensing of serum by plasmonic biochips in combination with nanoimprint and microfluidics. <i>Nanophotonics</i> , 2019, 8, 307-316.	2.9	44
23	Enhancing terahertz molecular fingerprint detection by a dielectric metagrating. <i>Optics Letters</i> , 2020, 45, 2335.	1.7	44
24	E-beam deposited Ag-nanoparticles plasmonic organic solar cell and its absorption enhancement analysis using FDTD-based cylindrical nano-particle optical model. <i>Optics Express</i> , 2012, 20, 12649.	1.7	42
25	An ultranarrow SPR linewidth in the UV region for plasmonic sensing. <i>Nanoscale</i> , 2019, 11, 4061-4066.	2.8	38
26	Broadband cross polarization converter with unity efficiency for terahertz waves based on anisotropic dielectric meta-reflectarrays. <i>Materials Letters</i> , 2015, 159, 269-272.	1.3	32
27	Modern aspects of strategies for developing single-phase broadly tunable white light-emitting phosphors. <i>Journal of Materials Chemistry C</i> , 2021, 9, 13041-13071.	2.7	32
28	Light concentration and redistribution in polymer solar cells by plasmonic nanoparticles. <i>Nanoscale</i> , 2012, 4, 1978.	2.8	31
29	Asymmetric light reflectance from metal nanoparticle arrays on dielectric surfaces. <i>Scientific Reports</i> , 2015, 5, 18331.	1.6	31
30	An Accurate 3-D CFS-PML Based Crank-Nicolson FDTD Method and Its Applications in Low-Frequency Subsurface Sensing. <i>IEEE Transactions on Antennas and Propagation</i> , 2018, 66, 2967-2975.	3.1	31
31	Plasmonic resonance-linewidth shrinkage to boost biosensing. <i>Photonics Research</i> , 2020, 8, 1226.	3.4	31
32	Quantitative Stability Analysis of Ground Penetrating Radar Systems. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2018, 15, 522-526.	1.4	29
33	Rational fabrication of silver-coated AFM TERS tips with a high enhancement and long lifetime. <i>Nanoscale</i> , 2018, 10, 4398-4405.	2.8	28
34	Improved field emission property of graphene paper by plasma treatment. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	27
35	Ultra-wideband enhancement on mid-infrared fingerprint sensing for 2D materials and analytes of monolayers by a metagrating. <i>Nanophotonics</i> , 2020, 9, 2927-2935.	2.9	27
36	Enhancing ultra-wideband THz fingerprint sensing of unpatterned 2D carbon-based nanomaterials. <i>Carbon</i> , 2021, 179, 666-676.	5.4	25

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37	High-Sensitivity Refractive Index Sensors Using Coherent Perfect Absorption on Graphene in the Vis-NIR Region. ACS Applied Nano Materials, 2019, 2, 3231-3237.	2.4	24
38	Optical Sensing by Metamaterials and Metasurfaces: From Physics to Biomolecule Detection. Advanced Optical Materials, 2022, 10, .	3.6	24
39	Wafer-scale flexible plasmonic metasurface with passivated aluminum nanopillars for high-sensitivity immunosensors. Sensors and Actuators B: Chemical, 2021, 344, 130170.	4.0	23
40	Plasmonic Metasurfaces for Medical Diagnosis Applications: A Review. Sensors, 2022, 22, 133.	2.1	23
41	Modeling of 2D graphene material for plasmonic hybrid waveguide with enhanced near-infrared modulation. Materials Letters, 2017, 186, 53-56.	1.3	22
42	Ultraviolet absorption band engineering of graphene by integrated plasmonic structures. Optical Materials Express, 2018, 8, 3295.	1.6	22
43	Tunable microwave metamaterial absorbers using varactor-loaded split loops. Europhysics Letters, 2015, 112, 54002.	0.7	21
44	Large-Area Plasmonic Metamaterial with Thickness-Dependent Absorption. Advanced Optical Materials, 2021, 9, .	3.6	20
45	Development of structure and tuning ability of the luminescence of lead-free halide perovskite nanocrystals (NCs). Chemical Engineering Journal, 2021, 420, 127603.	6.6	18
46	Graphene-Based Plasmonic Tunable Dual-Band Bandstop Filter in the Far-Infrared Region. IEEE Photonics Journal, 2018, 10, 1-9.	1.0	17
47	Broad band white-light-emitting Y5Si3O12N:Ce3+/Dy3+ oxonitridosilicate phosphors for solid state lighting applications. Journal of Luminescence, 2021, 229, 117687.	1.5	17
48	Enhanced plasmonic light absorption engineering of graphene: simulation by boundary-integral spectral element method. Optics Express, 2015, 23, 4539.	1.7	15
49	System-Combined ADI-FDTD Method and Its Electromagnetic Applications in Microwave Circuits and Antennas. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 3260-3270.	2.9	14
50	Large-Scale Uniform Silver Nanocave Array for Visible Light Refractive Index Sensing Using Soft UV Nanoimprint. IEEE Photonics Journal, 2016, 8, 1-7.	1.0	13
51	Near-Unity Anisotropic Infrared Absorption in Monolayer Black Phosphorus With/Without Subwavelength Patterning Design. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-7.	1.9	13
52	Exploring near-field sensing efficiency of complementary plasmonic metasurfaces for immunodetection of tumor markers. Biosensors and Bioelectronics, 2022, 203, 114038.	5.3	13
53	Recent Progress in the Development of Graphene Detector for Terahertz Detection. Sensors, 2021, 21, 4987.	2.1	12
54	Ultra low field electron emission of graphene exfoliated from carbon cloth. Applied Physics Letters, 2012, 101, .	1.5	11

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55	Post-Earthquake Damage Inspection of Wood-Frame Buildings by a Polarimetric GB-SAR System. Remote Sensing, 2016, 8, 935.	1.8	11
56	Broadband absorption enhancement of graphene in the ultraviolet range based on metal-dielectric-metal configuration. Journal of Applied Physics, 2019, 126, .	1.1	11
57	Ultracompact and chipless terahertz identification tags using multi-resonant metasurface based on graphene. Journal Physics D: Applied Physics, 2020, 53, 015105.	1.3	11
58	Development of narrow band emitting phosphors for backlighting displays and solid state lighting using a clean and green energy technology. Journal of Luminescence, 2022, 243, 118650.	1.5	11
59	A double-layer metamaterial with negative refractive index originating from chiral configuration. Microwave and Optical Technology Letters, 2011, 53, 163-166.	0.9	10
60	Probing Composite Vibrational Fingerprints in the Terahertz Range With Graphene Split Ring Resonator. IEEE Photonics Journal, 2020, 12, 1-8.	1.0	10
61	Ultra-wideband perfect reflection and tunneling by all-dielectric metamaterials. Optics Letters, 2021, 46, 849.	1.7	10
62	Simultaneous Fabrication of Two Kinds of Plasmonic Crystals by One Nanoimprint Mold. IEEE Photonics Technology Letters, 2017, 29, 504-506.	1.3	9
63	Graphene-Based Biosensors for Detection of Composite Vibrational Fingerprints in the Mid-Infrared Region. Nanomaterials, 2019, 9, 1496.	1.9	9
64	Wireless Cloaking System Based on Time-Reversal Multipath Propagation Effects. IEEE Transactions on Antennas and Propagation, 2019, 67, 1386-1391.	3.1	9
65	Selective light trapping of plasmonic stack metamaterials by circuit design. Nanoscale, 2020, 12, 2057-2062.	2.8	9
66	Enhanced Broadband Optical Transmission Through Ultrathin Metallic Nanomesh. Journal of Electromagnetic Waves and Applications, 2012, 26, 342-352.	1.0	7
67	Imprinted plasmonic measuring nanocylinders for nanoscale volumes of materials. Nanophotonics, 2020, 9, 167-176.	2.9	7
68	Light-Trapped Nanocavities for Ultraviolet Surface-Enhanced Raman Scattering. Journal of Physical Chemistry C, 2021, 125, 17241-17247.	1.5	7
69	A Corner-Free Truncation Strategy in Three-Dimensional FDTD Computation. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 512-522.	1.4	6
70	Switchable Truncations Between the 1st- and 2nd-Order DZT-CFS-UPMLs for Relevant FDTD Problems. IEEE Transactions on Antennas and Propagation, 2020, 68, 360-365.	3.1	6
71	High-Accurate Non-Uniform Grids for System-Combined ADI-FDTD Method in Near-Field Scattering With Proper CFL Factor. IEEE Access, 2021, 9, 18550-18559.	2.6	5
72	Ultrasensitive Metasurface Biosensors by the Use of Constrained Mie Resonance and Metallic Dissipation. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-6.	1.9	5

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73	Z-Transform-Based FDTD Implementations of Biaxial Anisotropy for Radar Target Scattering Problems. Remote Sensing, 2022, 14, 2397.	1.8	5
74	Simulation of Field Emission Micro-Triode Based on Coaxial Nanostructure. Journal of Infrared, Millimeter, and Terahertz Waves, 2009, 30, 94-102.	1.2	3
75	Polarization-insensitive dielectric metamaterial absorber for near-unity UV-light trapping in monolayer graphene. Optics Communications, 2022, 503, 127459.	1.0	3
76	Light concentration in polymer bulk heterojunction solar cells with plasmonic nanoparticles. Proceedings of SPIE, 2011, , .	0.8	1
77	Ultrathin plasmonic frequency selective surface with subwavelength hole arrays. Microwave and Optical Technology Letters, 2016, 58, 2171-2176.	0.9	1
78	Plasmonic Organic Solar Cell and Its Absorption Enhancement Analysis Using Cylindrical Ag Nano-Particle Model based on Finite Difference Time Domain (FDTD). , 2011, , .		1
79	Optical Transmittance through Ultrathin Gold Films with Subwavelength Hole Arrays. , 0, , .		1
80	Inverse design of anisotropic and multi-resonant absorbers based on black phosphorus via residual neural network. Journal of Optics (United Kingdom), 0, , .	1.0	1
81	Absorption and transport enhancement by Ag nanoparticle plasmonics for organic optoelectronics. , 2011, , .		0
82	Enhanced surface plasmonic optical absorption engineering of graphene: Simulation by boundary-integral spectral element method. , 2015, , .		0
83	ANALYSIS OF THREE-DIMENSIONAL GRAPHENE-BASED METAMATERIAL ABSORBERS USING BOUNDARY-INTEGRAL SPECTRAL ELEMENT METHOD. , 2016, , .		0
84	HIGH PERFORMANCE OPTICAL ABSORBER IN THE VISIBLE AND NEAR-INFRARED SPECTRA: EXPERIMENTS AND SIMULATIONS. , 2016, , .		0
85	Reconfigurable microwave metamaterial absorbers using split loops with varactors. , 2016, , .		0
86	Simulation of graphene-based plasmonic metamaterial absorbers by using spectral element method. , 2016, , .		0
87	A novel electro-optic modulator with metal/dielectric/graphene nanostructure: Simulation of isotropic and anisotropic graphene. , 2016, , .		0
88	Large-scale uniform plasmonic light-trapping nanostructures using Soft UV nanoimprint lithography. , 2016, , .		0
89	Sensitivity analysis of high-frequency nonlinearity and DC ohmic characteristics of graphene in ammonia environment. Journal Physics D: Applied Physics, 2020, 53, 225105.	1.3	0
90	Inverse design of terahertz metagrating based on neural network. , 2021, , .		0

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91	Broadband Enhanced Sensing for Terahertz Molecular Fingerprint of Trace-amount Samples. , 2021, , .		0