Feng Hao

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.

106
papers7,226
citations31
h-index84
g-index112
ext. papers8,435
ext. citations9.2
avg, IF6.31
L-index

#	Paper	IF	Citations
106	Ion Migration in Organic-Inorganic Hybrid Perovskite Solar Cells: Current Understanding and Perspectives <i>Small</i> , 2022 , e2105783	11	12
105	Toward stable lead halide perovskite solar cells: A knob on the A/X sites components <i>IScience</i> , 2022 , 25, 103599	6.1	3
104	Benzotriazole derivative inhibits nonradiative recombination and improves the UV-stability of inverted MAPbI3 perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2022 , 65, 592-599	12	4
103	Facile lattice tensile strain compensation in mixed-cation halide perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2022 , 66, 422-428	12	8
102	Reducing the interfacial voltage loss in tin halides perovskite solar cells. <i>Chemical Engineering Journal</i> , 2022 , 445, 136769	14.7	5
101	Suppressing the Formation of Tin Vacancy Yields Efficient Lead-Free Perovskite Solar Cells. <i>Nano Energy</i> , 2022 , 107416	17.1	6
100	Magnesium doped spinel NiCo2O4 for improved hole extraction in efficient inverted perovskite solar cells. <i>Materials Today Communications</i> , 2022 , 31, 103750	2.5	
99	Renaissance of tin halide perovskite solar cells. <i>Journal of Semiconductors</i> , 2021 , 42, 030201	2.3	4
98	Fluorinated Oligomer Wrapped Perovskite Crystals for Inverted MAPbI Solar Cells with 21% Efficiency and Enhanced Stability. <i>ACS Applied Materials & Empty Interfaces</i> , 2021 , 13, 26093-26101	9.5	3
97	Improving the hole extraction by hexadecylbenzene modification for efficient perovskite solar cells. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021 , 781, 042042	0.3	
96	Lattice Strain Relaxation and Grain Homogenization for Efficient Inverted MAPbI Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 4569-4575	6.4	14
95	Tetrazole modulated perovskite films for efficient solar cells with improved moisture stability. <i>Chemical Engineering Journal</i> , 2021 , 420, 127579	14.7	3
94	Ionic liquid reducing energy loss and stabilizing CsPbI2Br solar cells. <i>Nano Energy</i> , 2021 , 81, 105631	17.1	28
93	Perovskite-based tandem solar cells. Science Bulletin, 2021, 66, 621-636	10.6	23
92	GreenBolvent B rocessable Perovskite Solar Cells. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2000047	1.6	12
91	Eco-friendly antisolvent enabled inverted MAPbI3 perovskite solar cells with fill factors over 84%. <i>Green Chemistry</i> , 2021 , 23, 3633-3641	10	8
90	A Green Lead Recycling Strategy from Used Lead Acid Batteries for Efficient Inverted Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 9595-9601	6.4	1

(2020-2021)

89	A critical review on the moisture stability of halide perovskite films and solar cells. <i>Chemical Engineering Journal</i> , 2021 , 430, 132701	14.7	8
88	Advances in perovskite quantum-dot solar cells. <i>Journal of Energy Chemistry</i> , 2021 , 52, 351-353	12	10
87	A chlorinated copolymer donor demonstrates a 18.13% power conversion efficiency. <i>Journal of Semiconductors</i> , 2021 , 42, 010501	2.3	81
86	Lewis acid/base approach for efficacious defect passivation in perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 12201-12225	13	79
85	Lanthanum-Doped Strontium Stannate for Efficient Electron-Transport Layers in Planar Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 6889-6896	6.1	7
84	Dynamically controlled growth of CuMoD nanosheets for efficient electrocatalytic hydrogen evolution. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 9337-9344	7.1	1
83	Coordination modulated crystallization and defect passivation in high quality perovskite film for efficient solar cells. <i>Coordination Chemistry Reviews</i> , 2020 , 420, 213408	23.2	26
82	Fused-ring phenazine building blocks for efficient copolymer donors. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 1454-1458	7.8	11
81	Progress of the key materials for organic solar cells. Science China Chemistry, 2020, 63, 758-765	7.9	101
80	Vacancy defect modulation in hot-casted NiO film for efficient inverted planar perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2020 , 48, 426-434	12	29
79	Insights into Ultrafast Carrier Dynamics in Perovskite Thin Films and Solar Cells. <i>ACS Photonics</i> , 2020 , 7, 1893-1907	6.3	16
78	Chlorine-doped SnO2 hydrophobic surfaces for large grain perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 11638-11646	7.1	22
77	Aqueous solvent-regulated crystallization and interfacial modification in perovskite solar cells with enhanced stability and performance. <i>Journal of Power Sources</i> , 2020 , 471, 228447	8.9	9
76	Toward stable and efficient Sn-containing perovskite solar cells. <i>Science Bulletin</i> , 2020 , 65, 786-790	10.6	14
75	Precise control of PbI2 excess into grain boundary for efficacious charge extraction in off-stoichiometric perovskite solar cells. <i>Electrochimica Acta</i> , 2020 , 338, 135697	6.7	14
74	Secondary lateral growth of MAPbI3 grains for the fabrication of efficient perovskite solar cells. Journal of Materials Chemistry C, 2020 , 8, 3217-3225	7.1	19
73	Improving energy level alignment by adenine for efficient and stable perovskite solar cells. <i>Nano Energy</i> , 2020 , 74, 104846	17.1	31
72	Ionic liquids engineering for high-efficiency and stable perovskite solar cells. <i>Chemical Engineering Journal</i> , 2020 , 398, 125594	14.7	41

71	Electronic structure modulation of bifunctional oxygen catalysts for rechargeable ZnBir batteries. Journal of Materials Chemistry A, 2020 , 8, 1229-1237	13	11
70	Bioinspired Electrocatalyst for Electrochemical Reduction of N to NH in Ambient Conditions. <i>ACS Applied Materials & Discours (Materials & Discours)</i> , 12, 2445-2451	9.5	28
69	Over 16% efficiency from thick-film organic solar cells. <i>Science Bulletin</i> , 2020 , 65, 1979-1982	10.6	41
68	Hot-Casting Large-Grain Perovskite Film for Efficient Solar Cells: Film Formation and Device Performance. <i>Nano-Micro Letters</i> , 2020 , 12, 156	19.5	26
67	Metal oxide alternatives for efficient electron transport in perovskite solar cells: beyond TiO2 and SnO2. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 19768-19787	13	30
66	An efficient medium-bandgap nonfullerene acceptor for organic solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8857-8861	13	11
65	CrC Nanoparticle-Embedded Carbon Nanofiber for Artificial Synthesis of NH through N Fixation under Ambient Conditions. <i>ACS Applied Materials & Amp; Interfaces</i> , 2019 , 11, 35764-35769	9.5	30
64	Off-Stoichiometric Methylammonium Iodide Passivated Large-Grain Perovskite Film in Ambient Air for Efficient Inverted Solar Cells. <i>ACS Applied Materials & Description of Solar Cells (Note: Acs Applied Materials & Description of Solar Cells)</i> 11, 39882-39889	9.5	39
63	In situ growth of EcsPbI3 perovskite nanocrystals on the surface of reduced graphene oxide with enhanced stability and carrier transport quality. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 6795-6804	7.1	25
62	Methylamine-induced defect-healing and cationic substitution: a new method for low-defect perovskite thin films and solar cells. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 10724-10742	7.1	42
61	Low-cost coenzyme Q10 as an efficient electron transport layer for inverted perovskite solar cells. Journal of Materials Chemistry A, 2019 , 7, 18626-18633	13	24
60	Carbon-based perovskite solar cells: From single-junction to modules 2019 , 1, 109-123		33
59	Emerging alkali metal ion (Li+, Na+, K+ and Rb+) doped perovskite films for efficient solar cells: recent advances and prospects. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24150-24163	13	71
58	Graphene-Modified Tin Dioxide for Efficient Planar Perovskite Solar Cells with Enhanced Electron Extraction and Reduced Hysteresis. <i>ACS Applied Materials & Discrete Solar Cells</i> , 11, 666-673	9.5	46
57	Perovskite solar cells: must lead be replaced - and can it be done?. <i>Science and Technology of Advanced Materials</i> , 2018 , 19, 425-442	7.1	99
56	Tunable Crystallization and Nucleation of Planar CHNHPbI through Solvent-Modified Interdiffusion. <i>ACS Applied Materials & Discours (Materials & Discours)</i> 10, 14673-14683	9.5	13
55	All-Solution-Processed Cu2ZnSnS4 Solar Cells with Self-Depleted Na2S Back Contact Modification Layer. <i>Advanced Functional Materials</i> , 2018 , 28, 1703369	15.6	28
54	Bifacial Modified Charge Transport Materials for Highly Efficient and Stable Inverted Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 17861-17870	9.5	21

53	Laser-Induced Flash-Evaporation Printing CHNHPbI Thin Films for High-Performance Planar Solar Cells. <i>ACS Applied Materials & Discourse (Materials & Discourse)</i> 10, 26206-26212	9.5	7
52	Role of alkyl chain length in diaminoalkane linked 2D Ruddlesden B opper halide perovskites. <i>CrystEngComm</i> , 2018 , 20, 6704-6712	3.3	17
51	Efficiently Improving the Stability of Inverted Perovskite Solar Cells by Employing Polyethylenimine-Modified Carbon Nanotubes as Electrodes. <i>ACS Applied Materials & amp; Interfaces</i> , 2018 , 10, 31384-31393	9.5	54
50	Thiazole-Induced Surface Passivation and Recrystallization of CHNHPbI Films for Perovskite Solar Cells with Ultrahigh Fill Factors. <i>ACS Applied Materials & amp; Interfaces</i> , 2018 , 10, 42436-42443	9.5	36
49	Electrocatalysts for T-Mediated Dye-Sensitized Solar Cells 2018 , 367-393		
48	Rational Design of Solution-Processed Ti-Fe-O Ternary Oxides for Efficient Planar CHNHPbI Perovskite Solar Cells with Suppressed Hysteresis. <i>ACS Applied Materials & Design Series</i> , 2017, 9, 348.	3 <i>3</i> -548	43°
47	Carbon Nanotube Based Inverted Flexible Perovskite Solar Cells with All-Inorganic Charge Contacts. <i>Advanced Functional Materials</i> , 2017 , 27, 1703068	15.6	108
46	Discrete Iron(III) Oxide Nanoislands for Efficient and Photostable Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2017 , 27, 1702090	15.6	71
45	Carrier Diffusion Lengths of over 500 nm in Lead-Free Perovskite CHNHSnI Films. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14750-14755	16.4	174
44	Role of Organic Counterion in Lead- and Tin-Based Two-Dimensional Semiconducting Iodide Perovskites and Application in Planar Solar Cells. <i>Chemistry of Materials</i> , 2016 , 28, 7781-7792	9.6	189
43	Solution-Processed Air-Stable Mesoscopic Selenium Solar Cells. ACS Energy Letters, 2016 , 1, 469-473	20.1	29
42	Solvent-Mediated Crystallization of CH3NH3SnI3 Films for Heterojunction Depleted Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2015 , 137, 11445-52	16.4	455
41	Low temperature reduction of free-standing graphene oxide papers with metal iodides for ultrahigh bulk conductivity. <i>Scientific Reports</i> , 2014 , 4, 3965	4.9	39
40	Lead-free solid-state organicIhorganic halide perovskite solar cells. <i>Nature Photonics</i> , 2014 , 8, 489-494	33.9	1966
39	Anomalous band gap behavior in mixed Sn and Pb perovskites enables broadening of absorption spectrum in solar cells. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8094-9	16.4	1010
38	Controllable perovskite crystallization at a gas-solid interface for hole conductor-free solar cells with steady power conversion efficiency over 10%. <i>Journal of the American Chemical Society</i> , 2014 , 136, 16411-9	16.4	340
37	Vertically Aligned Carbon Nanotubes/Graphene Hybrid Electrode as a TCO- and Pt-Free Flexible Cathode for Application in Solar Cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20902-20907	13	41
36	Air-stable molecular semiconducting iodosalts for solar cell applications: Cs2SnI6 as a hole conductor. <i>Journal of the American Chemical Society</i> , 2014 , 136, 15379-85	16.4	427

Highly Efficient Metal-Free Sulfur-Doped and Nitrogen and Sulfur Dual-Doped Reduced Graphene
Oxide Counter Electrodes for Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2014**, 118, 17010-17018

34	Research on Preparation and Properties of Inorganic Gelling Materials for Sand Fixation 2014 , 619-625		
33	The effects of interface misfit strain and surface tension on magnetoelectric effects in layered magnetostrictive-piezoelectric composites. <i>Journal of Applied Physics</i> , 2013 , 114, 044109	2.5	10
32	Recent molecular engineering of room temperature ionic liquid electrolytes for mesoscopic dye-sensitized solar cells. <i>RSC Advances</i> , 2013 , 3, 23521	3.7	15
31	Solvent dipole modulation of conduction band edge shift and charge recombination in robust dye-sensitized solar cells. <i>Nanoscale</i> , 2013 , 5, 726-33	7.7	15
30	Modeling of magnetoelectric effects in flexural nanobilayers: The effects of surface stress. <i>Journal of Applied Physics</i> , 2013 , 113, 104103	2.5	13
29	Recent advances in alternative cathode materials for iodine-free dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2013 , 6, 2003	35.4	124
28	One-dimensional and (001) facetted nanostructured TiO2 photoanodes for dye-sensitized solar cells. <i>Chimia</i> , 2013 , 67, 136-41	1.3	1
27	Tailoring diffusion-induced stresses of core-shell nanotube electrodes in lithium-ion batteries. <i>Journal of Applied Physics</i> , 2013 , 113, 013507	2.5	25
26	THE EFFECTS OF ELASTIC STIFFENING ON THE EVOLUTION OF THE STRESS FIELD WITHIN A SPHERICAL ELECTRODE PARTICLE OF LITHIUM-ION BATTERIES. <i>International Journal of Applied Mechanics</i> , 2013 , 05, 1350040	2.4	25
25	Efficient Light Harvesting and Charge Collection of Dye-Sensitized Solar Cells with (001) Faceted Single Crystalline Anatase Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 19164-19172	3.8	34
24	Highly catalytic cross-stacked superaligned carbon nanotube sheets for iodine-free dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 22756		26
23	Thermal transport in crystalline Si/Ge nano-composites: Atomistic simulations and microscopic models. <i>Applied Physics Letters</i> , 2012 , 100, 091903	3.4	20
22	Facile solvothermal synthesis of single-crystalline anatase nanorods for efficient dye-sensitized solar cells. <i>Pure and Applied Chemistry</i> , 2012 , 85, 417-425	2.1	3
21	Photovoltaic Performance Optimization of Natural Trollius Sensitized Solar Cells. <i>Key Engineering Materials</i> , 2012 , 512-515, 1614-1618	0.4	
20	Diffusion-induced stresses of electrode nanomaterials in lithium-ion battery: The effects of surface stress. <i>Journal of Applied Physics</i> , 2012 , 112, 103507	2.5	63
19	High Electrocatalytic Activity of Vertically Aligned Single-Walled Carbon Nanotubes towards Sulfide Redox Shuttles. <i>Scientific Reports</i> , 2012 , 2, 368	4.9	81
18	Application of Electrochemical Impedance Spectroscopy in Organic Solar Cells with Vertically Aligned TiO2 Nanorod Arrays as Buffer Layer. <i>Key Engineering Materials</i> , 2012 , 512-515, 1598-1603	0.4	

LIST OF PUBLICATIONS

17	Mechanical and thermal transport properties of graphene with defects. <i>Applied Physics Letters</i> , 2011 , 99, 041901	3.4	288
16	Electrolyte-dependent photovoltaic responses in dye-sensitized solar cells. <i>Frontiers of Optoelectronics in China</i> , 2011 , 4, 45-52		1
15	Anionic structure-dependent photoelectrochemical responses of dye-sensitized solar cells based on a binary ionic liquid electrolyte. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 6416-22	3.6	25
14	Bifunctional single-crystalline rutile nanorod decorated heterostructural photoanodes for efficient dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 15918-24	3.6	21
13	Facile construction of high-electrocatalytic bilayer counter electrode for efficient dye-sensitized solar cells. <i>ACS Applied Materials & amp; Interfaces</i> , 2011 , 3, 3916-20	9.5	12
12	An alternative alkylpyridinium iodide with high electroactivity for efficient dye-sensitized solar cells. <i>Electrochemistry Communications</i> , 2011 , 13, 550-553	5.1	5
11	Membrane-based electrolyte sheets for facile fabrication of flexible dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2011 , 56, 6026-6032	6.7	7
10	Evidence for enhancing charge collection efficiency with an alternative cost-effective binary ionic liquids electrolyte based dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2011 , 56, 5605-5610	6.7	13
9	Balance between the physical diffusion and the exchange reaction on binary ionic liquid electrolyte for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2011 , 196, 1645-1650	8.9	23
8	HIGHLY CATALYTIC ACTIVE NANOSTRUCTURED Pt ELECTRODES FOR DYE-SENSITIZED SOLAR CELLS PREPARED BY LOW TEMPERATURE ELECTRODEPOSITION. <i>Functional Materials Letters</i> , 2011 , 04, 7-11	1.2	8
7	Size Effect of Elastic and Electromechanical Properties of BaTiO3 Films from First-Principles Method. <i>Integrated Ferroelectrics</i> , 2011 , 124, 79-86	0.8	3
6	Enhancement of photocurrent of dye-sensitized solar cell by composite liquid electrolyte including NiO nanosheets. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 7390-3	1.3	1
5	Influence of iodine concentration on the photoelectrochemical performance of dye-sensitized solar cells containing non-volatile electrolyte. <i>Electrochimica Acta</i> , 2010 , 55, 7225-7229	6.7	34
4	The Voltage Loss in Tin Halide Perovskite Solar Cells: Origins and Perspectives. <i>Advanced Functional Materials</i> ,2108832	15.6	6
3	Inhibiting octahedral tilting for stable CsPbI2Br solar cells. <i>Informa</i> li@Materily,	23.1	2
2	Recent Advances and Perspectives of Photostability for Halide Perovskite Solar Cells. <i>Advanced Optical Materials</i> ,2101822	8.1	5
1	Efficient defect passivation with niacin for high-performance and stable perovskite solar cells. Journal of Materials Chemistry C,	7.1	5