

Jun-jie Qi

List of Publications by Citations

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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 | Scanning probe study on the piezotronic effect in ZnO nanomaterials and nanodevices. <i>Advanced Materials</i> , 2012 , 24, 4647-55 | 24 | 205 |
| 57 | Piezoelectric effect in chemical vapour deposition-grown atomic-monolayer triangular molybdenum disulfide piezotronics. <i>Nature Communications</i> , 2015 , 6, 7430 | 17.4 | 193 |
| 56 | Self-powered ultraviolet photodetector based on a single Sb-doped ZnO nanobelt. <i>Applied Physics Letters</i> , 2010 , 97, 223113 | 3.4 | 133 |
| 55 | Highly stretchable strain sensors with reduced graphene oxide sensing liquids for wearable electronics. <i>Nanoscale</i> , 2018 , 10, 5264-5271 | 7.7 | 95 |
| 54 | A High-Performance Self-Powered Photodetector Based on Monolayer MoS ₂ /Perovskite Heterostructures. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701275 | 4.6 | 75 |
| 53 | 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 |
| 52 | Flexible piezoresistive strain sensor based on single Sb-doped ZnO nanobelts. <i>Applied Physics Letters</i> , 2010 , 97, 223107 | 3.4 | 48 |
| 51 | Layer Dependence and Light Tuning Surface Potential of 2D MoS on Various Substrates. <i>Small</i> , 2017 , 13, 1603103 | 11 | 47 |
| 50 | 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 |
| 49 | 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 |
| 48 | Electrical breakdown of ZnO nanowires in metal-semiconductor-metal structure. <i>Applied Physics Letters</i> , 2010 , 96, 253112 | 3.4 | 29 |
| 47 | 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 |
| 46 | A self-powered strain sensor based on a ZnO/PEDOT:PSS hybrid structure. <i>RSC Advances</i> , 2013 , 3, 17011 | 3.7 | 26 |
| 45 | 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 |
| 44 | High Response, Self-Powered Photodetector Based on the Monolayer MoS/P-Si Heterojunction with Asymmetric Electrodes. <i>Langmuir</i> , 2018 , 34, 14151-14157 | 4 | 26 |
| 43 | 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 |
| 42 | 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 |

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| 41 | Strain Improving the Performance of a Flexible Monolayer MoS ₂ Photodetector. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900803 | 6.4 | 23 |
| 40 | 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 |
| 39 | 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 |
| 38 | High-performance g-C ₃ N ₄ added carbon-based perovskite solar cells insulated by Al ₂ O ₃ layer. <i>Solar Energy</i> , 2019 , 193, 859-865 | 6.8 | 21 |
| 37 | Controllable synthesis of well-dispersed and uniform-sized single crystalline zinc hydroxystannate nanocubes. <i>CrystEngComm</i> , 2010 , 12, 4156 | 3.3 | 21 |
| 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 | 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 |
| 34 | 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 |
| 33 | Bias-tunable dual-mode ultraviolet photodetectors for photoelectric tachometer. <i>Applied Physics Letters</i> , 2014 , 104, 041108 | 3.4 | 16 |
| 32 | Anomalous lattice vibrations of CVD-grown monolayer MoS probed using linear polarized excitation light. <i>Nanoscale</i> , 2019 , 11, 13725-13730 | 7.7 | 15 |
| 31 | Localized ultraviolet photoresponse in single bent ZnO micro/nanowires. <i>Applied Physics Letters</i> , 2010 , 97, 133112 | 3.4 | 15 |
| 30 | 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 |
| 29 | 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 |
| 28 | 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 |
| 27 | Tuning Transport and Photoelectric Performance of Monolayer MoS ₂ Device by E-Beam Irradiation. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800348 | 4.6 | 14 |
| 26 | Self-powered, high response and fast response speed metal-insulator-semiconductor structured photodetector based on 2D MoS ₂ . <i>RSC Advances</i> , 2018 , 8, 28041-28047 | 3.7 | 13 |
| 25 | Promoted performance of carbon based perovskite solar cells by environmentally friendly additives of CH ₃ COONH ₄ and Zn(CH ₃ COO) ₂ . <i>Journal of Alloys and Compounds</i> , 2019 , 802, 694-703 | 5.7 | 12 |
| 24 | Temperature-dependent electron transport in ZnO micro/nanowires. <i>Journal of Applied Physics</i> , 2012 , 112, 084313 | 2.5 | 12 |

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| 23 | Engineering inorganic lead halide perovskite deposition toward solar cells with efficiency approaching 20%. <i>Aggregate</i> , 2021 , 2, 66-83 | 22.9 | 12 |
| 22 | Defect Engineering in Ultrathin SnSe Nanosheets for High-Performance Optoelectronic Applications. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 33226-33236 | 9.5 | 11 |
| 21 | 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 |
| 20 | Force and light tuning vertical tunneling current in the atomic layered MoS. <i>Nanotechnology</i> , 2018 , 29, 275202 | 3.4 | 10 |
| 19 | 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 |
| 18 | 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 |
| 17 | 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 |
| 16 | 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 |
| 15 | Tuning electronic transport of ZnO micro/nanowires by a transverse electric field. <i>Applied Physics Letters</i> , 2011 , 99, 063105 | 3.4 | 5 |
| 14 | Effect of UV Irradiation and Heat Treatment on the Surface Potential Distribution of Monolayer WS ₂ on SiO ₂ /Si and Au Substrates. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701083 | 4.6 | 5 |
| 13 | High mobility monolayer MoS ₂ transistors and its charge transport behaviour under E-beam irradiation. <i>Journal of Materials Science</i> , 2020 , 55, 14315-14325 | 4.3 | 4 |
| 12 | 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 |
| 11 | Dissolving behavior and electrical properties of ZnO wire in HCl solution. <i>RSC Advances</i> , 2015 , 5, 44563-44566 | 3.7 | 4 |
| 10 | Regulating the crystalline phase of intermediate films enables FA _{1-x} MA _x PbI ₃ perovskite solar cells with efficiency over 22%. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 24064-24070 | 13 | 4 |
| 9 | Selective Photoexcitation of Finite-Momentum Excitons in Monolayer MoS by Twisted Light. <i>ACS Nano</i> , 2021 , 15, 3481-3489 | 16.7 | 3 |
| 8 | Evolution of interlayer stacking orders and rotations in bilayer PtSe ₂ visualized by STEM. <i>2D Materials</i> , 2021 , 8, 025014 | 5.9 | 2 |
| 7 | 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 |
| 6 | In-situ TEM investigation of MoS ₂ wrinkles and its effects on electrical properties. <i>Materials Chemistry and Physics</i> , 2021 , 257, 123797 | 4.4 | 1 |

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| 5 | 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 |
| 4 | Spontaneously induced magnetic anisotropy in an ultrathin Co/MoS heterojunction. <i>Nanoscale Horizons</i> , 2020 , 5, 1058-1064 | 10.8 | 0 |
| 3 | Atomic-scale dynamics of the phase transition in bilayer PtSe ₂ . <i>Journal of Materials Chemistry C</i> , 2021 , 9, 5261-5266 | 7.1 | 0 |
| 2 | 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 |
| 1 | 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 |