

# Ding-Jiang Xue

## List of Publications by Citations

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64

papers

5,054

citations

34

h-index

68

g-index

68

ext. papers

6,250

ext. citations

12

avg, IF

5.68

L-index

#	Paper	IF	Citations
64	Managing grains and interfaces via ligand anchoring enables 22.3%-efficiency inverted perovskite solar cells. <i>Nature Energy</i> , <b>2020</b> , 5, 131-140	62.3	552
63	Thin-film Sb <sub>2</sub> Se <sub>3</sub> photovoltaics with oriented one-dimensional ribbons and benign grain boundaries. <i>Nature Photonics</i> , <b>2015</b> , 9, 409-415	33.9	548
62	Improving the electrode performance of Ge through Ge@C core-shell nanoparticles and graphene networks. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 2512-5	16.4	411
61	Efficient tandem solar cells with solution-processed perovskite on textured crystalline silicon. <i>Science</i> , <b>2020</b> , 367, 1135-1140	33.3	298
60	Thermal evaporation and characterization of Sb <sub>2</sub> Se <sub>3</sub> thin film for substrate Sb <sub>2</sub> Se <sub>3</sub> /CdS solar cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 10687-95	9.5	235
59	Thermodynamically Stable Orthorhombic $\alpha$ -CsPbI <sub>3</sub> Thin Films for High-Performance Photovoltaics. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 11716-11725	16.4	206
58	Anisotropic photoresponse properties of single micrometer-sized GeSe nanosheet. <i>Advanced Materials</i> , <b>2012</b> , 24, 4528-33	24	196
57	GeSe Thin-Film Solar Cells Fabricated by Self-Regulated Rapid Thermal Sublimation. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 958-965	16.4	167
56	Regulating strain in perovskite thin films through charge-transport layers. <i>Nature Communications</i> , <b>2020</b> , 11, 1514	17.4	165
55	Polar Solvent Induced Lattice Distortion of Cubic CsPbI <sub>3</sub> Nanocubes and Hierarchical Self-Assembly into Orthorhombic Single-Crystalline Nanowires. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 11705-11715	16.4	154
54	General Space-Confined On-Substrate Fabrication of Thickness-Adjustable Hybrid Perovskite Single-Crystalline Thin Films. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 16196-16199	16.4	145
53	Air-Stable In-Plane Anisotropic GeSe for Highly Polarization-Sensitive Photodetection in Short Wave Region. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 4150-4156	16.4	125
52	Antimony selenide thin-film solar cells. <i>Semiconductor Science and Technology</i> , <b>2016</b> , 31, 063001	1.8	124
51	Rational design and electron transfer kinetics of MoS <sub>2</sub> /CdS nanodots-on-nanorods for efficient visible-light-driven hydrogen generation. <i>Nano Energy</i> , <b>2016</b> , 28, 319-329	17.1	113
50	Improving the performance of Sb <sub>2</sub> Se <sub>3</sub> thin film solar cells over 4% by controlled addition of oxygen during film deposition. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2015</b> , 23, 1828-1836	6.8	99
49	Fully Air-Bladed High-Efficiency Perovskite Photovoltaics. <i>Joule</i> , <b>2019</b> , 3, 402-416	27.8	95
48	Enhanced Sb <sub>2</sub> Se <sub>3</sub> solar cell performance through theory-guided defect control. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2017</b> , 25, 861-870	6.8	94

47	Facile synthesis of germanium nanocrystals and their application in organic-inorganic hybrid photodetectors. <i>Advanced Materials</i> , <b>2011</b> , 23, 3704-7	24	94
46	Bandgap engineering of monodispersed Cu(2-x)S(y)Se(1-y) nanocrystals through chalcogen ratio and crystal structure. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 18558-61	16.4	86
45	CuSbSe <sub>2</sub> as a Potential Photovoltaic Absorber Material: Studies from Theory to Experiment. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1501203	21.8	80
44	Polarization-Sensitive Ultraviolet Photodetection of Anisotropic 2D GeS <sub>2</sub> . <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1900411	15.6	78
43	Investigation of Oxygen Passivation for High-Performance All-Inorganic Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 18075-18082	16.4	76
42	Tuning the Fermi-level of TiO mesoporous layer by lanthanum doping towards efficient perovskite solar cells. <i>Nanoscale</i> , <b>2016</b> , 8, 16881-16885	7.7	75
41	Hydrazine solution processed Sb <sub>2</sub> S <sub>3</sub> , Sb <sub>2</sub> Se <sub>3</sub> and Sb <sub>2</sub> (S(1-x)Se(x)) <sub>3</sub> film: molecular precursor identification, film fabrication and band gap tuning. <i>Scientific Reports</i> , <b>2015</b> , 5, 10978	4.9	66
40	Buried homojunction in CdS/Sb <sub>2</sub> Se <sub>3</sub> thin film photovoltaics generated by interfacial diffusion. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 013901	3.4	58
39	Investigation of Physical and Electronic Properties of GeSe for Photovoltaic Applications. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1700141	6.4	51
38	In situ sulfurization to generate Sb <sub>2</sub> (Se <sub>1-x</sub> S <sub>x</sub> ) <sub>3</sub> alloyed films and their application for photovoltaics. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2017</b> , 25, 113-122	6.8	47
37	High-Efficiency CsPbI <sub>2</sub> Br Perovskite Solar Cells with Dopant-Free Poly(3-hexylthiophene) Hole Transporting Layers. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000501	21.8	44
36	In-Plane Optical Anisotropy of Low-Symmetry 2D GeSe. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1801311	8.1	44
35	Sulfurization induced surface constitution and its correlation to the performance of solution-processed Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> solar cells. <i>Scientific Reports</i> , <b>2014</b> , 4, 6288	4.9	42
34	GeSe thin-film solar cells. <i>Materials Chemistry Frontiers</i> , <b>2020</b> , 4, 775-787	7.8	41
33	Strain in perovskite solar cells: origins, impacts and regulation. <i>National Science Review</i> , <b>2021</b> , 8, nwab0470.8	10.8	40
32	Synthesis and characterization of hydrazine solution processed Cu <sub>12</sub> Sb <sub>4</sub> S <sub>13</sub> film. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 144, 33-39	6.4	39
31	Ambient CdCl <sub>2</sub> treatment on CdS buffer layer for improved performance of Sb <sub>2</sub> Se <sub>3</sub> thin film photovoltaics. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 143902	3.4	35
30	Crystallization Kinetics Modulation of FASnI Films with Pre-nucleation Clusters for Efficient Lead-Free Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 3693-3698	16.4	32

29	Generalized Water-Processed Metal Chalcogenide Complexes: Synthesis and Applications. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 8048-8057	9.6	30
28	Sb <sub>2</sub> (Se <sub>1-x</sub> S <sub>x</sub> ) <sub>3</sub> Thin-Film Solar Cells Fabricated by Single-Source Vapor Transport Deposition. <i>Solar Rrl</i> , <b>2019</b> , 3, 1800280	7.1	30
27	High-Mobility Hydrophobic Conjugated Polymer as Effective Interlayer for Air-Stable Efficient Perovskite Solar Cells. <i>Solar Rrl</i> , <b>2019</b> , 3, 1800232	7.1	24
26	Weak Interlayer Interaction in 2D Anisotropic GeSe. <i>Advanced Science</i> , <b>2019</b> , 6, 1801810	13.6	23
25	Synthesis of wurtzite Cu <sub>2</sub> ZnGeSe <sub>4</sub> nanocrystals and their thermoelectric properties. <i>Chemistry - an Asian Journal</i> , <b>2013</b> , 8, 2383-7	4.5	20
24	Solution Synthesis of Layered van der Waals (vdW) Ferromagnetic CrGeTe Nanosheets from a Non-vdW CrTeTemplate. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 4438-4444	16.4	18
23	Improving the photo current of the [60]PCBM/P3HT photodetector device by using wavelength-matched photonic crystals. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 1500	7.1	17
22	Three-Dimensional Optical Anisotropy of Low-Symmetry Layered GeS. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 24247-24253	9.5	16
21	An antibonding valence band maximum enables defect-tolerant and stable GeSe photovoltaics. <i>Nature Communications</i> , <b>2021</b> , 12, 670	17.4	16
20	Synthesis and characterization of NaSbS <sub>2</sub> thin film for potential photodetector and photovoltaic application. <i>Chinese Chemical Letters</i> , <b>2017</b> , 28, 881-887	8.1	13
19	Controlling the Crystallization Kinetics of Lead-Free Tin Halide Perovskites for High Performance Green Photovoltaics. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2102131	21.8	11
18	Strain-engineering the in-plane electrical anisotropy of GeSe monolayers. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 914-918	3.6	10
17	Boosting the efficiency of GeSe solar cells by low-temperature treatment of p-n junction. <i>Science China Materials</i> , <b>2021</b> , 64, 2118-2126	7.1	9
16	Interfacial Strain Engineering in Wide-Bandgap GeS Thin Films for Photovoltaics. <i>Journal of the American Chemical Society</i> , <b>2021</b> ,	16.4	9
15	Versatile Solution-Processed Synthesis of Two-Dimensional Ultrathin Metal Chalcogenides Following Frank-van der Merwe Growth. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 27102-27110	9.5	8
14	In-plane anisotropic 2D Ge-based binary materials for optoelectronic applications. <i>Chemical Communications</i> , <b>2021</b> , 57, 565-575	5.8	7
13	Strain-engineering the electronic properties and anisotropy of GeSe monolayers.. <i>RSC Advances</i> , <b>2018</b> , 8, 33445-33450	3.7	6
12	Identifying the Crystalline Orientation of Mechanically Exfoliated Anisotropic Layered Materials through Their Morphologies. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2000612	4.6	4

11	Room-Temperature Solution-Processed PbS Quantum Dot Solar Cells. <i>Chinese Journal of Chemistry</i> , <b>2020</b> , 38, 356-360	4.9	4
10	Strain-engineering the anisotropic electrical properties of low-symmetry bilayer GeSe. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 082524	2.5	4
9	Crystallization Kinetics Modulation of FASnI3 Films with Pre-nucleation Clusters for Efficient Lead-Free Perovskite Solar Cells. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 3737-3742	3.6	4
8	Tuning the Optical Absorption Property of GeSe Thin Films by Annealing Treatment. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2018</b> , 12, 1800370	2.5	4
7	Electro-Optic Modulation Using Metal-Free Perovskites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 19042-19047	9.5	3
6	Investigation of weak interlayer coupling in 2D layered GeS2 from theory to experiment. <i>Nano Research</i> , 1	10	2
5	One-Pot Synthesis Enables Magnetic Coupled CrTe/MnTe/CrTe Integrated Heterojunction Nanorods. <i>Nano Letters</i> , <b>2021</b> , 21, 7684-7690	11.5	2
4	Investigation of the sublimation mechanism of GeSe and GeS. <i>Chemical Communications</i> , <b>2021</b> , 57, 114615-11464	5.8	1464
3	Surface-Defect States in Photovoltaic Absorber GeSe. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 10249-10254	6.4	1
2	High-Mobility Hydrophobic Conjugated Polymer as Effective Interlayer for Air-Stable Efficient Perovskite Solar Cells (Solar RRL 10019). <i>Solar Rrl</i> , <b>2019</b> , 3, 1970015	7.1	1
1	Wide-bandgap perovskites for indoor photovoltaics. <i>Science Bulletin</i> , <b>2021</b> , 66, 2047-2049	10.6	1