Dao-Hua Zhang

List of Publications by Year
in descending order

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78 papers	1,118 citations	394421 19 h-index	454955 30 g-index
78 all docs	78 docs citations	78 times ranked	1556 citing authors

#	Article	IF	Citations
1	Ultrathin Dual-Band Metasurface Polarization Converter. IEEE Transactions on Antennas and Propagation, 2019, 67, 4636-4641.	5.1	120
2	On-chip discrimination of orbital angular momentum of light with plasmonic nanoslits. Nanoscale, 2016, 8, 2227-2233.	5.6	76
3	On-chip photonic Fourier transform with surface plasmon polaritons. Light: Science and Applications, 2016, 5, e16034-e16034.	16.6	58
4	Ultrathin Highly Luminescent Twoâ€Monolayer Colloidal CdSe Nanoplatelets. Advanced Functional Materials, 2019, 29, 1901028.	14.9	56
5	Surface plasmon enhanced infrared photodetection. Opto-Electronic Advances, 2019, 2, 18002601-18002610.	13.3	53
6	Surface plasmon induced direct detection of long wavelength photons. Nature Communications, 2017, 8, 1660.	12.8	51
7	Manipulating Coherent Lightâ€“Matter Interaction: Continuous Transition between Strong Coupling and Weak Coupling in MoS₂ Monolayer Coupled with Plasmonic Nanocavities. Advanced Optical Materials, 2019, 7, 1900857.	7.3	48
8	Multifunctional Hyperbolic Nanogroove Metasurface for Submolecular Detection. Small, 2017, 13, 1700600.	10.0	46
9	Concurrent Inhibition and Redistribution of Spontaneous Emission from All Inorganic Perovskite Photonic Crystals. ACS Photonics, 2019, 6, 1331-1337.	6.6	39
10	Plasmonic semiconductor nanogroove array enhanced broad spectral band millimetre and terahertz wave detection. Light: Science and Applications, 2021, 10, 58.	16.6	32
11	Polarization-Controlled Plasmonic Structured Illumination. Nano Letters, 2020, 20, 2602-2608.	9.1	29
12	Si metasurface half-wave plates demonstrated on a 12-inch CMOS platform. Nanophotonics, 2020, 9, 149-157.	6.0	28
13	Strong Plasmonâ€“Exciton Interactions on Nanoantenna Arrayâ€“Monolayer WS₂ Hybrid System. Advanced Optical Materials, 2020, 8, 1901002.	7.3	28
14	Subâ€100â€nm Sized Silver Split Ring Resonator Metamaterials with Fundamental Magnetic Resonance in the Middle Visible Spectrum. Advanced Optical Materials, 2014, 2, 280-285.	7.3	25
15	Observation of the Kinetic Inductance Limitation for the Fundamental Magnetic Resonance in Ultrasmall Gold vâ€Shape Split Ring Resonators. Advanced Optical Materials, 2016, 4, 1047-1052.	7.3	24
16	Polarization invariant plasmonic nanostructures for sensing applications. Scientific Reports, 2017, 7, 7539.	3.3	21
17	Room temperature plasmon-enhanced InAs0.91Sb0.09-based heterojunction n-i-p mid-wave infrared photodetector. Applied Physics Letters, 2018, 113, .	3.3	21
18	Defect-Induced Tunable Permittivity of Epsilon-Near-Zero in Indium Tin Oxide Thin Films. Nanomaterials, 2018, 8, 922.	4.1	20

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19	High quality InAsSb-based heterostructure n-i-p mid-wavelength infrared photodiode. Applied Surface Science, 2018, 427, 605-608.	6.1	19
20	Large contrast enhancement by sonication assisted cold development process for low dose and ultrahigh resolution patterning on ZEP520A positive tone resist. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2012, 30, 051601.	1.2	17
21	Polarization-Resolved Plasmon-Modulated Emissions of Quantum Dots Coupled to Aluminum Dimers with Sub-20 nm Gaps. ACS Photonics, 2018, 5, 1566-1574.	6.6	17
22	Controlling Spontaneous Emission from Perovskite Nanocrystals with Metalâ€“Emitterâ€“Metal Nanostructures. Crystals, 2021, 11, 1.	2.2	17
23	Preferential Excitation of the Hybrid Magneticâ€“Electric Mode as a Limiting Mechanism for Achievable Fundamental Magnetic Resonance in Planar Aluminum Nanostructures. Advanced Materials, 2016, 28, 889-896.	21.0	15
24	Single Plasmonic Structure Enhanced Dual-band Room Temperature Infrared Photodetection. Scientific Reports, 2018, 8, 1548.	3.3	14
25	Combining sonicated cold development and pulsed electrodeposition for high aspect ratio sub-10 nm gap gold dimers for sensing applications in the visible spectrum. Nanoscale, 2018, 10, 5221-5228.	5.6	13
26	High Order Magnetic and Electric Resonant Modes of Split Ring Resonator Metasurface Arrays for Strong Enhancement of Mid-Infrared Photodetection. ACS Applied Materials & Interfaces, 2020, 12, 8835-8844.	8.0	13
27	Real-Time Angular Sensitivity Compensation of Guided-Mode Resonance Filter. IEEE Photonics Technology Letters, 2014, 26, 231-234.	2.5	12
28	Ultra-small v-shaped gold split ring resonators for biosensing using fundamental magnetic resonance in the visible spectrum. Nanotechnology, 2017, 28, 405305.	2.6	11
29	Electrically controlled enhancement in plasmonic mid-infrared photodiode. Optics Express, 2018, 26, 5452.	3.4	11
30	Antenna-assisted subwavelength metalâ€“InGaAsâ€“metal structure for sensitive and direct photodetection of millimeter and terahertz waves. Photonics Research, 2019, 7, 89.	7.0	11
31	Study of dual color infrared photodetection from n-GaSb/n-InAsSb heterostructures. AIP Advances, 2016, 6, 025120.	1.3	10
32	Study of dark current in mid-infrared InAsSb-based heteron-i-pphotodiode. Journal Physics D: Applied Physics, 2018, 51, 275102.	2.8	10
33	Reliable Fabrication of High Aspect Ratio Plasmonic Nanostructures Based on Seedless Pulsed Electrodeposition. Advanced Materials Technologies, 2019, 4, 1800364.	5.8	10
34	Hybridized surface lattice modes in intercalated 3-disk plasmonic crystals for high figure-of-merit plasmonic sensing. Nanoscale, 2021, 13, 4092-4102.	5.6	9
35	Temperature dependence of BaTiO3 infrared dielectric properties. Applied Physics Letters, 2006, 88, 212902.	3.3	7
36	Subwavelength Focusing Using Plasmonic Wavelength-Launched Zone Plate Lenses. Plasmonics, 2011, 6, 269-272.	3.4	7

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37	Designing arbitrary nanoscale patterns by a nanocavity waveguide with omnidirectional illumination. Applied Physics B: Lasers and Optics, 2012, 109, 215-219.	2.2	7
38	Sub-10-nm Size and Sub-40-nm Pitch Metal Dot Patterning for Low-Cost Bit Patterned Media Application. IEEE Nanotechnology Magazine, 2014, 13, 496-501.	2.0	7
39	Surface Plasmon Enhancement on Infrared Photodetection. Procedia Engineering, 2016, 140, 152-158.	1.2	7
40	Surface-enhanced Raman scattering of silver thin films on as-roughened substrate by reactive ion etching. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	7
41	InAs0.9Sb0.1-based hetero-p-i-n structure grown on GaSb with high mid-infrared photodetection performance at room temperature. Journal of Materials Science, 2018, 53, 13010-13017.	3.7	7
42	Elimination of spurious solutions from kÂ·p theory with Fourier transform technique and Burt-Foreman operator ordering. Journal of Applied Physics, 2012, 111, 053702.	2.5	6
43	Two-dimensional metallic square-hole array for enhancement of mid-wavelength infrared photodetection. Optical and Quantum Electronics, 2016, 48, 1.	3.3	6
44	Hybrid Transverseâ€“Longitudinal Modes for High Figureâ€ofâ€Merit Localized Plasmonic Refractometric Sensing in the Visible Spectrum. Advanced Optical Materials, 2020, 8, 1901739.	7.3	6
45	Subwavelength lithography using metallic grating waveguide heterostructure. Applied Physics A: Materials Science and Processing, 2012, 107, 123-126.	2.3	5
46	Broadband Absorption Tailoring of SiO2/Cu/ITO Arrays Based on Hybrid Coupled Resonance Mode. Nanomaterials, 2019, 9, 852.	4.1	5
47	Efficient and wide spectrum half-cylindrical hyperlens with symmetrical metallodielectric structure. Applied Physics A: Materials Science and Processing, 2012, 107, 31-34.	2.3	4
48	Design of sharp bends with transformation plasmonics. Applied Physics A: Materials Science and Processing, 2013, 112, 549-553.	2.3	4
49	InAs_{0.91}Sb_{0.09}photoconductor for near and middle infrared photodetection. Physica Scripta, 2016, 91, 115801.	2.5	4
50	Plasmonâ€“exciton systems with high quantum yield using deterministic aluminium nanostructures with rotational symmetries. Nanoscale, 2019, 11, 20315-20323.	5.6	4
51	Band Structure of Strained $mathrm{Ge}_{1-x}~mathrm{Sn}_{x}$ Alloy: A Full-Zone 30-Band ${k}cdot{p}$ Model. IEEE Journal of Quantum Electronics, 2020, 56, 1-8.	1.9	4
52	Great Enhancement Effect of 20â€“40 nm Ag NPs on Solar-Blind UV Response of the Mixed-Phase MgZnO Detector. ACS Omega, 2021, 6, 6699-6707.	3.5	4
53	Nearly total optical transmission of linearly polarized light through transparent electrode composed of GaSb monolithic high-contrast grating integrated with gold. Nanophotonics, 2021, 10, 3823-3830.	6.0	4
54	Mid-Infrared Emission From InAs Quantum Dots Grown by Metalâ€“Organic Vapor Phase Epitaxy. IEEE Nanotechnology Magazine, 2006, 5, 683-686.	2.0	3

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55	Analysis of wetting layer effect on electronic structures of truncated-pyramid quantum dots. Optical and Quantum Electronics, 2011, 42, 705-711.	3.3	3
56	A Simple Method for the Growth of Very Smooth and Ultra-Thin GaSb Films on GaAs (111) Substrate by MOCVD. Journal of Electronic Materials, 2017, 46, 3867-3872.	2.2	3
57	Effect of Size on the Electronic Structure and Optical Properties of Cubic CsPbBr₃ Quantum Dots. IEEE Journal of Quantum Electronics, 2020, 56, 1-7.	1.9	3
58	Resonance Modes of Tall Plasmonic Nanostructures and Their Applications for Biosensing. IEEE Journal of Quantum Electronics, 2020, 56, 1-7.	1.9	3
59	Interplays of Dipole and Chargeâ€Transferâ€Plasmon Modes in Capacitively and Conductively Coupled Dimer with High Aspect Ratio Nanogaps. Advanced Optical Materials, 0, , 2100748.	7.3	3
60	Study of InAs/GaAs quantum dots grown by MOVPE under the safer growth conditions. Journal of Nanoparticle Research, 2007, 9, 877-884.	1.9	2
61	A sensitive sensor with a double U-shaped ring-based metamaterial. Applied Physics A: Materials Science and Processing, 2014, 117, 537-540.	2.3	2
62	Figure of Merit for Optimization of Metalâ€“Dielectric Multilayer Lenses. IEEE Nanotechnology Magazine, 2014, 13, 452-457.	2.0	2
63	Six-band k/spl middot/p approach to the effects of doping on energy dispersion in p-type strained In/sub 0.15/Ga/sub 0.85/As-Al/sub 0.33/Ga/sub 0.67/As quantum-well structures. IEEE Journal of Quantum Electronics, 2000, 36, 835-841.	1.9	1
64	A Novel Technique to Re-construct 3D Void in Passivated Metal Interconnects. Materials Research Society Symposia Proceedings, 2003, 766, 481.	0.1	1
65	Superlens for lithography. , 2010, , .		1
66	Asymmetric Split H-Shape Resonator Array for Enhancement of Midwave Infrared Photodetection. IEEE Journal of Quantum Electronics, 2019, 55, 1-6.	1.9	1
67	GeSn/GaAs Hetero-Structure by Magnetron Sputtering. IEEE Journal of Quantum Electronics, 2020, 56, 1-5.	1.9	1
68	Beam splitting and a hollow light cone from a metamaterial based on a metallic nanorod array. , 2010, , .		0
69	The substrate cooling effect of ion beam post treatment on ZAO films properties. , 2012, , .		0
70	The new way of controlling aluminum-doped zinc oxide films properties: ion beam post-treatment with cooling system. Applied Physics A: Materials Science and Processing, 2013, 112, 569-573.	2.3	0
71	Manipulating Surface Plasmon Polaritons on the meta-surface. , 2013, , .		0
72	Beam focusing by an anisotropic metal-dielectric multilayer structure. , 2013, , .		0

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73	Sub-wavelength structures and their optical properties. , 2014, , .		0
74	Room temperature strong coupling of monolayer WS<inf>2</inf> with gold nanoantennae. , 2017, , .		0
75	Growth of Direct Bandgap Ge1â^'xSnx Alloys by Modified Magnetron Sputtering. IEEE Journal of Quantum Electronics, 2020, 56, 1-4.	1.9	0
76	Dark Current Analysis of InAsSb-Based Hetero-$p{ext{-}}i{ext{-}}n$ Mid-Infrared Photodiode. IEEE Journal of Quantum Electronics, 2020, 56, 1-6.	1.9	0
77	Virtual Special Issue Dedicated to the 10th International Conference on Materials for Advanced Technologies (ICMAT), Symposium C: Semiconductor Photonics. IEEE Journal of Quantum Electronics, 2020, 56, 1-3.	1.9	0
78	Localized surface plasmon enhanced infrared photodetectors for uncooled imaging systems. , 2019, , .		0