Ji-Gang Hu

List of Publications by Year
in descending order

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	A UV to NIR Si Wavelength Sensor With Simple Geometry and Good Resolution. IEEE Transactions on Electron Devices, 2022, 69, 2457-2461.	3.0	3
2	Nanostructured multilayer hyperbolic metamaterials for high efficiency and selective solar absorption. Optics Express, 2022, 30, 11504.	3.4	10
3	Ultra-narrow-band circular dichroism by surface lattice resonances in an asymmetric dimer-on-mirror metasurface. Optics Express, 2022, 30, 16020.	3.4	18
4	Wavelength-Tunable Multispectral Photodetector With Both Ultraviolet and Near-Infrared Narrowband Detection Capability. IEEE Transactions on Electron Devices, 2022, 69, 3258-3261.	3.0	5
5	Nonâ€Ultrawide Bandgap Semiconductor GaSe Nanobelts for Sensitive Deep Ultraviolet Light Photodetector Application. Small, 2022, 18, e2200594.	10.0	13
6	Enhanced Light Trapping in Conformal CuO/Si Microholes Array Heterojunction for Self-Powered Broadband Photodetection. IEEE Electron Device Letters, 2021, 42, 883-886.	3.9	7
7	Highly Sensitive Narrowband Si Photodetector With Peak Response at Around 1060 nm. IEEE Transactions on Electron Devices, 2020, 67, 3211-3214.	3.0	26
8	Strong hyperbolic-magnetic polaritons coupling in an hBN/Ag-grating heterostructure. Optics Express, 2020, 28, 22095.	3.4	13
9	Light Confinement Effect Induced Highly Sensitive, Selfâ€Driven Nearâ€Infrared Photodetector and Image Sensor Based on Multilayer PdSe₂/Pyramid Si Heterojunction. Small, 2019, 15, e1903831.	10.0	51
10	PdSe₂ 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
11	Characteristics of forward stimulated Brillouin scattering effect in silica fibers with different microstructures. Optik, 2019, 179, 82-88.	2.9	3
12	Investigation of multiband plasmonic metamaterial perfect absorbers based on graphene ribbons by the phase-coupled method. Carbon, 2019, 141, 481-487.	10.3	110
13	Tuning of longitudinal plasmonic coupling in graphene nanoribbon arrays/sheet hybrid structures at mid-infrared frequencies. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 697.	2.1	7
14	Strong longitudinal coupling of Tamm plasmon polaritons in graphene/DBR/Ag hybrid structure. Optics Express, 2019, 27, 18642.	3.4	38
15	Angle-independent strong coupling between plasmonic magnetic resonances and excitons in monolayer WS₂. Optics Express, 2019, 27, 22951.	3.4	39
16	Strong coupling of optical interface modes in a 1D topological photonic crystal heterostructure/Ag hybrid system. Optics Letters, 2019, 44, 5642.	3.3	40
17	Investigation on sensing characteristics of fiber Bragg gratings based on soft glass fibers. Optik, 2018, 156, 13-21.	2.9	14
18	Investigation on four-wave mixing toward mid-infrared waveband in tellurite photonic crystal fiber. Optical and Quantum Electronics, 2018, 50, 1.	3.3	5

#	Article	IF	Citations
19	Dual-plasmonic Au/graphene/Au-enhanced ultrafast, broadband, self-driven silicon Schottky photodetector. Nanotechnology, 2018, 29, 505203.	2.6	9
20	Mesoporous anodic Î±-Fe2O3 interferometer for organic vapor sensing application. RSC Advances, 2018, 8, 31121-31128.	3.6	10
21	Numerical study on supercontinuum generation by different optical modes in AsSe_2-As_2S_5 chalcogenide microstructured fiber. Applied Optics, 2018, 57, 382.	1.8	8
22	Wavelength-Selective Wide-Angle Light Absorption Enhancement in Monolayers of Transition-Metal Dichalcogenides. Journal of Lightwave Technology, 2018, 36, 3236-3241.	4.6	57
23	Dual-band total absorption via guided-mode resonance in a monolayer MoS2 covered dielectric grating structure. , 2018, , .		0
24	Investigation on optical and acoustic fields of stimulated Brillouin scattering in As2S3 suspended-core microstructured optical fibers. Optik, 2017, 133, 51-59.	2.9	2
25	Total absorption of light in monolayer transition-metal dichalcogenides by critical coupling. Optics Express, 2017, 25, 31612.	3.4	129
26	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
27	Supercontinuum generation in a step-index chalcogenide fiber with AsSe2core and As2S5cladding. Japanese Journal of Applied Physics, 2016, 55, 122201.	1.5	3
28	High-performance one-way transmission using pyramid-shaped silicon grating-coupled hyperbolic metamaterial. , 2016, , .		0
29	p-type ZnTe:Ga nanowires: controlled doping and optoelectronic device application. RSC Advances, 2015, 5, 13324-13330.	3.6	20
30	Coreâ€“shell CdS:Gaâ€“ZnTe:Sb pâ€“n nano-heterojunctions: fabrication and optoelectronic characteristics. Journal of Materials Chemistry C, 2015, 3, 2933-2939.	5.5	8
31	An effective formula for nuclear charge radii. European Physical Journal A, 2015, 51, 1.	2.5	18
32	Hybrid tandem solar cell enhanced by a metallic hole-array as the intermediate electrode. Optics Express, 2014, 22, A1400.	3.4	11
33	The Effect of Plasmonic Nanoparticles on the Optoelectronic Characteristics of CdTe Nanowires. Small, 2014, 10, 2645-2652.	10.0	43
34	Gallium doped n-type Zn_xCd_{1-x}S nanoribbons: Synthesis and photoconductivity properties. Journal of Applied Physics, 2014, 115, 063108.	2.5	8
35	Strong coupling between localized and propagating surface plasmon modes in a noncentrosymmetric metallic photonic slab. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 1600.	2.1	7
36	Nano-scale patterns of molybdenum on glass substrate for use in super-resolution imaging with metamaterials. , 2014, , .		0

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37	Light trapping and surface plasmon enhanced high-performance NIR photodetector. Scientific Reports, 2014, 4, 3914.	3.3	132
38	CTAB Assisted Synthesis of CuS Microcrystals: Synthesis, Mechanism, and Electrical Properties. Journal of Materials Science and Technology, 2013, 29, 1047-1052.	10.7	31
39	Monolayer Graphene/Germanium Schottky Junction As High-Performance Self-Driven Infrared Light Photodetector. ACS Applied Materials & Interfaces, 2013, 5, 9362-9366.	8.0	347
40	Monolayer Graphene Film on ZnO Nanorod Array for Highâ€Performance Schottky Junction Ultraviolet Photodetectors. Small, 2013, 9, 2872-2879.	10.0	271
41	Fabrication of p-type ZnSe:Sb nanowires for high-performance ultraviolet light photodetector application. Nanotechnology, 2013, 24, 095603.	2.6	36
42	High performance nonvolatile memory devices based on Cu_{2â^'x}Se nanowires. Applied Physics Letters, 2013, 103, 193501.	3.3	13
43	Improving deep subwavelength imaging through terminal interface design of metallo-dielectric multilayered stacks. Journal of Nanophotonics, 2013, 7, 073091.	1.0	3
44	Terminal interface effect in metal-dielectric multilayer. , 2013, , .		0
45	Ultra-deep subwavelength periodic patterning through multilayered metamaterial microcavity. Proceedings of SPIE, 2012, , .	0.8	3
46	p-CdTe nanoribbon/n-silicon nanowires array heterojunctions: photovoltaic devices and zero-power photodetectors. CrystEngComm, 2012, 14, 7222.	2.6	38
47	Tailoring the electrical properties of tellurium nanowires via surface charge transfer doping. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	13
48	Sensitivity enhanced all-optical switching using prism-grating coupled surface plasmon modes. Optics Communications, 2010, 283, 151-154.	2.1	7
49	Reflective all-optical switching in metallic slab coated by sinusoidally corrugated nonlinear optical materials. , 2009, , .		0