

Shen Hui

List of Publications by Year in descending order

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73
papers

1,453
citations

361413

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73
docs citations

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times ranked

2272
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-temperature Growth of Hard Carbon with Graphite Crystal for Sodium-ion Storage with High Initial Coulombic Efficiency: A General Method. <i>Advanced Energy Materials</i> , 2019, 9, 1803648.	19.5	132
2	Mass production of industrial tunnel oxide passivated contacts (iTOPCon) silicon solar cells with average efficiency over 23% and modules over 345W. <i>Progress in Photovoltaics: Research and Applications</i> , 2019, 27, 827-834.	8.1	131
3	Fully Solution-Processed TCO-Free Semitransparent Perovskite Solar Cells for Tandem and Flexible Applications. <i>Advanced Energy Materials</i> , 2018, 8, 1701569.	19.5	77
4	Synthesis of long TiO ₂ nanowire arrays with high surface areas via synergistic assembly route for highly efficient dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 17531.	6.7	74
5	Dopant-free back contact silicon heterojunction solar cells employing transition metal oxide emitters. <i>Physica Status Solidi - Rapid Research Letters</i> , 2016, 10, 662-667.	2.4	62
6	Growth of vertically aligned MoS ₂ nanosheets on a Ti substrate through a self-supported bonding interface for high-performance lithium-ion batteries: a general approach. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5932-5941.	10.3	51
7	Hydrothermal growth of large-scale macroporous TiO ₂ nanowires and its application in 3D dye-sensitized solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 97, 25-29.	2.3	48
8	Dopant-free multilayer back contact silicon solar cells employing V ₂ O _x /metal/V ₂ O _x as an emitter. <i>RSC Advances</i> , 2017, 7, 23851-23858.	3.6	48
9	Constructing hierarchical submicrotubes from interconnected TiO ₂ nanocrystals for high reversible capacity and long-life lithium-ion batteries. <i>Scientific Reports</i> , 2015, 4, 4479.	3.3	41
10	One-step ammonia hydrothermal synthesis of single crystal anatase TiO ₂ nanowires for highly efficient dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2110-2117.	10.3	39
11	Hierarchical rutile TiO ₂ mesocrystals assembled by nanocrystals-oriented attachment mechanism. <i>CrystEngComm</i> , 2012, 14, 2278.	2.6	35
12	Chromium Trioxide Hole-Selective Heterocontacts for Silicon Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13645-13651.	8.0	35
13	Hydrophilic Magnetochromatic Nanoparticles with Controllable Sizes and Super-high Magnetization for Visualization of Magnetic Field Intensity. <i>Scientific Reports</i> , 2015, 5, 17063.	3.3	29
14	12.29% Low Temperature-Processed Dopant-Free CdS/p-Si Heterojunction Solar Cells. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900367.	3.7	29
15	CdS/CdSe cosensitized oriented single-crystalline TiO ₂ nanowire array for solar cell application. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	27
16	Dopant-Free Back-Contacted Silicon Solar Cells with an Efficiency of 22.1%. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 1900688.	2.4	27
17	Investigating the Impact of Shading Effect on the Characteristics of a Large-Scale Grid-Connected PV Power Plant in Northwest China. <i>International Journal of Photoenergy</i> , 2014, 2014, 1-9.	2.5	25
18	Efficiency enhancement of bifacial PERC solar cells with laser-doped selective emitter and double-screen-printed Al grid. <i>Progress in Photovoltaics: Research and Applications</i> , 2018, 26, 752-760.	8.1	24

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19	Analysis of industrial c-Si solar cell's front metallization by advanced numerical simulation. Progress in Photovoltaics: Research and Applications, 2012, 20, 490-500.	8.1	21
20	Study of crystalline silicon solar cells with integrated bypass diodes. Science China Technological Sciences, 2012, 55, 594-599.	4.0	20
21	Confined-space synthesis of single crystal TiO ₂ nanowires in atmospheric vessel at low temperature: a generalized approach. Scientific Reports, 2015, 5, 8129.	3.3	20
22	>20.5% Diamond Wire Sawn Multicrystalline Silicon Solar Cells With Maskless Inverted Pyramid Like Texturing. IEEE Journal of Photovoltaics, 2017, 7, 1264-1269.	2.5	20
23	22% efficient dopant-free interdigitated back contact silicon solar cells. AIP Conference Proceedings, 2018, , .	0.4	20
24	Shunt removal and patching for crystalline silicon solar cells using infrared imaging and laser cutting. Progress in Photovoltaics: Research and Applications, 2010, 18, 54-60.	8.1	19
25	Conductive Cuprous Iodide Hole-Selective Contacts with Thermal and Ambient Stability for Silicon Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 43699-43706.	8.0	19
26	Reconstructing ZnO quantum dot assembled tubular structures from nanotubes within graphene matrix via ongoing pulverization towards high-performance lithium storage. Journal of Materials Chemistry A, 2016, 4, 19123-19131.	10.3	18
27	Degradation Mechanism and Stability Improvement of Dopant-Free ZnO/LiF _x /Al Electron Nanocontacts in Silicon Heterojunction Solar Cells. ACS Applied Nano Materials, 2020, 3, 11391-11398.	5.0	18
28	Controlled synthesis of series Ni _x Co _{3-x} O ₄ products: Morphological evolution towards quasi-single-crystal structure for high-performance and stable lithium-ion batteries. Scientific Reports, 2015, 5, 11584.	3.3	16
29	One-step synthesis of Nb-doped TiO ₂ rod@Nb ₂ O ₅ nanosheet core-shell heterostructures for stable high-performance lithium-ion batteries. RSC Advances, 2016, 6, 27094-27101.	3.6	16
30	Surface modification of micro-sized CuO by in situ-growing heterojunctions CuO/Cu ₂ O and CuO/Cu ₂ O/Cu: effect on surface charges and photogenerated carrier lifetime. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	16
31	Frontside illuminated TiO ₂ nanotube dye-sensitized solar cells using multifunctional microchannel array electrodes. Applied Physics Letters, 2009, 95, .	3.3	15
32	Influence of Oxygen on Sputtered Titanium-Doped Indium Oxide Thin Films and Their Application in Silicon Heterojunction Solar Cells. Solar Rrl, 2021, 5, 2000501.	5.8	15
33	Magnetic fluids'™ stability improved by oleic acid bilayer-coated™ structure via one-pot synthesis. Chemical Papers, 2016, 70, .	2.2	14
34	Yttrium Fluoride-Based Electron-Selective Contacts for Crystalline Silicon Solar Cells. ACS Applied Energy Materials, 2021, 4, 2158-2164.	5.1	14
35	Flexible TiO ₂ nanotube-based dye-sensitized solar cells using laser-drilled microhole array electrodes. Applied Physics A: Materials Science and Processing, 2011, 102, 127-130.	2.3	13
36	Preparation of self-assembled Ag nanoparticles for effective light-trapping in crystalline silicon solar cells. RSC Advances, 2014, 4, 13757.	3.6	13

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37	Efficient silicon solar cells applying cuprous sulfide as hole-selective contact. Journal of Materials Science, 2019, 54, 12650-12658.	3.7	13
38	Preparation and optimization of a molybdenum electrode for CIGS solar cells. AIP Advances, 2016, 6, .	1.3	11
39	Silicon based solar cells using a multilayer oxide as emitter. AIP Advances, 2016, 6, 085304.	1.3	11
40	Dopant-Free Bifacial Silicon Solar Cells. Solar Rrl, 2021, 5, 2000771.	5.8	11
41	High-Performance Europium Fluoride Electron-Selective Contacts for Efficient Crystalline Silicon Solar Cells. Solar Rrl, 2021, 5, 2100057.	5.8	11
42	Cerous Fluoride Dopant-Free Electron-Selective Contact for Crystalline Silicon Solar Cells. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100135.	2.4	11
43	A new improved structure of dye-sensitized solar cells with reflection film. Science Bulletin, 2006, 51, 369-373.	1.7	10
44	The use of Ti meshes with self-organized TiO_2 nanotubes as photoanodes of all-Ti dye-sensitized solar cells. Progress in Photovoltaics: Research and Applications, 2010, 18, 285-290.	8.1	10
45	In situ controlled synthesis of various TiO_2 nanostructured materials via a facile hydrothermal route. Journal of Nanoparticle Research, 2011, 13, 1855-1863.	1.9	10
46	Effects of high temperature annealing on the dislocation density and electrical properties of upgraded metallurgical grade multicrystalline silicon. Science Bulletin, 2011, 56, 695-699.	1.7	9
47	Synergistic assembly of nanoparticle aggregates and texture nanosheets into hierarchical TiO_2 core-shell structures for enhanced light harvesting in dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 6175.	10.3	9
48	High-Performance and Stable Dopant-Free Silicon Solar Cells with Magnesium Acetylacetonate Electron-Selective Contacts. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000103.	2.4	9
49	Gadolinium Fluoride as a High-Thickness-Tolerant Electron-Selective Contact Material for Solar Cells. ACS Applied Energy Materials, 2022, 5, 4351-4357.	5.1	8
50	A novel solar cell fabricated with spiral photo-electrode for capturing sunlight 3-dimensionally. Science in China Series D: Earth Sciences, 2006, 49, 663-673.	0.9	7
51	Al-alloyed local contacts for industrial PERC cells by local printing. , 2014, , .		7
52	Enhanced Hole Extraction of $\text{WO}_x/\text{V}_2\text{O}_x$ Dopant-Free Contact for p-type Silicon Solar Cell. Advanced Materials Interfaces, 2022, 9, .	3.7	7
53	Surface chemistry of nanoscale Fe_3O_4 dispersed in magnetic fluids. Science in China Series B: Chemistry, 2007, 50, 754-758.	0.8	6
54	Preparation of two kinds of superparamagnetic carriers-supported cis-platinum complexes and the comparison of their characteristics. Science Bulletin, 2006, 51, 151-157.	1.7	5

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55	Novel photoelectrochromic cells fabricated with wirelike photo-electrode. Science Bulletin, 2008, 53, 3173-3177.	9.0	5
56	Fabrication of three-dimensional ZnO with hierarchical structure via an electrodeposition process. Applied Physics A: Materials Science and Processing, 2011, 103, 463-466.	2.3	5
57	Study on the improved structure of dye-sensitized solar cells for enhancing light absorption. Frontiers of Materials Science in China, 2007, 1, 293-296.	0.5	4
58	ZnO microsheet modified TiO ₂ nanoparticle composite films for dye-sensitized solar cells. Science Bulletin, 2010, 55, 1945-1948.	1.7	4
59	Specific contact resistance measurements on C-Si solar cells by novel TLM method. , 2012, , .		4
60	Investigation of shunt solar cells's TM currents based on equivalent circuit model. Science China Technological Sciences, 2016, 59, 1391-1398.	4.0	4
61	Determination of the specific shunt resistances under and away from the front contacts of solar cell. Science in China Series D: Earth Sciences, 2009, 52, 3082-3084.	0.9	3
62	Study on the SiN _x /Al rear reflectance performance of crystalline silicon solar cells. Science China Technological Sciences, 2010, 53, 3209-3213.	4.0	3
63	Growth behavior of polycrystalline silicon thin films deposited by RTCVD on quartz substrates. Science Bulletin, 2010, 55, 2057-2062.	1.7	2
64	Layer-by-Layer CdS-ModifiedTiO ₂ Film Electrodes for Enhancing the Absorption and Energy Conversion Efficiency of Solar Cells. International Journal of Photoenergy, 2012, 2012, 1-5.	2.5	2
65	Structure simulation of screen printed local back surface field for rear passivated silicon solar cells. , 2012, , .		2
66	Growth of a Large-Area, Free-Standing, Highly Conductive and Fully Foldable Silver Film with Inverted Pyramids for Wearable Electronics Applications. ACS Applied Materials & Interfaces, 2017, 9, 5312-5318.	8.0	2
67	Development of Conductive SiC _x :H as a New Hydrogenation Technique for Tunnel Oxide Passivating Contacts. ACS Applied Materials & Interfaces, 2020, 12, 29986-29992.	8.0	2
68	Effects of magnetic fluids on crystallization characterizations in a multi-component and multiphase system. Science in China Series B: Chemistry, 2008, 51, 347-353.	0.8	1
69	Observation on Defects in Poly-Si Films Prepared by RTCVD Under Nonideal Conditions. Journal of Electronic Materials, 2010, 39, 732-737.	2.2	1
70	Study of large area hydrogenated microcrystalline silicon p-layers for back surface field in crystalline silicon solar cells. Science China Technological Sciences, 2011, 54, 63-69.	4.0	1
71	Thermal Field Analysis and Simulation of an Infrared Belt Furnace Used for Solar Cells. International Journal of Photoenergy, 2014, 2014, 1-7.	2.5	1
72	Chromium Trioxide Hole-Selective Heterocontacts for Silicon Solar Cells. , 2018, , .		1

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73	Progress in Photovoltaic Devices and Systems. International Journal of Photoenergy, 2015, 2015, 1-3.	2.5	0