

# Jin-Feng Zhu

## List of Publications by Year in descending order

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91  
papers

2,839  
citations

172207

29  
h-index

182168

51  
g-index

93  
all docs

93  
docs citations

93  
times ranked

3421  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polarization-insensitive dielectric metamaterial absorber for near-unity UV-light trapping in monolayer graphene. <i>Optics Communications</i> , 2022, 503, 127459.	1.0	3
2	Development of narrow band emitting phosphors for backlighting displays and solid state lighting using a clean and green energy technology. <i>Journal of Luminescence</i> , 2022, 243, 118650.	1.5	11
3	Exploring near-field sensing efficiency of complementary plasmonic metasurfaces for immunodetection of tumor markers. <i>Biosensors and Bioelectronics</i> , 2022, 203, 114038.	5.3	13
4	Plasmonic Metasurfaces for Medical Diagnosis Applications: A Review. <i>Sensors</i> , 2022, 22, 133.	2.1	23
5	Z-Transform-Based FDTD Implementations of Biaxial Anisotropy for Radar Target Scattering Problems. <i>Remote Sensing</i> , 2022, 14, 2397.	1.8	5
6	Optical Sensing by Metamaterials and Metasurfaces: From Physics to Biomolecule Detection. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	24
7	Large-area Plasmonic Metamaterial with Thickness-dependent Absorption. <i>Advanced Optical Materials</i> , 2021, 9, .	3.6	20
8	Broad band white-light-emitting Y <sub>5</sub> Si <sub>3</sub> O <sub>12</sub> N:Ce <sup>3+</sup> /Dy <sup>3+</sup> oxonitridosilicate phosphors for solid state lighting applications. <i>Journal of Luminescence</i> , 2021, 229, 117687.	1.5	17
9	Development of structure and tuning ability of the luminescence of lead-free halide perovskite nanocrystals (NCs). <i>Chemical Engineering Journal</i> , 2021, 420, 127603.	6.6	18
10	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
11	High-Accurate Non-Uniform Grids for System-Combined ADI-FDTD Method in Near-Field Scattering With Proper CFL Factor. <i>IEEE Access</i> , 2021, 9, 18550-18559.	2.6	5
12	Ultra-wideband perfect reflection and tunneling by all-dielectric metamaterials. <i>Optics Letters</i> , 2021, 46, 849.	1.7	10
13	Recent Progress in the Development of Graphene Detector for Terahertz Detection. <i>Sensors</i> , 2021, 21, 4987.	2.1	12
14	Light-Trapped Nanocavities for Ultraviolet Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2021, 125, 17241-17247.	1.5	7
15	Enhancing ultra-wideband THz fingerprint sensing of unpatterned 2D carbon-based nanomaterials. <i>Carbon</i> , 2021, 179, 666-676.	5.4	25
16	Inverse design of terahertz metagrating based on neural network. , 2021, , .		0
17	Wafer-scale flexible plasmonic metasurface with passivated aluminum nanopillars for high-sensitivity immunosensors. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130170.	4.0	23
18	Ultrasensitive Metasurface Biosensors by the Use of Constrained Mie Resonance and Metallic Dissipation. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-6.	1.9	5

#	ARTICLE	IF	CITATIONS
19	Broadband Enhanced Sensing for Terahertz Molecular Fingerprint of Trace-amount Samples. , 2021, , .		0
20	Imprinted plasmonic measuring nanocylinders for nanoscale volumes of materials. Nanophotonics, 2020, 9, 167-176.	2.9	7
21	Ultracompact and chipless terahertz identification tags using multi-resonant metasurface based on graphene. Journal Physics D: Applied Physics, 2020, 53, 015105.	1.3	11
22	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
23	Selective light trapping of plasmonic stack metamaterials by circuit design. Nanoscale, 2020, 12, 2057-2062.	2.8	9
24	Low-cost flexible plasmonic nanobump metasurfaces for label-free sensing of serum tumor marker. Biosensors and Bioelectronics, 2020, 150, 111905.	5.3	49
25	Uniform Periodic Bowtie SERS Substrate with Narrow Nanogaps Obtained by Monitored Pulsed Electrodeposition. ACS Applied Materials & Interfaces, 2020, 12, 36505-36512.	4.0	58
26	Probing Composite Vibrational Fingerprints in the Terahertz Range With Graphene Split Ring Resonator. IEEE Photonics Journal, 2020, 12, 1-8.	1.0	10
27	Probing nanoscale spatial distribution of plasmonically excited hot carriers. Nature Communications, 2020, 11, 4211.	5.8	59
28	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
29	Tunable dual-band terahertz absorber with all-dielectric configuration based on graphene. Optics Express, 2020, 28, 31524.	1.7	56
30	Enhancing terahertz molecular fingerprint detection by a dielectric metagrating. Optics Letters, 2020, 45, 2335.	1.7	44
31	Plasmonic resonance-linewidth shrinkage to boost biosensing. Photonics Research, 2020, 8, 1226.	3.4	31
32	Ultra-wideband enhancement on mid-infrared fingerprint sensing for 2D materials and analytes of monolayers by a metagrating. Nanophotonics, 2020, 9, 2927-2935.	2.9	27
33	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
34	Graphene-Based Biosensors for Detection of Composite Vibrational Fingerprints in the Mid-Infrared Region. Nanomaterials, 2019, 9, 1496.	1.9	9
35	Smart inverse design of graphene-based photonic metamaterials by an adaptive artificial neural network. Nanoscale, 2019, 11, 9749-9755.	2.8	87
36	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

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37	Wireless Cloaking System Based on Time-Reversal Multipath Propagation Effects. IEEE Transactions on Antennas and Propagation, 2019, 67, 1386-1391.	3.1	9
38	Portable tumor biosensing of serum by plasmonic biochips in combination with nanoimprint and microfluidics. Nanophotonics, 2019, 8, 307-316.	2.9	44
39	Broadband absorption enhancement of graphene in the ultraviolet range based on metal-dielectric-metal configuration. Journal of Applied Physics, 2019, 126, .	1.1	11
40	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
41	Perfect light absorption in graphene by two unpatterned dielectric layers and potential applications. Carbon, 2019, 142, 430-437.	5.4	57
42	An ultranarrow SPR linewidth in the UV region for plasmonic sensing. Nanoscale, 2019, 11, 4061-4066.	2.8	38
43	Anisotropic infrared plasmonic broadband absorber based on graphene-black phosphorus multilayers. Optics Express, 2019, 27, 3101.	1.7	89
44	Quantitative Stability Analysis of Ground Penetrating Radar Systems. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 522-526.	1.4	29
45	Near unity ultraviolet absorption in graphene without patterning. Applied Physics Letters, 2018, 112, .	1.5	47
46	A Plasmonic Sensor Array with Ultrahigh Figures of Merit and Resonance Linewidths down to 3 nm. Advanced Materials, 2018, 30, e1706031.	11.1	132
47	Rational fabrication of silver-coated AFM TERS tips with a high enhancement and long lifetime. Nanoscale, 2018, 10, 4398-4405.	2.8	28
48	An Accurate 3-D CFS-PML Based Crank-Nicolson FDTD Method and Its Applications in Low-Frequency Subsurface Sensing. IEEE Transactions on Antennas and Propagation, 2018, 66, 2967-2975.	3.1	31
49	Graphene-Based Plasmonic Tunable Dual-Band Bandstop Filter in the Far-Infrared Region. IEEE Photonics Journal, 2018, 10, 1-9.	1.0	17
50	Perfect ultraviolet absorption in graphene using the magnetic resonance of an all-dielectric nanostructure. Optics Express, 2018, 26, 18155.	1.7	46
51	Electrically Tunable Broadband Terahertz Absorption with Hybrid-Patterned Graphene Metasurfaces. Nanomaterials, 2018, 8, 562.	1.9	54
52	Ultraviolet absorption band engineering of graphene by integrated plasmonic structures. Optical Materials Express, 2018, 8, 3295.	1.6	22
53	Simultaneous Fabrication of Two Kinds of Plasmonic Crystals by One Nanoimprint Mold. IEEE Photonics Technology Letters, 2017, 29, 504-506.	1.3	9
54	Modeling of 2D graphene material for plasmonic hybrid waveguide with enhanced near-infrared modulation. Materials Letters, 2017, 186, 53-56.	1.3	22

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55	Broadband absorber with periodically sinusoidally-patterned graphene layer in terahertz range. Optics Express, 2017, 25, 11223.	1.7	191
56	Post-Earthquake Damage Inspection of Wood-Frame Buildings by a Polarimetric GB-SAR System. Remote Sensing, 2016, 8, 935.	1.8	11
57	ANALYSIS OF THREE-DIMENSIONAL GRAPHENE-BASED METAMATERIAL ABSORBERS USING BOUNDARY-INTEGRAL SPECTRAL ELEMENT METHOD. , 2016, , .		0
58	HIGH PERFORMANCE OPTICAL ABSORBER IN THE VISIBLE AND NEAR-INFRARED SPECTRA: EXPERIMENTS AND SIMULATIONS. , 2016, , .		0
59	Reconfigurable microwave metamaterial absorbers using split loops with varactors. , 2016, , .		0
60	Simulation of graphene-based plasmonic metamaterial absorbers by using spectral element method. , 2016, , .		0
61	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
62	A novel electro-optic modulator with metal/dielectric/graphene nanostructure: Simulation of isotropic and anisotropic graphene. , 2016, , .		0
63	Large-scale uniform plasmonic light-trapping nanostructures using Soft UV nanoimprint lithography. , 2016, , .		0
64	Ultrathin plasmonic frequency selective surface with subwavelength hole arrays. Microwave and Optical Technology Letters, 2016, 58, 2171-2176.	0.9	1
65	A Corner-Free Truncation Strategy in Three-Dimensional FDTD Computation. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 512-522.	1.4	6
66	Asymmetric light reflectance from metal nanoparticle arrays on dielectric surfaces. Scientific Reports, 2015, 5, 18331.	1.6	31
67	Enhanced spatial near-infrared modulation of graphene-loaded perfect absorbers using plasmonic nanoslits. Optics Express, 2015, 23, 32318.	1.7	53
68	Enhanced surface plasmonic optical absorption engineering of graphene: Simulation by boundary-integral spectral element method. , 2015, , .		0
69	Tunable microwave metamaterial absorbers using varactor-loaded split loops. Europhysics Letters, 2015, 112, 54002.	0.7	21
70	Tunable enhanced optical absorption of graphene using plasmonic perfect absorbers. Applied Physics Letters, 2015, 106, .	1.5	195
71	Broadband cross polarization converter with unity efficiency for terahertz waves based on anisotropic dielectric meta-reflectarrays. Materials Letters, 2015, 159, 269-272.	1.3	32
72	Enhanced plasmonic light absorption engineering of graphene: simulation by boundary-integral spectral element method. Optics Express, 2015, 23, 4539.	1.7	15

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73	Manipulating light absorption of graphene using plasmonic nanoparticles. <i>Nanoscale</i> , 2013, 5, 7785.	2.8	74
74	Metallic nanomesh electrodes with controllable optical properties for organic solar cells. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	51
75	Ultra low field electron emission of graphene exfoliated from carbon cloth. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	11
76	Transparent and Flexible Graphene Charge-Trap Memory. <i>ACS Nano</i> , 2012, 6, 7879-7884.	7.3	108
77	Light concentration and redistribution in polymer solar cells by plasmonic nanoparticles. <i>Nanoscale</i> , 2012, 4, 1978.	2.8	31
78	The effect of ambient humidity on the electrical properties of graphene oxide films. <i>Nanoscale Research Letters</i> , 2012, 7, 363.	3.1	151
79	Enhanced Broadband Optical Transmission Through Ultrathin Metallic Nanomesh. <i>Journal of Electromagnetic Waves and Applications</i> , 2012, 26, 342-352.	1.0	7
80	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
81	Plasmonic effects for light concentration in organic photovoltaic thin films induced by hexagonal periodic metallic nanospheres. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	73
82	Charge-carrier dynamics in hybrid plasmonic organic solar cells with Ag nanoparticles. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	138
83	Epitaxial growth of high mobility Bi <sub>2</sub> Se <sub>3</sub> thin films on CdS. <i>Applied Physics Letters</i> , 2011, 98, 242102.	1.5	85
84	A double-layer metamaterial with negative refractive index originating from chiral configuration. <i>Microwave and Optical Technology Letters</i> , 2011, 53, 163-166.	0.9	10
85	Absorption and transport enhancement by Ag nanoparticle plasmonics for organic optoelectronics. , 2011, , .		0
86	Light concentration in polymer bulk heterojunction solar cells with plasmonic nanoparticles. <i>Proceedings of SPIE</i> , 2011, , .	0.8	1
87	Plasmonic Organic Solar Cell and Its Absorption Enhancement Analysis Using Cylindrical Ag Nano-Particle Model based on Finite Difference Time Domain (FDTD). , 2011, , .		1
88	Improved field emission property of graphene paper by plasma treatment. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	27
89	Simulation of Field Emission Micro-Triode Based on Coaxial Nanostructure. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2009, 30, 94-102.	1.2	3
90	Optical Transmittance through Ultrathin Gold Films with Subwavelength Hole Arrays. , 0, , .		1

#	ARTICLE	IF	CITATIONS
91	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