

Chen Han

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56
papers

6,120
citations

29
h-index

56
g-index

56
ext. papers

6,926
ext. citations

14.8
avg, IF

5.79
L-index

#	Paper	IF	Citations
56	Efficient and stable large-area perovskite solar cells with inorganic charge extraction layers. <i>Science</i> , 2015 , 350, 944-8	33.3	1732
55	High-efficiency dye-sensitized solar cell with a novel co-adsorbent. <i>Energy and Environmental Science</i> , 2012 , 5, 6057	35.4	617
54	A solvent- and vacuum-free route to large-area perovskite films for efficient solar modules. <i>Nature</i> , 2017 , 550, 92-95	50.4	510
53	Thermally Stable MAPbI Perovskite Solar Cells with Efficiency of 19.19% and Area over 1 cm achieved by Additive Engineering. <i>Advanced Materials</i> , 2017 , 29, 1701073	24	447
52	Diffusion engineering of ions and charge carriers for stable efficient perovskite solar cells. <i>Nature Communications</i> , 2017 , 8, 15330	17.4	290
51	Stabilizing heterostructures of soft perovskite semiconductors. <i>Science</i> , 2019 , 365, 687-691	33.3	281
50	Cost-Performance Analysis of Perovskite Solar Modules. <i>Advanced Science</i> , 2017 , 4, 1600269	13.6	238
49	Highly compact TiO ₂ layer for efficient hole-blocking in perovskite solar cells. <i>Applied Physics Express</i> , 2014 , 7, 052301	2.4	181
48	A quasi core-shell nitrogen-doped graphene/cobalt sulfide conductive catalyst for highly efficient dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2014 , 7, 2637-2641	35.4	177
47	Soft-cover deposition of scaling-up uniform perovskite thin films for high cost-performance solar cells. <i>Energy and Environmental Science</i> , 2016 , 9, 2295-2301	35.4	144
46	Effect of Cerium Doping in the TiO ₂ Photoanode on the Electron Transport of Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 19182-19190	3.8	114
45	High Electron Affinity Enables Fast Hole Extraction for Efficient Flexible Inverted Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 1903487	21.8	106
44	Efficient Perovskite Solar Cell Modules with High Stability Enabled by Iodide Diffusion Barriers. <i>Joule</i> , 2019 , 3, 2748-2760	27.8	105
43	Efficient and stable tin perovskite solar cells enabled by amorphous-polycrystalline structure. <i>Nature Communications</i> , 2020 , 11, 2678	17.4	90
42	Annealing-free perovskite films by instant crystallization for efficient solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8548-8553	13	87
41	Templated growth of FASnI ₃ crystals for efficient tin perovskite solar cells. <i>Energy and Environmental Science</i> , 2020 , 13, 2896-2902	35.4	82
40	Aggregation-free branch-type organic dye with a twisted molecular architecture for dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2012 , 5, 8548	35.4	72

39	Novel Near-Infrared Squaraine Sensitizers for Stable and Efficient Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2014 , 24, 3059-3066	15.6	68
38	Improvement of spectral response by co-sensitizers for high efficiency dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4812	13	68
37	High-Performance, Transparent, Dye-Sensitized Solar Cells for See-Through Photovoltaic Windows. <i>Advanced Energy Materials</i> , 2014 , 4, 1301966	21.8	66
36	Slot-die coating large-area formamidinium-cesium perovskite film for efficient and stable parallel solar module. <i>Science Advances</i> , 2021 , 7,	14.3	66
35	Low-Temperature Soft-Cover Deposition of Uniform Large-Scale Perovskite Films for High-Performance Solar Cells. <i>Advanced Materials</i> , 2017 , 29, 1701440	24	61
34	Reliable Measurement of Perovskite Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1803231	24	44
33	Ligand-Free, Highly Dispersed NiOx Nanocrystal for Efficient, Stable, Low-Temperature Processable Perovskite Solar Cells. <i>Solar Rrl</i> , 2018 , 2, 1800004	7.1	40
32	Fullerene-Structured MoSe2 Hollow Spheres Anchored on Highly Nitrogen-Doped Graphene as a Conductive Catalyst for Photovoltaic Applications. <i>Scientific Reports</i> , 2015 , 5, 13214	4.9	38
31	Efficient metal-free sensitizers bearing circle chain embracing spacers for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 10889	13	31
30	Coordinated shifts of interfacial energy levels: insight into electron injection in highly efficient dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2013 , 6, 3637	35.4	31
29	Tuning the electrical and optical properties of diketopyrrolopyrrole complexes for panchromatic dye-sensitized solar cells. <i>Chemistry - an Asian Journal</i> , 2012 , 7, 2895-903	4.5	31
28	Effects of 4-tert-butylpyridine on the quasi-Fermi levels of TiO2 films in the presence of different cations in dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 19310-3	3.6	29
27	A Scalable Integrated Dopant-Free Heterostructure to Stabilize Perovskite Solar Cell Modules. <i>Advanced Energy Materials</i> , 2021 , 11, 2003301	21.8	22
26	Unsteady analysis of adiabatic film cooling effectiveness for discrete hole with oscillating mainstream flow. <i>Physics of Fluids</i> , 2018 , 30, 127103	4.4	18
25	Electron-enriched thione enables strong Pb-S interaction for stabilizing high quality CsPbI perovskite films with low-temperature processing. <i>Chemical Science</i> , 2020 , 11, 3132-3140	9.4	17
24	Confinement Effect of Mesopores: In Situ Synthesis of Cationic Tungsten-Vacancies for a Highly Ordered Mesoporous Tungsten Phosphide Electrocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 22741-22750	9.5	17
23	Electrochemically instantaneous reduction of conducting polyaniline-coated latex particles dispersed in acidic solution. <i>Electrochimica Acta</i> , 2008 , 53, 7100-7106	6.7	17
22	A hybrid catalyst composed of reduced graphene oxide/Cu2S quantum dots as a transparent counter electrode for dye sensitized solar cells. <i>RSC Advances</i> , 2015 , 5, 9075-9078	3.7	16

21	Crystal-array-assisted growth of perovskite absorption layer for efficient and stable solar cell. <i>Energy and Environmental Science</i> ,	35.4	16
20	Energy band tunable $\text{Ti}_x\text{Sn}_{1-x}\text{O}_2$ photoanode for efficient non-TiO ₂ type dye sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 8453	13	14
19	Ellipsoidal TiO ₂ architectures with enhanced photovoltaic performance. <i>Chemistry - A European Journal</i> , 2012 , 18, 5269-74	4.8	14
18	Synergistic Coassembly of Highly Wettable and Uniform Hole-Extraction Monolayers for Scaling-up Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 1909509	15.6	13
17	Tin oxide microspheres with exposed {101} facets for dye-sensitized solar cells: enhanced photocurrent and photovoltage. <i>ChemSusChem</i> , 2014 , 7, 172-8	8.3	12
16	Key issues in highly efficient perovskite solar cells. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2015 , 64, 038404	0.6	12
15	Accurate and fast evaluation of perovskite solar cells with least hysteresis. <i>Applied Physics Express</i> , 2017 , 10, 076601	2.4	11
14	Low-Temperature Soft-Cover-Assisted Hydrolysis Deposition of Large-Scale TiO Layer for Efficient Perovskite Solar Modules. <i>Nano-Micro Letters</i> , 2018 , 10, 49	19.5	10
13	A New Factor Affecting the Performance of Dye-Sensitized Solar Cells in the Presence of 4-tert-Butylpyridine. <i>Applied Physics Express</i> , 2012 , 5, 042303	2.4	10
12	Enhanced photoelectrochemical performance of planar p-Silicon by APCVD deposition of surface mesoporous hematite coating. <i>Applied Catalysis B: Environmental</i> , 2017 , 200, 372-377	21.8	9
11	Effect of thermal-convection-induced defects on the performance of perovskite solar cells. <i>Applied Physics Express</i> , 2017 , 10, 075502	2.4	6
10	Voltammetric potentials of polyaniline varying with electric percolation. <i>Electrochimica Acta</i> , 2010 , 55, 6959-6963	6.7	6
9	Flow Structures and Unsteady Behaviors of Film Cooling from Discrete Holes Fed by Internal Crossflow. <i>Journal of Turbomachinery</i> , 2020 , 142,	1.8	6
8	Coating of Phosphide Catalysts on p-Silicon by a Necking Strategy for Improved Photoelectrochemical Characteristics in Alkaline Media. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 20185-20193	9.5	6
7	Surface Treatment for Effective Dye Adsorption on Nanocrystalline TiO_2 . <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 10NE16	1.4	5
6	Stable tin perovskite solar cells enabled by widening the time window for crystallization. <i>Science China Materials</i> , 2021 , 64, 1849-1857	7.1	5
5	Photovoltaic effect of TiO ₂ thick films with an ultrathin BiFeO ₃ as buffer layer. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 117, 1301-1306	2.6	4
4	Stable tin perovskite solar cells developed via additive engineering. <i>Science China Materials</i> , 2021 , 64, 2645-2654	7.1	4

- 3 Catalytic generation of chlorine with slight overpotential by micellar ferrocene. *Electrochemistry Communications*, **2007**, 9, 2304-2307 5.1 3
- 2 MODELS OF ELECTRON INJECTION, DIFFUSION AND RECOMBINATION IN DYE-SENSITIZED SOLAR CELLS. *International Journal of Modern Physics B*, **2012**, 26, 1230009 1.1 1
- 1 Surface Treatment for Effective Dye Adsorption on Nanocrystalline TiO₂. *Japanese Journal of Applied Physics*, **2012**, 51, 10NE16 1.4