

Le Huang

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.

62

papers

2,419

citations

28

h-index

48

g-index

71

ext. papers

2,959

ext. citations

7

avg, IF

5.3

L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 62 | Perovskite CsPbBr ₃ decorating PbS nanocrystals for efficient near-infrared light-emitting diodes: A first-principles study. <i>Computational Materials Science</i> , 2022 , 209, 111361 | 3.2 | 0 |
| 61 | Hybrid 1D/2D heterostructure with electronic structure engineering toward high-sensitivity and polarization-dependent photodetector. <i>Science China Materials</i> , 2022 , 65, 732-740 | 7.1 | 4 |
| 60 | Enhanced Stability and Luminous Performance for Structured Mn-Doped CsPbCl ₃ Quantum Dots. <i>ChemistrySelect</i> , 2021 , 6, 11237-11243 | 1.8 | 0 |
| 59 | High hardness metal compounds: Prediction of Re ₃ C under pressure. <i>Applied Physics Letters</i> , 2021 , 119, 221902 | 3.4 | |
| 58 | Stimuli-Responsive Materials from Ferrocene-Based Organic Small Molecule for Wearable Sensors. <i>Small</i> , 2021 , 17, e2103125 | 11 | 5 |
| 57 | Blue Molecular Emitter-Free and Doping-Free White Organic Light-Emitting Diodes With High Color Rendering. <i>IEEE Electron Device Letters</i> , 2021 , 42, 387-390 | 4.4 | 8 |
| 56 | Strain-Induced Tunable Band Offsets in Blue Phosphorus and WSe ₂ van der Waals Heterostructure. <i>Crystals</i> , 2021 , 11, 470 | 2.3 | 0 |
| 55 | Role of octahedral deformation in the broad-band emission in Mn-doped lead halide perovskite: First-principles investigation for the case of CsPbX ₃ (X = Cl, Br, I). <i>Applied Physics Letters</i> , 2021 , 118, 163901 | 3.4 | 2 |
| 54 | Universal Strategy Integrating Strain and Interface Engineering to Drive High-Performance 2D Material Photodetectors. <i>Advanced Optical Materials</i> , 2021 , 9, 2100450 | 8.1 | 8 |
| 53 | Ferroelectric-tuned van der Waals heterojunction with band alignment evolution. <i>Nature Communications</i> , 2021 , 12, 4030 | 17.4 | 18 |
| 52 | Cubic-cubic perovskite quantum dots/PbS mixed dimensional materials for highly efficient CO ₂ reduction. <i>Journal of Power Sources</i> , 2021 , 481, 228838 | 8.9 | 9 |
| 51 | Controlled growth of 2D ultrathin Ga ₂ O ₃ crystals on liquid metal. <i>Nanoscale Advances</i> , 2021 , 3, 4411-4415 | 15.1 | 4 |
| 50 | A first principles study of p-type doping in two dimensional GaN. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 20901-20908 | 3.6 | 2 |
| 49 | Gate-controlled ambipolar transport in b-AsP crystals and their VIS-NIR photodetection. <i>Nanoscale</i> , 2021 , 13, 10579-10586 | 7.7 | 4 |
| 48 | Deep insights into interface engineering by buffer layer for efficient perovskite solar cells: a first-principles study. <i>Science China Materials</i> , 2020 , 63, 1588-1596 | 7.1 | 3 |
| 47 | Strain engineering coupled with optical regulation towards a high-sensitivity In ₂ S ₃ photodetector. <i>Materials Horizons</i> , 2020 , 7, 1427-1435 | 14.4 | 32 |
| 46 | Orbital localization induced magnetization in nonmetal-doped phosphorene. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 155001 | 3 | 1 |

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| 45 | Two-dimensional transition metal dichalcogenides for lead halide perovskites-based photodetectors: band alignment investigation for the case of CsPbBr ₃ /MoSe ₂ . <i>Journal of Semiconductors</i> , 2020 , 41, 052206 | 2.3 | 8 |
| 44 | Reversible lithium storage capacity on carbon nitride by electric field. <i>Superlattices and Microstructures</i> , 2020 , 137, 106340 | 2.8 | 0 |
| 43 | Improved Photoluminescence in 2D Semiconductors Induced by Interface Magnetization. <i>ACS Photonics</i> , 2020 , 7, 3341-3345 | 6.3 | 3 |
| 42 | Two-dimensional X Se ₂ (X = Mn, V) based magnetic tunneling junctions with high Curie temperature. <i>Chinese Physics B</i> , 2019 , 28, 107504 | 1.2 | 12 |
| 41 | A new family of cation-disordered Zn(Cu)Si ₂ P ₂ compounds as high-performance anodes for next-generation Li-ion batteries. <i>Energy and Environmental Science</i> , 2019 , 12, 2286-2297 | 35.4 | 32 |
| 40 | Self-Powered SnS ₂ Alloy/Silicon Heterojunction Photodetectors with High Sensitivity in a Wide Spectral Range. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 40222-40231 | 9.5 | 37 |
| 39 | The Coulomb interaction in van der Waals heterostructures. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019 , 62, 1 | 3.6 | 19 |
| 38 | Press-engineered funnel effect in MoS ₂ monolayer homojunction. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 055103 | 3 | 1 |
| 37 | Electronic structure and exciton shifts in Sb-doped MoS ₂ monolayer. <i>Npj 2D Materials and Applications</i> , 2019 , 3, | 8.8 | 56 |
| 36 | Synthesis of submillimeter SnSexS _{2-x} (0 Journal of Materials Chemistry C, 2018 , 6, 4985-4993 | 7.1 | 7 |
| 35 | Tunable Polarity Behavior and High-Performance Photosensitive Characteristics in Schottky-Barrier Field-Effect Transistors Based on Multilayer WS ₂ . <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 2745-2751 | 9.5 | 13 |
| 34 | Fabrication of a high performance ZnIn ₂ S ₄ /Si heterostructure photodetector array for weak signal detection. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12928-12939 | 7.1 | 20 |
| 33 | Large tunneling magnetoresistance in magnetic tunneling junctions based on two-dimensional CrX (X = Br, I) monolayers. <i>Nanoscale</i> , 2018 , 10, 22196-22202 | 7.7 | 26 |
| 32 | Turning a disadvantage into an advantage: synthesizing high-quality organometallic halide perovskite nanosheet arrays for humidity sensors. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2504-2508 | 7.1 | 52 |
| 31 | Tunable Schottky Barrier at MoSe ₂ /Metal Interfaces with a Buffer Layer. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 9305-9311 | 3.8 | 31 |
| 30 | Light induced double band state anti-ambipolar behavior and self-driven photoswitching in p-WSe ₂ /n-SnS ₂ heterostructures. <i>2D Materials</i> , 2017 , 4, 025097 | 5.9 | 46 |
| 29 | High-performance photodetectors based on Sb ₂ S ₃ nanowires: wavelength dependence and wide temperature range utilization. <i>Nanoscale</i> , 2017 , 9, 12364-12371 | 7.7 | 52 |
| 28 | Modulation of electronic and optical properties in mixed halide perovskites CsPbCl _{3-x} Br _{3(1-x)} and CsPbBr _{3-x} I _{3(1-x)} . <i>Applied Physics Letters</i> , 2017 , 110, 113901 | 3.4 | 26 |

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| 27 | Large-scale 2D Pbl monolayers: experimental realization and their indirect band-gap related properties. <i>Nanoscale</i> , 2017 , 9, 3736-3741 | 7.7 | 75 |
| 26 | Short-Wave Near-Infrared Linear Dichroism of Two-Dimensional Germanium Selenide. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14976-14982 | 16.4 | 191 |
| 25 | A two-dimensional Fe-doped SnS magnetic semiconductor. <i>Nature Communications</i> , 2017 , 8, 1958 | 17.4 | 214 |
| 24 | Computational design of enhanced photocatalytic activity of two-dimensional cadmium iodide. <i>RSC Advances</i> , 2017 , 7, 53653-53657 | 3.7 | 9 |
| 23 | Role of defects in enhanced Fermi level pinning at interfaces between metals and transition metal dichalcogenides. <i>Physical Review B</i> , 2017 , 96, | 3.3 | 20 |
| 22 | Composition-tunable 2D SnSe ₂ (1-x)S _{2x} alloys towards efficient bandgap engineering and high performance (opto)electronics. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 84-90 | 7.1 | 64 |
| 21 | Co-nucleus 1D/2D Heterostructures with Bi ₂ S ₃ Nanowire and MoS ₂ Monolayer: One-Step Growth and Defect-Induced Formation Mechanism. <i>ACS Nano</i> , 2016 , 10, 8938-46 | 16.7 | 55 |
| 20 | Large-Size 2D Ecu S Nanosheets with Giant Phase Transition Temperature Lowering (120 K) Synthesized by a Novel Method of Super-Cooling Chemical-Vapor-Deposition. <i>Advanced Materials</i> , 2016 , 28, 8271-8276 | 24 | 46 |
| 19 | Anti-Ambipolar Field-Effect Transistors Based On Few-Layer 2D Transition Metal Dichalcogenides. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15574-81 | 9.5 | 56 |
| 18 | Enhanced rectification, transport property and photocurrent generation of multilayer ReSe ₂ /MoS ₂ p-n heterojunctions. <i>Nano Research</i> , 2016 , 9, 507-516 | 10 | 107 |
| 17 | Large scale ZrS ₂ atomically thin layers. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 3143-3148 | 7.1 | 43 |
| 16 | Tuned polarity and enhanced optoelectronic performances of few-layer Nb _{0.125} Re _{0.875} Se ₂ flakes. <i>Applied Physics Letters</i> , 2016 , 109, 112102 | 3.4 | 6 |
| 15 | Structural anisotropy results in strain-tunable electronic and optical properties in monolayer GeX and SnX (X = S, Se, Te). <i>Journal of Chemical Physics</i> , 2016 , 144, 114708 | 3.9 | 125 |
| 14 | Tunable electronic structure of black phosphorus/blue phosphorus van der Waals p-n heterostructure. <i>Applied Physics Letters</i> , 2016 , 108, 083101 | 3.4 | 91 |
| 13 | Flexible photodetectors based on phase dependent Pbl ₂ single crystals. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6492-6499 | 7.1 | 77 |
| 12 | Direct Vapor Phase Growth and Optoelectronic Application of Large Band Offset SnS ₂ /MoS ₂ Vertical Bilayer Heterostructures with High Lattice Mismatch. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600298 | 6.4 | 128 |
| 11 | An Efficient and Low-Cost Photolithographic-Pattern-Transfer Technique to Fabricate Electrode Arrays for Micro-/Nanoelectronics. <i>Advanced Materials Technologies</i> , 2016 , 1, 1600001 | 6.8 | 23 |
| 10 | Synthesis and transport properties of large-scale alloy Co _(0.16) Mo _(0.84) S ₂ bilayer nanosheets. <i>ACS Nano</i> , 2015 , 9, 1257-62 | 16.7 | 64 |

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| 9 | Electric-Field Tunable Band Offsets in Black Phosphorus and MoS ₂ van der Waals p-n Heterostructure. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2483-8 | 6.4 | 153 |
| 8 | Ab Initio Study of the Dielectric and Electronic Properties of Multilayer GaS Films. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1059-64 | 6.4 | 29 |
| 7 | Electrical and magnetic properties of FeS ₂ and CuFeS ₂ nanoplates. <i>RSC Advances</i> , 2015 , 5, 91103-91107 | 3.7 | 25 |
| 6 | Effects of strain on the band gap and effective mass in two-dimensional monolayer GaX (X = S, Se, Te). <i>RSC Advances</i> , 2015 , 5, 5788-5794 | 3.7 | 54 |
| 5 | Strain induced piezoelectric effect in black phosphorus and MoS ₂ van der Waals heterostructure. <i>Scientific Reports</i> , 2015 , 5, 16448 | 4.9 | 73 |
| 4 | Tunable Polarity Behavior and Self-Driven Photoswitching in p-WSe ₂ /n-WS ₂ Heterojunctions. <i>Small</i> , 2015 , 11, 5430-8 | 11 | 84 |
| 3 | Intrinsic defects in gallium sulfide monolayer: a first-principles study. <i>RSC Advances</i> , 2015 , 5, 50883-50889 | 3.7 | 24 |
| 2 | Influential Electronic and Magnetic Properties of the Gallium Sulfide Monolayer by Substitutional Doping. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 29148-29156 | 3.8 | 32 |
| 1 | The Study on the Catalytic Effect of HBr on the Hydrolyzed Silica-Coated Quantum Dots of CsPbBr ₃ with Improved Stability. <i>Journal of Electronic Materials</i> , 1 | 1.9 | |