

Le Huang

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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	A two-dimensional Fe-doped SnS magnetic semiconductor. <i>Nature Communications</i> , 2017 , 8, 1958	17.4	214
61	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
60	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
59	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
58	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
57	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
56	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
55	Tunable Polarity Behavior and Self-Driven Photoswitching in p-WSe ₂ /n-WS ₂ Heterojunctions. <i>Small</i> , 2015 , 11, 5430-8	11	84
54	Flexible photodetectors based on phase dependent PbI ₂ single crystals. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6492-6499	7.1	77
53	Large-scale 2D PbI monolayers: experimental realization and their indirect band-gap related properties. <i>Nanoscale</i> , 2017 , 9, 3736-3741	7.7	75
52	Strain induced piezoelectric effect in black phosphorus and MoS ₂ van der Waals heterostructure. <i>Scientific Reports</i> , 2015 , 5, 16448	4.9	73
51	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
50	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
49	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
48	Electronic structure and exciton shifts in Sb-doped MoS ₂ monolayer. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	56
47	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
46	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

45	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
44	High-performance photodetectors based on SbS nanowires: wavelength dependence and wide temperature range utilization. <i>Nanoscale</i> , 2017 , 9, 12364-12371	7.7	52
43	Light induced double band 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
42	Large-Size 2D ECuS 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
41	Large scale ZrS ₂ atomically thin layers. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 3143-3148	7.1	43
40	Self-Powered SnSSe 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	A new family of cation-disordered Zn(Cu)Bi ₂ S ₄ compounds as high-performance anodes for next-generation Li-ion batteries. <i>Energy and Environmental Science</i> , 2019 , 12, 2286-2297	35.4	32
38	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
37	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
36	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
35	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
34	Modulation of electronic and optical properties in mixed halide perovskites CsPbCl ₃ xBr ₃ (1-x) and CsPbBr ₃ xI ₃ (1-x). <i>Applied Physics Letters</i> , 2017 , 110, 113901	3.4	26
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	Electrical and magnetic properties of FeS ₂ and CuFeS ₂ nanoplates. <i>RSC Advances</i> , 2015 , 5, 91103-91107	3.7	25
31	Intrinsic defects in gallium sulfide monolayer: a first-principles study. <i>RSC Advances</i> , 2015 , 5, 50883-50889	3.7	24
30	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
29	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
28	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

27	The Coulomb interaction in van der Waals heterostructures. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019 , 62, 1	3.6	19
26	Ferroelectric-tuned van der Waals heterojunction with band alignment evolution. <i>Nature Communications</i> , 2021 , 12, 4030	17.4	18
25	Tunable Polarity Behavior and High-Performance Photosensitive Characteristics in Schottky-Barrier Field-Effect Transistors Based on Multilayer WS. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 2745-2751	9.5	13
24	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
23	Computational design of enhanced photocatalytic activity of two-dimensional cadmium iodide. <i>RSC Advances</i> , 2017 , 7, 53653-53657	3.7	9
22	Cubic-cubic perovskite quantum dots/PbS mixed dimensional materials for highly efficient CO2 reduction. <i>Journal of Power Sources</i> , 2021 , 481, 228838	8.9	9
21	Two-dimensional transition metal dichalcogenides for lead halide perovskites-based photodetectors: band alignment investigation for the case of CsPbBr3/MoSe2. <i>Journal of Semiconductors</i> , 2020 , 41, 052206	2.3	8
20	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
19	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
18	Synthesis of submillimeter SnSexS2 (0 Journal of Materials Chemistry C, 2018 , 6, 4985-4993	7.1	7
17	Tuned polarity and enhanced optoelectronic performances of few-layer Nb0.125Re0.875Se2 flakes. <i>Applied Physics Letters</i> , 2016 , 109, 112102	3.4	6
16	Stimuli-Responsive Materials from Ferrocene-Based Organic Small Molecule for Wearable Sensors. <i>Small</i> , 2021 , 17, e2103125	11	5
15	Controlled growth of 2D ultrathin Ga2O3 crystals on liquid metal. <i>Nanoscale Advances</i> , 2021 , 3, 4411-4415	15.1	4
14	Gate-controlled ambipolar transport in b-AsP crystals and their VIS-NIF photodetection. <i>Nanoscale</i> , 2021 , 13, 10579-10586	7.7	4
13	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
12	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
11	Improved Photoluminescence in 2D Semiconductors Induced by Interface Magnetization. <i>ACS Photonics</i> , 2020 , 7, 3341-3345	6.3	3
10	Role of octahedral deformation in the broad-band emission in Mn-doped lead halide perovskite: First-principles investigation for the case of CsPbX3 (X = Cl, Br, I). <i>Applied Physics Letters</i> , 2021 , 118, 163901	3.4	2

9	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
8	Orbital localization induced magnetization in nonmetal-doped phosphorene. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 155001	3	1
7	Press-engineered funnel effect in MoS2 monolayer homojunction. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 055103	3	1
6	Enhanced Stability and Luminous Performance for Structured Mn-Doped CsPbCl ₃ Quantum Dots. <i>ChemistrySelect</i> , 2021 , 6, 11237-11243	1.8	0
5	Reversible lithium storage capacity on carbon nitride by electric field. <i>Superlattices and Microstructures</i> , 2020 , 137, 106340	2.8	0
4	Strain-Induced Tunable Band Offsets in Blue Phosphorus and WSe ₂ van der Waals Heterostructure. <i>Crystals</i> , 2021 , 11, 470	2.3	0
3	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
2	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	
1	High hardness metal compounds: Prediction of Re ₃ C under pressure. <i>Applied Physics Letters</i> , 2021 , 119, 221902	3.4	