

Chen Han

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4180429/chen-han-publications-by-year.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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
55	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
54	Stable tin perovskite solar cells developed via additive engineering. <i>Science China Materials</i> , 2021 , 64, 2645-2654	7.1	4
53	A Scalable Integrated Dopant-Free Heterostructure to Stabilize Perovskite Solar Cell Modules. <i>Advanced Energy Materials</i> , 2021 , 11, 2003301	21.8	22
52	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
51	Efficient and stable tin perovskite solar cells enabled by amorphous-polycrystalline structure. <i>Nature Communications</i> , 2020 , 11, 2678	17.4	90
50	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
49	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
48	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
47	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
46	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
45	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
44	Reliable Measurement of Perovskite Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1803231	24	44
43	Stabilizing heterostructures of soft perovskite semiconductors. <i>Science</i> , 2019 , 365, 687-691	33.3	281
42	Efficient Perovskite Solar Cell Modules with High Stability Enabled by Iodide Diffusion Barriers. <i>Joule</i> , 2019 , 3, 2748-2760	27.8	105
41	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
40	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

39	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
38	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
37	Effect of thermal-convection-induced defects on the performance of perovskite solar cells. <i>Applied Physics Express</i> , 2017 , 10, 075502	2.4	6
36	Accurate and fast evaluation of perovskite solar cells with least hysteresis. <i>Applied Physics Express</i> , 2017 , 10, 076601	2.4	11
35	Diffusion engineering of ions and charge carriers for stable efficient perovskite solar cells. <i>Nature Communications</i> , 2017 , 8, 15330	17.4	290
34	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
33	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
32	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
31	Cost-Performance Analysis of Perovskite Solar Modules. <i>Advanced Science</i> , 2017 , 4, 1600269	13.6	238
30	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
29	Annealing-free perovskite films by instant crystallization for efficient solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8548-8553	13	87
28	Efficient and stable large-area perovskite solar cells with inorganic charge extraction layers. <i>Science</i> , 2015 , 350, 944-8	33.3	1732
27	Fullerene-Structured MoSe ₂ 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
26	A hybrid catalyst composed of reduced graphene oxide/Cu ₂ S quantum dots as a transparent counter electrode for dye sensitized solar cells. <i>RSC Advances</i> , 2015 , 5, 9075-9078	3.7	16
25	Key issues in highly efficient perovskite solar cells. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2015 , 64, 038404	0.6	12
24	High-Performance, Transparent, Dye-Sensitized Solar Cells for See-Through Photovoltaic Windows. <i>Advanced Energy Materials</i> , 2014 , 4, 1301966	21.8	66
23	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
22	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

21	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
20	Highly compact TiO ₂ layer for efficient hole-blocking in perovskite solar cells. <i>Applied Physics Express</i> , 2014 , 7, 052301	2.4	181
19	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
18	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
17	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
16	Energy band tunable Ti _x Sn _{1-x} 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
15	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
14	MODELS OF ELECTRON INJECTION, DIFFUSION AND RECOMBINATION IN DYE-SENSITIZED SOLAR CELLS. <i>International Journal of Modern Physics B</i> , 2012 , 26, 1230009	1.1	1
13	High-efficiency dye-sensitized solar cell with a novel co-adsorbent. <i>Energy and Environmental Science</i> , 2012 , 5, 6057	35.4	617
12	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
11	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
10	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
9	Ellipsoidal TiO ₂ hierarchitectures with enhanced photovoltaic performance. <i>Chemistry - A European Journal</i> , 2012 , 18, 5269-74	4.8	14
8	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
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	Surface Treatment for Effective Dye Adsorption on Nanocrystalline TiO ₂ . <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 10NE16	1.4	
5	Effects of 4-tert-butylpyridine on the quasi-Fermi levels of TiO ₂ 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
4	Voltammetric potentials of polyaniline varying with electric percolation. <i>Electrochimica Acta</i> , 2010 , 55, 6959-6963	6.7	6

3	Electrochemically instantaneous reduction of conducting polyaniline-coated latex particles dispersed in acidic solution. <i>Electrochimica Acta</i> , 2008 , 53, 7100-7106	6.7	17
2	Catalytic generation of chlorine with slight overpotential by micellar ferrocene. <i>Electrochemistry Communications</i> , 2007 , 9, 2304-2307	5.1	3
1	Crystal-array-assisted growth of perovskite absorption layer for efficient and stable solar cell. <i>Energy and Environmental Science</i> ,	35.4	16