

Hongyu Chen

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

3,781

citations

29

h-index

61

g-index

70

ext. papers

4,708

ext. citations

8.4

avg, IF

5.66

L-index

#	Paper	IF	Citations
66	An Ultrahigh Responsivity (9.7 mA/W) Self-Powered Solar-Blind Photodetector Based on Individual ZnO/Ga ₂ O ₃ Heterostructures. <i>Advanced Functional Materials</i> , 2017 , 27, 1700264	15.6	441
65	New concept ultraviolet photodetectors. <i>Materials Today</i> , 2015 , 18, 493-502	21.8	428
64	Nanostructured Photodetectors: From Ultraviolet to Terahertz. <i>Advanced Materials</i> , 2016 , 28, 403-33	24	376
63	Solar-Blind Avalanche Photodetector Based On Single ZnO-Ga ₂ O Core-Shell Microwire. <i>Nano Letters</i> , 2015 , 15, 3988-93	11.5	258
62	Ultrasensitive Self-Powered Solar-Blind Deep-Ultraviolet Photodetector Based on All-Solid-State Polyaniline/MgZnO Bilayer. <i>Small</i> , 2016 , 12, 5809-5816	11	186
61	Binary response Se/ZnO p-n heterojunction UV photodetector with high on/off ratio and fast speed. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1600257	8.3	142
60	Self-Powered Ultraviolet Photodetectors Driven by Built-In Electric Field. <i>Small</i> , 2017 , 13, 1701687	11	139
59	Realization of a self-powered ZnO MSM UV photodetector with high responsivity using an asymmetric pair of Au electrodes. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 9689-9694	7.1	130
58	A Dual-Band Multilayer InSe Self-Powered Photodetector with High Performance Induced by Surface Plasmon Resonance and Asymmetric Schottky Junction. <i>ACS Nano</i> , 2018 , 12, 8739-8747	16.7	120
57	Novel p-n Heterojunctions Self-Powered Broadband Photodetectors with Ultrafast Speed and High Responsivity. <i>Advanced Functional Materials</i> , 2017 , 27, 1703166	15.6	101
56	Scalable-Production, Self-Powered TiO ₂ Nanowell-Organic Hybrid UV Photodetectors with Tunable Performances. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 33924-33932	9.5	97
55	Broadband Photoresponse Enhancement of a High-Performance t-Se Microtube Photodetector by Plasmonic Metallic Nanoparticles. <i>Advanced Functional Materials</i> , 2016 , 26, 6641-6648	15.6	94
54	A surface oxide thin layer of copper nanowires enhanced the UV selective response of a ZnO film photodetector. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 8416-8421	7.1	91
53	Dual-color ultraviolet photodetector based on mixed-phase-MgZnO/i-MgO/p-Si double heterojunction. <i>Applied Physics Letters</i> , 2012 , 101, 081104	3.4	71
52	An Electrically Modulated Single-Color/Dual-Color Imaging Photodetector. <i>Advanced Materials</i> , 2020 , 32, e1907257	24	67
51	Robust Piezo-Phototronic Effect in Multilayer InSe for High-Performance Self-Powered Flexible Photodetectors. <i>ACS Nano</i> , 2019 , 13, 7291-7299	16.7	65
50	High Responsivity and High Rejection Ratio of Self-Powered Solar-Blind Ultraviolet Photodetector Based on PEDOT:PSS/EGaO Organic/Inorganic p-n Junction. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 6850-6856	6.4	62

49	Ultrafast and Sensitive Self-Powered Photodetector Featuring Self-Limited Depletion Region and Fully Depleted Channel with van der Waals Contacts. <i>ACS Nano</i> , 2020 , 14, 9098-9106	16.7	57
48	Efficiency enhancement of TiO ₂ self-powered UV photodetectors using a transparent Ag nanowire electrode. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 3334-3340	7.1	56
47	Self-Powered n-SnO ₂ /p-CuZnS Core/Shell Microwire UV Photodetector with Optimized Performance. <i>Advanced Optical Materials</i> , 2018 , 6, 1800213	8.1	51
46	Wavelength-Tunable Electroluminescent Light Sources from Individual Ga-Doped ZnO Microwires. <i>Small</i> , 2017 , 13, 1604034	11	50
45	A mixed-dimensional 1D Se-2D InSe van der Waals heterojunction for high responsivity self-powered photodetectors. <i>Nanoscale Horizons</i> , 2020 , 5, 564-572	10.8	43
44	An ultrahigh responsivity self-powered solar-blind photodetector based on a centimeter-sized GaO/polyaniline heterojunction. <i>Nanoscale</i> , 2020 , 12, 1406-1413	7.7	41
43	Novel BeZnO Based Self-Powered Dual-Color UV Photodetector Realized via a One-Step Fabrication Method. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1700222	8.3	40
42	Hollow Spherical Nanoshell Arrays of 2D Layered Semiconductor for High-Performance Photodetector Device. <i>Advanced Functional Materials</i> , 2018 , 28, 1705153	15.6	39
41	Hybrid quadrupolar resonances stimulated at short wavelengths using coupled plasmonic silver nanoparticle aggregation. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 56-63	7.1	37
40	Highly Desirable Photodetectors Derived from Versatile Plasmonic Nanostructures. <i>Advanced Functional Materials</i> , 2017 , 27, 1704181	15.6	35
39	Realization of unbiased photoresponse in amorphous InGaZnO ultraviolet detector via a hole-trapping process. <i>Applied Physics Letters</i> , 2015 , 106, 171103	3.4	33
38	Enhanced solar-blind responsivity of photodetectors based on cubic MgZnO films via gallium doping. <i>Optics Express</i> , 2014 , 22, 246-53	3.3	30
37	Realization of a fast-response flexible ultraviolet photodetector employing a metal/semiconductor/metal structure InGaZnO photodiode. <i>RSC Advances</i> , 2015 , 5, 87993-87997	3.7	28
36	Mott-type Mg _x Zn _{1-x} O-based visible-blind ultraviolet photodetectors with active anti-reflection layer. <i>Applied Physics Letters</i> , 2013 , 102, 231122	3.4	24
35	2D WS ₂ Based Asymmetric Schottky Photodetector with High Performance. <i>Advanced Electronic Materials</i> , 2021 , 7, 2000964	6.4	24
34	Novel π -Shaped Core/Shell Photodetector with High Ultraviolet Selectivity and Enhanced Responsivity. <i>Advanced Functional Materials</i> , 2017 , 27, 1704477	15.6	21
33	Tunable enhancement of exciton emission from MgZnO by hybridized quadrupole plasmons in Ag nanoparticle aggregation. <i>Applied Physics Letters</i> , 2014 , 104, 091119	3.4	21
32	Shape evolution of two dimensional hexagonal boron nitride single domains on Cu/Ni alloy and its applications in ultraviolet detection. <i>Nanotechnology</i> , 2019 , 30, 245706	3.4	17

31	Vertical MgZnO Schottky ultraviolet photodetector with Al doped MgZnO transparent electrode. <i>Thin Solid Films</i> , 2013 , 548, 456-459	2.2	17
30	Solution-Growth Strategy for Large-Scale CuGaO ₂ Nanoplate/ZnS Microsphere Heterostructure Arrays with Enhanced UV Adsorption and Optoelectronic Properties. <i>Advanced Functional Materials</i> , 2017 , 27, 1701066	15.6	16
29	Back-to-back symmetric Schottky type UVA photodetector based on ternary alloy BeZnO. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 7776-7782	7.1	15
28	Plasmon-enhanced ultraviolet photoluminescence from the hybrid plasmonic Fabry-Perot microcavity of Ag/ZnO microwires. <i>Nanoscale</i> , 2014 , 6, 1354-61	7.7	15
27	High-Performance van der Waals Metal-Insulator-Semiconductor Photodetector Optimized with Valence Band Matching. <i>Advanced Functional Materials</i> , 2021 , 31, 2104359	15.6	15
26	Synchronous Enhancement for Responsivity and Response Speed in InSe Photodetector Modulated by Piezoresistive Effect. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47098-47105	9.5	15
25	The nutrient requirements of Lactobacillus rhamnosus GG and their application to fermented milk. <i>Journal of Dairy Science</i> , 2019 , 102, 5971-5978	4	13
24	Metabolic profiles of cysteine, methionine, glutamate, glutamine, arginine, aspartate, asparagine, alanine and glutathione in Streptococcus thermophilus during pH-controlled batch fermentations. <i>Scientific Reports</i> , 2018 , 8, 12441	4.9	13
23	Tunable Hybridized Quadrupole Plasmons and Their Coupling with Excitons in ZnMgO/Ag System. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 679-684	3.8	13
22	Synthesis of High-Quality Multilayer Hexagonal Boron Nitride Films on Au Foils for Ultrahigh Rejection Ratio Solar-Blind Photodetection. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 28351-28359	9.5	12
21	High performance polarization-sensitive self-powered imaging photodetectors based on a p-Te/n-MoSe van der Waals heterojunction with strong interlayer transition. <i>Materials Horizons</i> , 2021 , 8, 3113-3123	14.4	12
20	Tunability of hybridized plasmonic waveguide mediated by surface plasmon polaritons. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 16233-40	3.6	10
19	DENSITY FUNCTIONAL THEORY STUDIES OF CHARGED, COPPER-DOPED, SMALL SILICON CLUSTERS, $\{\text{CuSi}_n\}^{\pm}$ ($n = 1-7$). <i>Journal of Theoretical and Computational Chemistry</i> , 2012 , 11, 185-196	1.8	9
18	Back-to-back asymmetric Schottky-type self-powered UV photodetector based on ternary alloy MgZnO. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 505112	3	8
17	Determination of Thiophanate-Methyl and Carbendazim in Rapeseed by Solid Phase Extraction and Ultra High Performance Chromatography with Photodiode Array Detection. <i>Instrumentation Science and Technology</i> , 2015 , 43, 511-523	1.4	8
16	Anti-ambipolar behavior and photovoltaic effect in p-MoTe ₂ /n-InSe heterojunctions. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 10372-10380	7.1	8
15	A Polarization-Sensitive Self-Powered Photodetector Based on a p-WSe ₂ /TaIrTe ₃ /n-MoS ₂ van der Waals Heterojunction. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 61544-61554	9.5	8
14	Strong Anisotropy and Piezo-Phototronic Effect in SnO ₂ Microwires. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901441	6.4	7

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| 13 | Characterization of Volatile Compounds by SPME-GC-MS During the Ripening of Kedong Sufu, a Typical Chinese Traditional Bacteria-Fermented Soybean Product. <i>Journal of Food Science</i> , 2019 , 84, 2441-2448 | 3.4 | 6 |
| 12 | Fate of hexaconazole and isoprothiolane in rice, soil and water under field conditions. <i>International Journal of Environmental Analytical Chemistry</i> , 2016 , 96, 38-49 | 1.8 | 6 |
| 11 | Genome-wide analysis of ATP-binding cassette transporter provides insight to genes related to bioactive metabolite transportation in <i>Salvia miltiorrhiza</i> . <i>BMC Genomics</i> , 2021 , 22, 315 | 4.5 | 6 |
| 10 | Dissipation and residue fate of kresoxim-methyl in tobacco leaves and soil under field conditions. <i>International Journal of Environmental Analytical Chemistry</i> , 2015 , 95, 1338-1352 | 1.8 | 5 |
| 9 | Metabolic Profiles of Carbohydrates in During pH-Controlled Batch Fermentation. <i>Frontiers in Microbiology</i> , 2020 , 11, 1131 | 5.7 | 5 |
| 8 | Transcriptomic and proteomic profiling revealed global changes in <i>Streptococcus thermophilus</i> during pH-controlled batch fermentations. <i>Journal of Microbiology</i> , 2019 , 57, 769-780 | 3 | 4 |
| 7 | TatD DNases of African trypanosomes confer resistance to host neutrophil extracellular traps. <i>Science China Life Sciences</i> , 2021 , 64, 621-632 | 8.5 | 4 |
| 6 | Short communication: Nutrient consumption patterns of <i>Lactobacillus acidophilus</i> KLDS 1.0738 in controlled pH batch fermentations. <i>Journal of Dairy Science</i> , 2017 , 100, 5188-5194 | 4 | 3 |
| 5 | Gate-Tunable Photovoltaic Effect in MoTe ₂ Lateral Homo Junction. <i>Advanced Electronic Materials</i> , 2021 , 10, 2101144 | 4.4 | 3 |
| 4 | Near-infrared photodetectors based on CH ₃ NH ₃ PbI ₃ perovskite single crystals for bioimaging applications. <i>Journal of Materials Chemistry C</i> , 2021 , 10, 274-280 | 7.1 | 2 |
| 3 | The catalyst-free growth of layer-structured CuInSe ₂ /In ₂ Se ₃ microwires for ultrasensitive self-powered photodetectors based on a lateral p-n junction. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 9484-9491 | 7.1 | 2 |
| 2 | Activated Triplet Exciton Release for Highly Efficient Room-Temperature Phosphorescence Based on S,N-Doped Polymeric Carbon Nitride. <i>Journal of Physical Chemistry Letters</i> , 2022 , 13, 726-732 | 6.4 | 1 |
| 1 | A theoretical study of the dependence of the AS _x Si _{6-x} cluster structures and properties on composition. <i>International Journal of Quantum Chemistry</i> , 2012 , 112, 1499-1506 | 2.1 | |