

Ji-Gang Hu

List of Publications by Year in descending order

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49
papers

1,746
citations

430874

18
h-index

265206

42
g-index

50
all docs

50
docs citations

50
times ranked

2412
citing authors

#	ARTICLE	IF	CITATIONS
1	Monolayer Graphene/Germanium Schottky Junction As High-Performance Self-Driven Infrared Light Photodetector. ACS Applied Materials & Interfaces, 2013, 5, 9362-9366.	8.0	347
2	Monolayer Graphene Film on ZnO Nanorod Array for High-Performance Schottky Junction Ultraviolet Photodetectors. Small, 2013, 9, 2872-2879.	10.0	271
3	Light trapping and surface plasmon enhanced high-performance NIR photodetector. Scientific Reports, 2014, 4, 3914.	3.3	132
4	Total absorption of light in monolayer transition-metal dichalcogenides by critical coupling. Optics Express, 2017, 25, 31612.	3.4	129
5	Investigation of multiband plasmonic metamaterial perfect absorbers based on graphene ribbons by the phase-coupled method. Carbon, 2019, 141, 481-487.	10.3	110
6	PdSe ₂ Multilayer on Germanium Nanocones Array with Light Trapping Effect for Sensitive Infrared Photodetector and Image Sensing Application. Advanced Functional Materials, 2019, 29, 1900849.	14.9	90
7	Wavelength-Selective Wide-Angle Light Absorption Enhancement in Monolayers of Transition-Metal Dichalcogenides. Journal of Lightwave Technology, 2018, 36, 3236-3241.	4.6	57
8	Light Confinement Effect Induced Highly Sensitive, Self-Driven Near-Infrared Photodetector and Image Sensor Based on Multilayer PdSe ₂ /Pyramid Si Heterojunction. Small, 2019, 15, e1903831.	10.0	51
9	The Effect of Plasmonic Nanoparticles on the Optoelectronic Characteristics of CdTe Nanowires. Small, 2014, 10, 2645-2652.	10.0	43
10	Strong coupling of optical interface modes in a 1D topological photonic crystal heterostructure/Ag hybrid system. Optics Letters, 2019, 44, 5642.	3.3	40
11	Angle-independent strong coupling between plasmonic magnetic resonances and excitons in monolayer WS ₂ . Optics Express, 2019, 27, 22951.	3.4	39
12	p-CdTe nanoribbon/n-silicon nanowires array heterojunctions: photovoltaic devices and zero-power photodetectors. CrystEngComm, 2012, 14, 7222.	2.6	38
13	Strong longitudinal coupling of Tamm plasmon polaritons in graphene/DBR/Ag hybrid structure. Optics Express, 2019, 27, 18642.	3.4	38
14	Fabrication of p-type ZnSe:Sb nanowires for high-performance ultraviolet light photodetector application. Nanotechnology, 2013, 24, 095603.	2.6	36
15	CTAB Assisted Synthesis of CuS Microcrystals: Synthesis, Mechanism, and Electrical Properties. Journal of Materials Science and Technology, 2013, 29, 1047-1052.	10.7	31
16	Tailoring total absorption in a graphene monolayer covered subwavelength multilayer dielectric grating structure at near-infrared frequencies. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 861.	2.1	26
17	Highly Sensitive Narrowband Si Photodetector With Peak Response at Around 1060 nm. IEEE Transactions on Electron Devices, 2020, 67, 3211-3214.	3.0	26
18	p-type ZnTe:Ga nanowires: controlled doping and optoelectronic device application. RSC Advances, 2015, 5, 13324-13330.	3.6	20

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19	An effective formula for nuclear charge radii. <i>European Physical Journal A</i> , 2015, 51, 1.	2.5	18
20	Ultra-narrow-band circular dichroism by surface lattice resonances in an asymmetric dimer-on-mirror metasurface. <i>Optics Express</i> , 2022, 30, 16020.	3.4	18
21	Investigation on sensing characteristics of fiber Bragg gratings based on soft glass fibers. <i>Optik</i> , 2018, 156, 13-21.	2.9	14
22	Tailoring the electrical properties of tellurium nanowires via surface charge transfer doping. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	13
23	High performance nonvolatile memory devices based on Cu _{2-x} Se nanowires. <i>Applied Physics Letters</i> , 2013, 103, 193501.	3.3	13
24	Strong hyperbolic-magnetic polaritons coupling in an hBN/Ag-grating heterostructure. <i>Optics Express</i> , 2020, 28, 22095.	3.4	13
25	Non-ultrawide Bandgap Semiconductor GaSe Nanobelts for Sensitive Deep Ultraviolet Light Photodetector Application. <i>Small</i> , 2022, 18, e2200594.	10.0	13
26	Hybrid tandem solar cell enhanced by a metallic hole-array as the intermediate electrode. <i>Optics Express</i> , 2014, 22, A1400.	3.4	11
27	Mesoporous anodic Fe_2O_3 interferometer for organic vapor sensing application. <i>RSC Advances</i> , 2018, 8, 31121-31128.	3.6	10
28	Nanostructured multilayer hyperbolic metamaterials for high efficiency and selective solar absorption. <i>Optics Express</i> , 2022, 30, 11504.	3.4	10
29	Dual-plasmonic Au/graphene/Au-enhanced ultrafast, broadband, self-driven silicon Schottky photodetector. <i>Nanotechnology</i> , 2018, 29, 505203.	2.6	9
30	Gallium doped <i>n</i> -type Zn _x Cd _{1-x} S nanoribbons: Synthesis and photoconductivity properties. <i>Journal of Applied Physics</i> , 2014, 115, 063108.	2.5	8
31	Core-shell CdS:Ga/ZnTe:Sb nano-heterojunctions: fabrication and optoelectronic characteristics. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2933-2939.	5.5	8
32	Numerical study on supercontinuum generation by different optical modes in AsSe ₂ -As ₂ S ₅ chalcogenide microstructured fiber. <i>Applied Optics</i> , 2018, 57, 382.	1.8	8
33	Sensitivity enhanced all-optical switching using prism-grating coupled surface plasmon modes. <i>Optics Communications</i> , 2010, 283, 151-154.	2.1	7
34	Strong coupling between localized and propagating surface plasmon modes in a noncentrosymmetric metallic photonic slab. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, 1600.	2.1	7
35	Enhanced Light Trapping in Conformal CuO/Si Microholes Array Heterojunction for Self-Powered Broadband Photodetection. <i>IEEE Electron Device Letters</i> , 2021, 42, 883-886.	3.9	7
36	Tuning of longitudinal plasmonic coupling in graphene nanoribbon arrays/sheet hybrid structures at mid-infrared frequencies. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 697.	2.1	7

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37	Investigation on four-wave mixing toward mid-infrared waveband in tellurite photonic crystal fiber. <i>Optical and Quantum Electronics</i> , 2018, 50, 1.	3.3	5
38	Wavelength-Tunable Multispectral Photodetector With Both Ultraviolet and Near-Infrared Narrowband Detection Capability. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 3258-3261.	3.0	5
39	Ultra-deep subwavelength periodic patterning through multilayered metamaterial microcavity. <i>Proceedings of SPIE</i> , 2012, , .	0.8	3
40	Improving deep subwavelength imaging through terminal interface design of metallo-dielectric multilayered stacks. <i>Journal of Nanophotonics</i> , 2013, 7, 073091.	1.0	3
41	Supercontinuum generation in a step-index chalcogenide fiber with AsSe ₂ core and As ₂ S ₅ cladding. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 122201.	1.5	3
42	Characteristics of forward stimulated Brillouin scattering effect in silica fibers with different microstructures. <i>Optik</i> , 2019, 179, 82-88.	2.9	3
43	A UV to NIR Si Wavelength Sensor With Simple Geometry and Good Resolution. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 2457-2461.	3.0	3
44	Investigation on optical and acoustic fields of stimulated Brillouin scattering in As ₂ S ₃ suspended-core microstructured optical fibers. <i>Optik</i> , 2017, 133, 51-59.	2.9	2
45	Reflective all-optical switching in metallic slab coated by sinusoidally corrugated nonlinear optical materials. , 2009, , .		0
46	Terminal interface effect in metal-dielectric multilayer. , 2013, , .		0
47	Nano-scale patterns of molybdenum on glass substrate for use in super-resolution imaging with metamaterials. , 2014, , .		0
48	High-performance one-way transmission using pyramid-shaped silicon grating-coupled hyperbolic metamaterial. , 2016, , .		0
49	Dual-band total absorption via guided-mode resonance in a monolayer MoS ₂ covered dielectric grating structure. , 2018, , .		0