

Wen-Hua Zhang

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.

90
papers

4,154
citations

35
h-index

62
g-index

96
ext. papers

4,974
ext. citations

10.6
avg, IF

5.81
L-index

#	Paper	IF	Citations
90	Multiple bonding effects of 1-methanesulfonyl-piperazine on the two-step processed perovskite towards efficient and stable solar cells. <i>Nano Energy</i> , 2022 , 93, 106856	17.1	4
89	Suppression of Nonradiative Recombination by Vacuum-Assisted Process for Efficient Lead-Free Tin Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100135	4.6	8
88	Solvent Free Laminated Fabrication of Lead Halide Perovskites for Sensitive and Stable X-ray Detection. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 6961-6966	6.4	9
87	Acetone-assisted precursor engineering enables low-temperature fabrication of CsPbI ₂ Br perovskite for efficient solar cells. <i>Journal of Power Sources</i> , 2021 , 482, 228965	8.9	15
86	Colloidal CsCu ₅ S ₃ nanocrystals as an interlayer in high-performance perovskite solar cells with an efficiency of 22.29%. <i>Chemical Engineering Journal</i> , 2021 , 406, 126855	14.7	12
85	Boosted charge extraction of NbO _x -enveloped SnO ₂ nanocrystals enables 24% efficient planar perovskite solar cells. <i>Energy and Environmental Science</i> , 2021 , 14, 5074-5083	35.4	33
84	Zero-Dimensional Lead-Free FABiI Single Crystals for High-Performance X-ray Detection. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 1778-1785	6.4	21
83	Efficient post-treatment of CsPbBr ₃ film with enhanced photovoltaic performance. <i>Journal of Alloys and Compounds</i> , 2021 , 872, 159601	5.7	1
82	Molecular passivation of MAPbI ₃ perovskite films follows the Langmuir adsorption rule. <i>Applied Physics Letters</i> , 2021 , 119, 101101	3.4	2
81	Strain Modulation for High Brightness Blue Luminescence of Pr ³⁺ -Doped Perovskite Nanocrystals via Siloxane Passivation. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 3815-3823	4	4
80	A facile solution processed ZnO@ZnS core-shell nanorods arrays for high-efficiency perovskite solar cells with boosted stability. <i>Journal of Energy Chemistry</i> , 2021 , 61, 553-560	12	4
79	Reducing carrier transport barrier in anode interface enables efficient and stable inverted mesoscopic methylammonium-free perovskite solar cells. <i>Chemical Engineering Journal</i> , 2021 , 425, 131499	14.7	2
78	Rear-Illuminated Perovskite Photorechargeable Lithium Battery. <i>Advanced Functional Materials</i> , 2020 , 30, 2001865	15.6	17
77	Ultrasensitive and stable X-ray detection using zero-dimensional lead-free perovskites. <i>Journal of Energy Chemistry</i> , 2020 , 49, 299-306	12	75
76	Robust Fabrication of Hybrid Lead-Free Perovskite Pellets for Stable X-ray Detectors with Low Detection Limit. <i>Advanced Materials</i> , 2020 , 32, e2001981	24	74
75	Crystallization tailoring of cesium/formamidinium double-cation perovskite for efficient and highly stable solar cells. <i>Journal of Energy Chemistry</i> , 2020 , 48, 217-225	12	33
74	Superior Textured Film and Process Tolerance Enabled by Intermediate-State Engineering for High-Efficiency Perovskite Solar Cells. <i>Advanced Science</i> , 2020 , 7, 1903009	13.6	16

73	Phenylhydrazinium Iodide for Surface Passivation and Defects Suppression in Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 2000778	15.6	54
72	High-Efficiency Perovskite Solar Cells Enabled by Anatase TiO Nanopyramid Arrays with an Oriented Electric Field. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 11969-11976	16.4	44
71	Interfacial Contact Passivation for Efficient and Stable Cesium-Formamidinium Double-Cation Lead Halide Perovskite Solar Cells. <i>IScience</i> , 2020 , 23, 100762	6.1	32
70	Defect passivation through electrostatic interaction for high performance flexible perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2020 , 46, 173-177	12	29
69	Rational Design of Sb@C@TiO Triple-Shell Nanoboxes for High-Performance Sodium-Ion Batteries. <i>Small</i> , 2020 , 16, e2001976	11	22
68	Multilayer Cascade Charge Transport Layer for High-Performance Inverted Mesoscopic All-Inorganic and Hybrid Wide-Bandgap Perovskite Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 2000344	7.1	12
67	Toward Greener Solution Processing of Perovskite Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 13126-13138	8.3	22
66	Efficient X-ray Attenuation Lead-Free AgBiI Halide Rudorffite Alternative for Sensitive and Stable X-ray Detection. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 7939-7945	6.4	16
65	High-Efficiency Perovskite Solar Cells Enabled by Anatase TiO ₂ Nanopyramid Arrays with an Oriented Electric Field. <i>Angewandte Chemie</i> , 2020 , 132, 12067-12074	3.6	5
64	Surface polarity engineering of ZnO layer for improved photoluminescence of CsPbBr ₃ quantum dot films. <i>Chemical Physics Letters</i> , 2020 , 750, 137454	2.5	1
63	Controllable Synthesis of Peapod-like Sb@C and Corn-like C@Sb Nanotubes for Sodium Storage. <i>ACS Nano</i> , 2020 , 14, 5728-5737	16.7	39
62	Defect mitigation using d-penicillamine for efficient methylammonium-free perovskite solar cells with high operational stability. <i>Chemical Science</i> , 2020 , 12, 2050-2059	9.4	38
61	A review on strategies addressing interface incompatibilities in inorganic all-solid-state lithium batteries. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 3279-3309	5.8	60
60	Green Anti-solvent Processed Efficient Flexible Perovskite Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4343-4350	8.3	21
59	Galvanic Replacement Synthesis of Highly Uniform Sb Nanotubes: Reaction Mechanism and Enhanced Sodium Storage Performance. <i>ACS Nano</i> , 2019 , 13, 5885-5892	16.7	49
58	Solution Processed Nb ₂ O ₅ Electrodes for High Efficient Ultraviolet Light Stable Planar Perovskite Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 7421-7429	8.3	31
57	Solution-Processable Perovskite Solar Cells toward Commercialization: Progress and Challenges. <i>Advanced Functional Materials</i> , 2019 , 29, 1807661	15.6	87
56	Thermally stable methylammonium-free inverted perovskite solar cells with Zn ²⁺ doped CuGaO ₂ as efficient mesoporous hole-transporting layer. <i>Nano Energy</i> , 2019 , 61, 148-157	17.1	61

55	Zwitterion Coordination Induced Highly Orientational Order of CH ₃ NH ₃ PbI ₃ Perovskite Film Delivers a High Open Circuit Voltage Exceeding 1.2 V. <i>Advanced Functional Materials</i> , 2019 , 29, 1901026	15.6	90
54	Ultrathin Bilayer of Graphite/SiO ₂ as Solid Interface for Reviving Li Metal Anode. <i>Advanced Energy Materials</i> , 2019 , 9, 1901486	21.8	84
53	Defect Passivation in Hybrid Perovskite Solar Cells by Tailoring the Electron Density Distribution in Passivation Molecules. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 44233-44240	9.5	40
52	Nanosized ReS ₂ Monolayers Embedded in Nitrogen-Doped Carbon Nanotubes for High-Rate Capacitive Lithium Storage. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800830	6.4	5
51	Synthesis, Characterization, and Photodetector Application of Alkali Metal Bismuth Chalcogenide Nanocrystals. <i>ACS Applied Energy Materials</i> , 2019 , 2, 182-186	6.1	10
50	Heterojunction Engineering for High Efficiency Cesium Formamidinium Double-Cation Lead Halide Perovskite Solar Cells. <i>ChemSusChem</i> , 2018 , 11, 808-808	8.3	2
49	High performance perovskite solar cells using TiO ₂ nanospindles as ultrathin mesoporous layer. <i>Journal of Energy Chemistry</i> , 2018 , 27, 951-956	12	26
48	Green Anti-Solvent Processed Planar Perovskite Solar Cells with Efficiency Beyond 19%. <i>Solar Rrl</i> , 2018 , 2, 1700213	7.1	65
47	Higher efficiency perovskite solar cells using Au@SiO ₂ core-shell nanoparticles. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 2260-2267	5.8	15
46	Highly crystalline Nb-doped TiO nanospindles as superior electron transporting materials for high-performance planar structured perovskite solar cells.. <i>RSC Advances</i> , 2018 , 8, 20982-20989	3.7	29
45	Heterojunction Engineering for High Efficiency Cesium Formamidinium Double-Cation Lead Halide Perovskite Solar Cells. <i>ChemSusChem</i> , 2018 , 11, 837-842	8.3	55
44	Nanocrystals of halide perovskite: Synthesis, properties, and applications. <i>Journal of Energy Chemistry</i> , 2018 , 27, 622-636	12	31
43	Thermal annealing assisted synthesis of Sb@C yolk-shell microspheres for sodium-ion batteries.. <i>RSC Advances</i> , 2018 , 8, 36826-36830	3.7	5
42	Single Pt atoms supported on oxidized graphene as a promising catalyst for hydrolysis of ammonia borane. <i>Chinese Journal of Chemical Physics</i> , 2018 , 31, 641-648	0.9	7
41	Hierarchical Nanosheet-Based MS (M = Re, Mo, W) Nanotubes Prepared by Templating Sacrificial Te Nanowires with Superior Lithium and Sodium Storage Capacity. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 37445-37452	9.5	34
40	Few-layered ReS ₂ nanosheets vertically aligned on reduced graphene oxide for superior lithium and sodium storage. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20267-20276	13	43
39	Design of an Inorganic Mesoporous Hole-Transporting Layer for Highly Efficient and Stable Inverted Perovskite Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1805660	24	139
38	Inverted Current-Voltage Hysteresis in Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2018 , 3, 2457-2460	20.1	60

37	Facile Fabrication of SnO ₂ Nanorod Arrays Films as Electron Transporting Layer for Perovskite Solar Cells. <i>Solar Rrl</i> , 2018 , 2, 1800133	7.1	32
36	Bismuth-based ternary nanowires as efficient electrocatalysts for dye sensitized solar cells. <i>Chemical Communications</i> , 2017 , 53, 5445-5448	5.8	13
35	Porous hollow carbon nanofibers derived from multi-walled carbon nanotubes and sucrose as anode materials for lithium-ion batteries. <i>RSC Advances</i> , 2017 , 7, 224-230	3.7	15
34	A High-Performance Li-O Battery with a Strongly Solvating Hexamethylphosphoramide Electrolyte and a LiPON-Protected Lithium Anode. <i>Advanced Materials</i> , 2017 , 29, 1701568	24	123
33	Long-term stability of organic/inorganic hybrid perovskite solar cells with high efficiency under high humidity conditions. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1374-1379	13	64
32	CuFeS colloidal nanocrystals as an efficient electrocatalyst for dye sensitized solar cells. <i>Chemical Communications</i> , 2016 , 52, 11488-11491	5.8	38
31	A Graphene Composite Material with Single Cobalt Active Sites: A Highly Efficient Counter Electrode for Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , 2016 , 128, 6820-6824	3.6	32
30	A Graphene Composite Material with Single Cobalt Active Sites: A Highly Efficient Counter Electrode for Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6708-12	16.4	196
29	Innenrücktitelbild: A Graphene Composite Material with Single Cobalt Active Sites: A Highly Efficient Counter Electrode for Dye-Sensitized Solar Cells (Angew. Chem. 23/2016). <i>Angewandte Chemie</i> , 2016 , 128, 6905-6905	3.6	
28	Shape and composition control of BiS(Br, I) alloyed nanowires: the role of metal ions. <i>Chemical Science</i> , 2015 , 6, 4615-4622	9.4	13
27	Nitrogen-doped carbon nanotubes with metal nanoparticles as counter electrode materials for dye-sensitized solar cells. <i>Chemical Communications</i> , 2015 , 51, 8146-9	5.8	56
26	Solvent engineering of spin-coating solutions for planar-structured high-efficiency perovskite solar cells. <i>Chinese Journal of Catalysis</i> , 2015 , 36, 1183-1190	11.3	37
25	Synthesis and characterization of anatase TiO ₂ nanosheet arrays on FTO substrate. <i>Journal of Energy Chemistry</i> , 2015 , 24, 626-631	12	15
24	An acid-free medium growth of rutile TiO ₂ nanorods arrays and their application in perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 729-733	7.1	45
23	Synthesis of oriented TiO ₂ nanocones with fast charge transfer for perovskite solar cells. <i>Nano Energy</i> , 2015 , 11, 409-418	17.1	157
22	Monodisperse AgSbS ₂ nanocrystals: size-control strategy, large-scale synthesis, and photoelectrochemistry. <i>Chemistry - A European Journal</i> , 2015 , 21, 11143-51	4.8	27
21	A solution-phase approach to Cd ₃ P ₂ nanowires: synthesis and characterization. <i>Chemical Communications</i> , 2015 , 51, 2593-6	5.8	3
20	An up-scalable approach to CH ₃ NH ₃ PbI ₃ compact films for high-performance perovskite solar cells. <i>Nano Energy</i> , 2015 , 15, 670-678	17.1	67

19	Well-defined BiOCl colloidal ultrathin nanosheets: synthesis, characterization, and application in photocatalytic aerobic oxidation of secondary amines. <i>Chemical Science</i> , 2015 , 6, 1873-1878	9.4	174
18	Podlike N-doped carbon nanotubes encapsulating FeNi alloy nanoparticles: high-performance counter electrode materials for dye-sensitized solar cells. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 7023-7	16.4	296
17	Composition-tunable $\text{Cu}_2(\text{Ge}(1-x)\text{Sn}(x))(\text{S}(3-y)\text{Se}(y))$ colloidal nanocrystals: synthesis and characterization. <i>Chemical Communications</i> , 2014 , 50, 12738-41	5.8	8
16	Fabrication of multilayered TiO_2 nanotube arrays and separable nanotube segments. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 4510	13	13
15	Organolead halide perovskite: A rising player in high-efficiency solar cells. <i>Chinese Journal of Catalysis</i> , 2014 , 35, 983-988	11.3	22
14	Organolead halide perovskites: a family of promising semiconductor materials for solar cells. <i>Science Bulletin</i> , 2014 , 59, 2092-2101		15
13	Controlled growth of semiconductor nanofilms within TiO_2 nanotubes for nanofilm sensitized solar cells. <i>Chemical Communications</i> , 2014 , 50, 4364-7	5.8	19
12	Podlike N-Doped Carbon Nanotubes Encapsulating FeNi Alloy Nanoparticles: High-Performance Counter Electrode Materials for Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , 2014 , 126, 7143-7147	3.6	41
11	Synthesis and characterization of $\text{Ag}_8(\text{Ge}(1-x)\text{Sn}(x))(\text{S}(3-y)\text{Se}(y))$ colloidal nanocrystals. <i>Chemistry - A European Journal</i> , 2014 , 20, 12426-31	4.8	7
10	Low-cost and high-performance CoMoS_4 and NiMoS_4 counter electrodes for dye-sensitized solar cells. <i>Chemical Communications</i> , 2013 , 49, 9645-7	5.8	132
9	Enhanced photocatalytic water oxidation on ZnO photoanodes in a borate buffer electrolyte. <i>Catalysis Science and Technology</i> , 2013 , 3, 1699	5.5	8
8	$\text{Cu}_2\text{Ge}(\text{S}(3-x)\text{Se}(x))$ colloidal nanocrystals: synthesis, characterization, and composition-dependent band gap engineering. <i>Journal of the American Chemical Society</i> , 2013 , 135, 5958-61	16.4	48
7	High performance hybrid solar cells sensitized by organolead halide perovskites. <i>Energy and Environmental Science</i> , 2013 , 6, 1480	35.4	491
6	The role of glutathione on shape control and photoelectrical property of cadmium sulfide nanorod arrays. <i>Journal of Colloid and Interface Science</i> , 2013 , 393, 58-65	9.3	25
5	Synthesis and luminescence properties of highly uniform spherical $\text{SiO}_2@\text{SrSi}_2\text{O}_7\text{N}_2:\text{Eu}^{2+}$ core-shell structured phosphors. <i>Journal of Materials Chemistry</i> , 2012 , 22, 488-494		21
4	Solution-Phase Synthesis and Characterization of Single-Crystalline SnSe Nanowires. <i>Angewandte Chemie</i> , 2011 , 123, 12256-12259	3.6	10
3	Solution-phase synthesis and characterization of single-crystalline SnSe nanowires. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 12050-3	16.4	122
2	Highly ordered periodic mesoporous ethanesilica synthesized under neutral conditions. <i>Journal of Materials Chemistry</i> , 2005 , 15, 2562		52

1	Advances in Tin(II)-Based Perovskite Solar Cells: From Material Physics to Device Performance. <i>Small Structures</i> ,2100102	8.7	14
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