

Jun-jie Qi

List of Publications by Year in Descending Order

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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.

58 papers	1,529 citations	21 h-index	38 g-index
62 ext. papers	1,807 ext. citations	6.8 avg, IF	4.82 L-index

#	Paper	IF	Citations
58	Cesium trifluoroacetate induced synergistic effects of grain growth and defect passivation on high-performance perovskite solar cells. <i>Chemical Engineering Journal</i> , 2022 , 136936	14.7	0
57	Regulating the crystalline phase of intermediate films enables FA1-xMAxPbI3 perovskite solar cells with efficiency over 22%. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 24064-24070	13	4
56	Defect Engineering in Ultrathin SnSe Nanosheets for High-Performance Optoelectronic Applications. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 33226-33236	9.5	11
55	In-situ TEM investigation of MoS2 wrinkles and its effects on electrical properties. <i>Materials Chemistry and Physics</i> , 2021 , 257, 123797	4.4	1
54	Co/Eu co-doped electron transport layer enhances charge extraction and light absorption for efficient carbon-based HTM-free perovskite solar cells. <i>International Journal of Energy Research</i> , 2021 , 45, 5224-5234	4.5	1
53	Evolution of interlayer stacking orders and rotations in bilayer PtSe2 visualized by STEM. <i>2D Materials</i> , 2021 , 8, 025014	5.9	2
52	Atomic-scale dynamics of the phase transition in bilayer PtSe2. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 5261-5266	7.1	0
51	Selective Photoexcitation of Finite-Momentum Excitons in Monolayer MoS by Twisted Light. <i>ACS Nano</i> , 2021 , 15, 3481-3489	16.7	3
50	Improved efficiency and stability of perovskite solar cells with molecular ameliorating of ZnO nanorod/perovskite interface and Mg-doping ZnO*. <i>Chinese Physics B</i> , 2021 , 30, 038801	1.2	0
49	Engineering inorganic lead halide perovskite deposition toward solar cells with efficiency approaching 20%. <i>Aggregate</i> , 2021 , 2, 66-83	22.9	12
48	Recent Advances in Strain-Induced Piezoelectric and Piezoresistive Effect-Engineered 2D Semiconductors for Adaptive Electronics and Optoelectronics. <i>Nano-Micro Letters</i> , 2020 , 12, 106	19.5	37
47	High mobility monolayer MoS2 transistors and its charge transport behaviour under E-beam irradiation. <i>Journal of Materials Science</i> , 2020 , 55, 14315-14325	4.3	4
46	Spontaneously induced magnetic anisotropy in an ultrathin Co/MoS heterojunction. <i>Nanoscale Horizons</i> , 2020 , 5, 1058-1064	10.8	0
45	High-Performance Broadband Photodetector Based on Monolayer MoS Hybridized with Environment-Friendly CuInSe Quantum Dots. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 54927-54935	8.5	14
44	Anomalous lattice vibrations of CVD-grown monolayer MoS probed using linear polarized excitation light. <i>Nanoscale</i> , 2019 , 11, 13725-13730	7.7	15
43	Promoted performance of carbon based perovskite solar cells by environmentally friendly additives of CH3COONH4 and Zn(CH3COO)2. <i>Journal of Alloys and Compounds</i> , 2019 , 802, 694-703	5.7	12
42	Dependence of the photo-response behavior of self-assembled 2D Azo-derivatives on the functional groups on a solid surface. <i>New Journal of Chemistry</i> , 2019 , 43, 6262-6266	3.6	1

41	High-performance carbon-based perovskite solar cells through the dual role of PC61BM. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 2767-2775	6.8	4
40	High-performance g-C3N4 added carbon-based perovskite solar cells insulated by Al2O3 layer. <i>Solar Energy</i> , 2019 , 193, 859-865	6.8	21
39	Strain Improving the Performance of a Flexible Monolayer MoS2 Photodetector. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900803	6.4	23
38	Piezoresistive Sensors Based on rGO 3D Microarchitecture: Coupled Properties Tuning in Local/Integral Deformation. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800461	6.4	23
37	Stretchable and multifunctional strain sensors based on 3D graphene foams for active and adaptive tactile imaging. <i>Science China Materials</i> , 2019 , 62, 555-565	7.1	15
36	Transparent and flexible tactile sensors based on graphene films designed for smart panels. <i>Journal of Materials Science</i> , 2018 , 53, 9589-9597	4.3	19
35	Force and light tuning vertical tunneling current in the atomic layered MoS. <i>Nanotechnology</i> , 2018 , 29, 275202	3.4	10
34	Highly stretchable strain sensors with reduced graphene oxide sensing liquids for wearable electronics. <i>Nanoscale</i> , 2018 , 10, 5264-5271	7.7	95
33	Self-assemblies of TTF derivatives programmed by alkyl chains and functional groups. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 6383-6389	3.6	6
32	A High-Performance Self-Powered Photodetector Based on Monolayer MoS2/Perovskite Heterostructures. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701275	4.6	75
31	Self-powered, high response and fast response speed metal-insulator-semiconductor structured photodetector based on 2D MoS2. <i>RSC Advances</i> , 2018 , 8, 28041-28047	3.7	13
30	Effect of UV Irradiation and Heat Treatment on the Surface Potential Distribution of Monolayer WS2 on SiO2/Si and Au Substrates. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701083	4.6	5
29	High Response, Self-Powered Photodetector Based on the Monolayer MoS2/P-Si Heterojunction with Asymmetric Electrodes. <i>Langmuir</i> , 2018 , 34, 14151-14157	4	26
28	Tuning Transport and Photoelectric Performance of Monolayer MoS2 Device by E-Beam Irradiation. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800348	4.6	14
27	Layer Dependence and Light Tuning Surface Potential of 2D MoS2 on Various Substrates. <i>Small</i> , 2017 , 13, 1603103	11	47
26	Ultra-thin, transparent and flexible tactile sensors based on graphene films with excellent anti-interference. <i>RSC Advances</i> , 2017 , 7, 30506-30512	3.7	10
25	The enhanced performance of piezoelectric nanogenerator via suppressing screening effect with Au particles/ZnO nanoarrays Schottky junction. <i>Nano Research</i> , 2016 , 9, 372-379	10	47
24	The coupling influence of UV illumination and strain on the surface potential distribution of a single ZnO micro/nano wire. <i>Nano Research</i> , 2016 , 9, 2572-2580	10	9

23	Piezoelectric effect in chemical vapour deposition-grown atomic-monolayer triangular molybdenum disulfide piezotronics. <i>Nature Communications</i> , 2015 , 6, 7430	17.4	193
22	ZnO nano-array-based EGFET biosensor for glucose detection. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 119, 807-811	2.6	21
21	Size dependence and UV irradiation tuning of the surface potential in single conical ZnO nanowires. <i>RSC Advances</i> , 2015 , 5, 42075-42080	3.7	24
20	Influence of piezoelectric effect on dissolving behavior and stability of ZnO micro/nanowires in solution. <i>RSC Advances</i> , 2015 , 5, 3365-3369	3.7	7
19	Dissolving behavior and electrical properties of ZnO wire in HCl solution. <i>RSC Advances</i> , 2015 , 5, 44563-44566	3.7	4
18	Influence of the carrier concentration on the piezotronic effect in a ZnO/Au Schottky junction. <i>Nanoscale</i> , 2015 , 7, 4461-7	7.7	26
17	A self-powered ultraviolet detector based on a single ZnO microwire/p-Si film with double heterojunctions. <i>Nanoscale</i> , 2014 , 6, 6025-9	7.7	49
16	Investigation of electron beam detection properties of ZnO nanowire based back-to-back double Schottky diode. <i>RSC Advances</i> , 2014 , 4, 12743	3.7	8
15	Bias-tunable dual-mode ultraviolet photodetectors for photoelectric tachometer. <i>Applied Physics Letters</i> , 2014 , 104, 041108	3.4	16
14	Enhancing sensitivity of force sensor based on a ZnO tetrapod by piezo-phototronic effect. <i>Applied Physics Letters</i> , 2013 , 103, 143125	3.4	17
13	Size effect in a cantilevered ZnO micro/nanowire and its potential as a performance tunable force sensor. <i>RSC Advances</i> , 2013 , 3, 19375	3.7	25
12	A self-powered strain sensor based on a ZnO/PEDOT:PSS hybrid structure. <i>RSC Advances</i> , 2013 , 3, 17011	3.7	26
11	Saturated blue-violet electroluminescence from single ZnO micro/nanowire and p-GaN film hybrid light-emitting diodes. <i>Applied Physics Letters</i> , 2013 , 102, 221103	3.4	28
10	Temperature-dependent electron transport in ZnO micro/nanowires. <i>Journal of Applied Physics</i> , 2012 , 112, 084313	2.5	12
9	Scanning probe study on the piezotronic effect in ZnO nanomaterials and nanodevices. <i>Advanced Materials</i> , 2012 , 24, 4647-55	24	205
8	Electrically pumped lasing from single ZnO micro/nanowire and poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) hybrid heterostructures. <i>Applied Physics Letters</i> , 2012 , 101, 043119	3.4	18
7	Tuning electronic transport of ZnO micro/nanowires by a transverse electric field. <i>Applied Physics Letters</i> , 2011 , 99, 063105	3.4	5
6	Flexible piezoresistive strain sensor based on single Sb-doped ZnO nanobelts. <i>Applied Physics Letters</i> , 2010 , 97, 223107	3.4	48

5	Self-powered ultraviolet photodetector based on a single Sb-doped ZnO nanobelt. <i>Applied Physics Letters</i> , 2010 , 97, 223113	3-4	133
4	Electrical breakdown of ZnO nanowires in metal-semiconductor-metal structure. <i>Applied Physics Letters</i> , 2010 , 96, 253112	3-4	29
3	Localized ultraviolet photoresponse in single bent ZnO micro/nanowires. <i>Applied Physics Letters</i> , 2010 , 97, 133112	3-4	15
2	Room temperature negative differential resistance based on a single ZnO nanowire/CuPc nanofilm hybrid heterojunction. <i>Applied Physics Letters</i> , 2010 , 97, 263118	3-4	15
1	Controllable synthesis of well-dispersed and uniform-sized single crystalline zinc hydroxystannate nanocubes. <i>CrystEngComm</i> , 2010 , 12, 4156	3-3	21