

# Jiaming Hao

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

4,068  
citations

331670

21  
h-index

315739

38  
g-index

48  
all docs

48  
docs citations

48  
times ranked

3506  
citing authors

#	ARTICLE	IF	CITATIONS
1	High performance optical absorber based on a plasmonic metamaterial. Applied Physics Letters, 2010, 96, .	3.3	1,071
2	Manipulating Electromagnetic Wave Polarizations by Anisotropic Metamaterials. Physical Review Letters, 2007, 99, 063908.	7.8	679
3	Nearly total absorption of light and heat generation by plasmonic metamaterials. Physical Review B, 2011, 83, .	3.2	440
4	Electromagnetic metasurfaces: physics and applications. Advances in Optics and Photonics, 2019, 11, 380.	25.5	324
5	Tailor the Functionalities of Metasurfaces Based on a Complete Phase Diagram. Physical Review Letters, 2015, 115, 235503.	7.8	230
6	Super-reflection and cloaking based on zero index metamaterial. Applied Physics Letters, 2010, 96, .	3.3	226
7	Optical metamaterial for polarization control. Physical Review A, 2009, 80, .	2.5	141
8	A transparent metamaterial to manipulate electromagnetic wave polarizations. Optics Letters, 2011, 36, 927.	3.3	126
9	Photothermal reshaping of gold nanoparticles in a plasmonic absorber. Optics Express, 2011, 19, 14726.	3.4	108
10	Electromagnetic wave scatterings by anisotropic metamaterials: Generalized $\frac{4\pi}{\lambda} \frac{1}{\sin^2 \theta}$ trans method. Physical Review B, 2008, 77, .	3.2	82
11	Shape-dependent absorption characteristics of three-layered metamaterial absorbers at near-infrared. Journal of Applied Physics, 2011, 109, .	2.5	71
12	Manipulating the wavefront of light by plasmonic metasurfaces operating in high order modes. Optics Express, 2016, 24, 8788.	3.4	44
13	Large-area, Broadband, Wide-angle Plasmonic Metasurface Absorber for Midwavelength Infrared Atmospheric Transparency Window. Advanced Optical Materials, 2019, 7, 1900841.	7.3	44
14	Anomalous behavior of nearly-entire visible band manipulated with degenerated image dipole array. Nanoscale, 2014, 6, 12303-12309.	5.6	43
15	Large-area, lithography-free, narrow-band and highly directional thermal emitter. Nanoscale, 2019, 11, 19742-19750.	5.6	39
16	Studies on Sensing Properties and Mechanism of CuO Nanoparticles to H <sub>2</sub> S Gas. Nanomaterials, 2020, 10, 774.	4.1	39
17	Design of an ultrathin broadband transparent and high-conductive screen using plasmonic nanostructures. Optics Letters, 2012, 37, 4955.	3.3	38
18	All-dimensional subwavelength cavities made with metamaterials. Applied Physics Letters, 2006, 89, 104101.	3.3	36

#	ARTICLE	IF	CITATIONS
19	Theoretical realization of robust broadband transparency in ultrathin seamless nanostructures by dual blackbodies for near infrared light. <i>Nanoscale</i> , 2013, 5, 3373.	5.6	36
20	Tailor the surface-wave properties of a plasmonic metal by a metamaterial capping. <i>Optics Express</i> , 2013, 21, 18178.	3.4	25
21	Self-Assembly of Carbon Black/AAO Templates on Nanoporous Si for Broadband Infrared Absorption. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 4081-4087.	8.0	25
22	Spatial and Frequency Selective Plasmonic Metasurface for Long Wavelength Infrared Spectral Region. <i>Advanced Optical Materials</i> , 2018, 6, 1800337.	7.3	23
23	Terahertz master-oscillator power-amplifier quantum cascade lasers. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	19
24	Enhancement of Low-Temperature Gas-Sensing Performance Using Substoichiometric WO <sub>3-x</sub> Modified with CuO. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 41230-41238.	8.0	19
25	Ultrasensitive ppb-level H <sub>2</sub> S gas sensor at room temperature based on WO <sub>3</sub> /rGO hybrids. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 5008-5016.	2.2	18
26	Ultrathin, broadband, omnidirectional, and polarization-independent infrared absorber using all-dielectric refractory materials. <i>Nanophotonics</i> , 2021, 10, 1683-1690.	6.0	16
27	Wide gamut, angle-insensitive structural colors based on deep-subwavelength bilayer media. <i>Nanophotonics</i> , 2020, 9, 3385-3392.	6.0	16
28	Gas Sensing Performance and Mechanism of CuO(p)-WO <sub>3</sub> (n) Composites to H <sub>2</sub> S Gas. <i>Nanomaterials</i> , 2020, 10, 1162.	4.1	13
29	Highly polarization-sensitive far infrared detector based on an optical antenna integrated aligned carbon nanotube film. <i>Nanoscale</i> , 2020, 12, 11808-11817.	5.6	12
30	Tight-binding analysis of coupling effects in metamaterials. <i>Journal of Applied Physics</i> , 2011, 109, 023103.	2.5	11
31	Nonlocal effective-medium theory for periodic multilayered metamaterials. <i>Journal of Optics (United Kingdom)</i> 11, 074314	2.2	10
32	Remarkable photoluminescence enhancement of CsPbBr <sub>3</sub> perovskite quantum dots assisted by metallic thin films. <i>Nanophotonics</i> , 2021, 10, 2257-2264.	6.0	10
33	Long-wavelength infrared selective emitter for thermal infrared camouflage under a hot environment. <i>Optics Express</i> , 2022, 30, 24132.	3.4	10
34	Dark-Current-Blocking Mechanism in BIB Far-Infrared Detectors by Interfacial Barriers. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 2804-2809.	3.0	5
35	High-Performance Room-Temperature Extended-Wavelength InAs-Based Middle-Wavelength Infrared Photodetector. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2100281.	1.8	5
36	One-step ion beam irradiation manufacture of 3D micro/nanopatterned structures in SiC with tunable work functions. <i>Carbon</i> , 2019, 148, 387-393.	10.3	4

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37	Flexible Transparent Heat Mirror for Thermal Applications. <i>Nanomaterials</i> , 2020, 10, 2479.	4.1	4
38	Dynamically reconfigurable subwavelength optical device for hydrogen sulfide gas sensing. <i>Photonics Research</i> , 2021, 9, 2060.	7.0	4
39	Tailor the functionalities of metasurfaces based on a complete phase diagram. , 2016, , .		2
40	Resonance-induced transmissions through waveguides below cut-off frequencies: An effective-medium model for waveguide. , 2007, , .		0
41	Extraordinary transmission in metamaterial-loaded waveguides: effective-medium models, microwave experiments and tight binding studies. , 2008, , .		0
42	Directional emissions achieved with anomalous reflection phases of metamaterials. <i>Journal of Applied Physics</i> , 2010, 107, 023109.	2.5	0
43	Photothermal phenomena in plasmonics and metamaterials. , 2011, , .		0
44	Reflectionless ultrathin microwave waveplate based on metamaterials. , 2012, , .		0
45	Plasmonic metasurfaces: From perfect absorption to phase modulation. , 2015, , .		0
46	Shaping the flow of light based on abrupt phase discontinuities operation in high order modes. , 2016, , .		0
47	Broadband transmissive quarter-wave plate using double-layer metallic structures. , 2018, , .		0
48	A Robust Equivalent Circuit Model for Magnetic Polaritons in SiC Grooves. <i>Plasmonics</i> , 2021, 16, 2147.	3.4	0