Tingwei He

List of Publications by Year in descending order

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44	3,193	218381	243296
papers	citations	26 h-index	44 g-index

45	45	45	3557
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reduced-Dimensional Î±-CsPbX3 Perovskites for Efficient and Stable Photovoltaics. Joule, 2018, 2, 1356-1368.	11.7	344
2	Spectra stable blue perovskite light-emitting diodes. Nature Communications, 2019, 10, 1868.	5.8	344
3	Smoothing the energy transfer pathway in quasi-2D perovskite films using methanesulfonate leads to highly efficient light-emitting devices. Nature Communications, 2021, 12, 1246.	5.8	274
4	Reducing the impact of Auger recombination in quasi-2D perovskite light-emitting diodes. Nature Communications, 2021, 12, 336.	5.8	237
5	High-performance quasi-2D perovskite light-emitting diodes: from materials to devices. Light: Science and Applications, 2021, 10, 61.	7.7	235
6	Reduced-dimensional perovskite photovoltaics with homogeneous energy landscape. Nature Communications, 2020, 11, 1672.	5.8	191
7	Aâ€site Cation Engineering for Highly Efficient MAPbI₃ Singleâ€Crystal Xâ€ray Detector. Angewandte Chemie - International Edition, 2019, 58, 17834-17842.	7.2	174
8	High-performance large-area quasi-2D perovskite light-emitting diodes. Nature Communications, 2021, 12, 2207.	5.8	173
9	Orientation Regulation of Tinâ€Based Reducedâ€Dimensional Perovskites for Highly Efficient and Stable Photovoltaics. Advanced Functional Materials, 2019, 29, 1807696.	7.8	136
10	Scalable Assembly of Flexible Ultrathin Allâ€inâ€One Zincâ€Ion Batteries with Highly Stretchable, Editable, and Customizable Functions. Advanced Materials, 2021, 33, e2008140.	11.1	106
11	Tuning the catalytic property of non-noble metallic impurities in graphene. Carbon, 2014, 71, 139-149.	5.4	85
12	Dopant-free novel hole-transporting materials based on quinacridone dye for high-performance and humidity-stable mesoporous perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 5315-5323.	5.2	70
13	Structured Perovskite Light Absorbers for Efficient and Stable Photovoltaics. Advanced Materials, 2020, 32, e1903937.	11.1	69
14	Halogen-halogen bonds enable improved long-term operational stability of mixed-halide perovskite photovoltaics. CheM, 2021, 7, 3131-3143.	5.8	55
15	Multifunctional Naphthol Sulfonic Salt Incorporated in Lead-Free 2D Tin Halide Perovskite for Red Light-Emitting Diodes. ACS Photonics, 2020, 7, 1915-1922.	3.2	52
16	Energy-Funneling Process in Quasi-2D Perovskite Light-Emitting Diodes. Journal of Physical Chemistry Letters, 2021, 12, 2593-2606.	2.1	52
17	Recent Progress on Formamidiniumâ€Dominated Perovskite Photovoltaics. Advanced Energy Materials, 2022, 12, 2100690.	10.2	45
18	Two-dimensional perovskite capping layer for stable and efficient tin-lead perovskite solar cells. Science China Chemistry, 2019, 62, 629-636.	4.2	43

#	Article	IF	Citations
19	CH3NH3PbI3:MoS2 heterostructure for stable and efficient inverted perovskite solar cell. Solar Energy, 2020, 195, 436-445.	2.9	42
20	Structural, electronic and catalytic performances of single-atom Fe stabilized by divacancy-nitrogen-doped graphene. RSC Advances, 2017, 7, 7920-7928.	1.7	36
21	High-performance perovskite solar cells based on passivating interfacial and intergranular defects. Solar Energy Materials and Solar Cells, 2020, 212, 110555.	3.0	36
22	Modulating geometric, electronic, gas sensing and catalytic properties of single-atom Pd supported on divacancy and N-doped graphene sheets. Applied Surface Science, 2020, 508, 145245.	3.1	34
23	Improving the stability of the perovskite solar cells by V₂O₅ modified transport layer film. RSC Advances, 2017, 7, 18456-18465.	1.7	30
24	Improved thermoelectric performance in Pr and Sr Co-doped CaMnO3 materials. Journal of Alloys and Compounds, 2019, 808, 151476.	2.8	30
25	Direct Observation of Competition between Amplified Spontaneous Emission and Auger Recombination in Quasi-Two-Dimensional Perovskites. Journal of Physical Chemistry Letters, 2020, 11, 5734-5740.	2.1	28
26	Efficient and stable perovskite solar cells based on high-quality CH₃NH₃PbI_{3âˆ’x}Cl_x films modified by V₂O_x additives. Journal of Materials Chemistry A, 2017, 5, 24282-24291.	5.2	27
27	Solution processed double-decked V2Ox/PEDOT:PSS film serves as the hole transport layer of an inverted planar perovskite solar cell with high performance. RSC Advances, 2017, 7, 26202-26210.	1.7	23
28	The stable perovskite solar cell prepared by rapidly annealing perovskite film with water additive in ambient air. Solar Energy Materials and Solar Cells, 2018, 176, 280-287.	3.0	22
29	Tuning Surface Wettability of Buffer Layers by Incorporating Polyethylene Glycols for Enhanced Performance of Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 26670-26679.	4.0	20
30	Improvement in the performance of inverted planar perovskite solar cells via the CH3NH3PbI3-xClx:ZnO bulk heterojunction. Journal of Power Sources, 2018, 401, 303-311.	4.0	19
31	Planar perovskite FAxMA1-xPbI3 solar cell by two-step deposition method in air ambient. Optical Materials, 2018, 85, 55-60.	1.7	16
32	Hard and soft Lewis-base behavior for efficient and stable CsPbBr₃ perovskite light-emitting diodes. Nanophotonics, 2021, 10, 2157-2166.	2.9	16
33	Efficient and Stable FAâ€Rich Perovskite Photovoltaics: From Material Properties to Device Optimization. Advanced Energy Materials, 2022, 12, .	10.2	16
34	Aâ€site Cation Engineering for Highly Efficient MAPbI₃ Singleâ€Crystal Xâ€ray Detector. Angewandte Chemie, 2019, 131, 17998-18006.	1.6	15
35	Metal halide perovskites for blue light emitting materials. APL Materials, 2020, 8, .	2.2	15
36	Metal Halide Perovskites for Redâ€Emission Lightâ€Emitting Diodes. Small Structures, 2022, 3, .	6.9	15

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37	Formation Mechanism, Geometric Stability and Catalytic Activity of a Single Iron Atom Supported on Nâ€Doped Graphene. ChemPhysChem, 2019, 20, 2506-2517.	1.0	14
38	Conjugated Alkylamine by Twoâ€Step Surface Ligand Engineering in CsPbBr 3 Perovskite Nanocrystals for Efficient Lightâ€Emitting Diodes. ChemNanoMat, 2019, 5, 318-322.	1.5	14
39	Solvent engineering approach via introducing poly (3, 4-ethylene dioxy-thiophene)â€“poly (styrene) Tj ETQq1 1 0.784314 rgBT /Overl efficient inverted planar perovskite solar cells. Solar Energy, 2018, 176, 1-9.	2.9	12
40	Li-Doped Chemical Bath Deposited SnO₂ Enables Efficient Perovskite Photovoltaics. ACS Applied Energy Materials, 2022, 5, 5340-5347.	2.5	9
41	The Influence of ZnO Nanorod Length and Counter Electrode Material on the Photovoltaic Properties of CdS/CdSe Quantum Dots Cosensitized ZnO Nanorods Solar Cells. IEEE Journal of Photovoltaics, 2017, 7, 1653-1662.	1.5	8
42	Lead sulfide films synthesized by microwave-assisted chemical bath deposition method as efficient counter electrodes for CdS/CdSe sensitized ZnO nanorod solar cells. Solar Energy, 2019, 177, 672-678.	2.9	8
43	Multiexciton state of singlet fission in triisopropylsilylethynylâ€pentacene. Microwave and Optical Technology Letters, 2021, 63, 1399-1405.	0.9	1
44	Methylammonium- and bromide-free perovskites enable efficient and stable photovoltaics. Journal of Energy Chemistry, 2021, 63, 12-24.	7.1	1