

Jianhui Chen Chen

List of Publications by Year in descending order

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34
papers

612
citations

687363
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all docs

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docs citations

36
times ranked

825
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-thin MoO _x as cathode buffer layer for the improvement of all-inorganic CsPbI ₂ Br ₂ perovskite solar cells. <i>Nano Energy</i> , 2017, 41, 75-83.	16.0	190
2	Carbon Nanotubes for Photovoltaics: From Lab to Industry. <i>Advanced Energy Materials</i> , 2021, 11, 2002880.	19.5	59
3	Front and Back Junction Carbon Nanotube-Silicon Solar Cells with an Industrial Architecture. <i>Advanced Functional Materials</i> , 2020, 30, 2000484.	14.9	33
4	Electrochemical grafting passivation of silicon via electron transfer at polymer/silicon hybrid interface. <i>Electrochimica Acta</i> , 2017, 247, 826-834.	5.2	29
5	A Polymer/Carbon Nanotube Ink as a Boron-Dopant/Inorganic Passivation Free Carrier Selective Contact for Silicon Solar Cells with over 21% Efficiency. <i>Advanced Functional Materials</i> , 2020, 30, 2004476.	14.9	29
6	Silicon surface passivation by polystyrenesulfonate thin films. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	28
7	Conductive Hole-Selective Passivating Contacts for Crystalline Silicon Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 1903851.	19.5	28
8	Magnesium thin film as a doping-free back surface field layer for hybrid solar cells. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	27
9	ZnS thin film functionalized as back surface field in Si solar cells. <i>Materials Science in Semiconductor Processing</i> , 2018, 74, 309-312.	4.0	27
10	Vacuum-Free, Room-Temperature Organic Passivation of Silicon: Toward Very Low Recombination of Micro-/Nanotextured Surface Structures. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 44890-44896.	8.0	23
11	Zn(O,S)-based electron-selective contacts with tunable band structure for silicon heterojunction solar cells. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4449-4458.	5.5	16
12	Establishment of a novel functional group passivation system for the surface engineering of c-Si solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2019, 195, 99-105.	6.2	16
13	The Reverse Lateral Photovoltaic Effect in Boron-Diffused Si p-n Junction Structure. <i>IEEE Electron Device Letters</i> , 2016, 37, 201-204.	3.9	14
14	On the light-induced enhancement in photovoltaic performance of PEDOT:PSS/Si organic-inorganic hybrid solar cells. <i>Applied Physics Letters</i> , 2017, 111, 183904.	3.3	13
15	Polymer/Si Heterojunction Hybrid Solar Cells with Rubrene:DMSO Organic Semiconductor Film as an Electron-Selective Contact. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23371-23376.	3.1	13
16	Stable Organic Passivated Carbon Nanotube-Silicon Solar Cells with an Efficiency of 22%. <i>Advanced Science</i> , 2021, 8, e2102027.	11.2	12
17	Polymer Thin Films for Anti-Reflection and Passivation on the Front Surface of Interdigitated Back Contact c-Si Solar Cell. <i>Solar Rrl</i> , 2017, 1, 1700079.	5.8	9
18	Low work function intermetallic thin film as a back surface field material for hybrid solar cells. <i>Solar Energy</i> , 2018, 162, 397-402.	6.1	8

#	ARTICLE	IF	CITATIONS
19	Achievement of two logical states through a polymer/silicon interface for organic-inorganic hybrid memory. <i>Applied Physics Letters</i> , 2017, 111, 191601.	3.3	6
20	Hafnium Thin Film as a Rear Metallization Scheme for Polymer/Silicon Hybrid Solar Cells. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1800089.	2.4	6
21	Single-Side Heterojunction Solar Cell with Microcrystalline Silicon Oxide Emitter and Diffused Back Surface Field. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1700193.	1.8	5
22	Improving the Passivation Stability of a Polymer Thin Film on Si by the Introduction of MoO_3 Nanoparticles Into the Polymer Matrix. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017, 11, 1700206.	2.4	4
23	Ferroelectric-like organic-inorganic interfaces. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15677-15684.	5.5	4
24	Carbon Nanotubes: Carbon Nanotubes for Photovoltaics: From Lab to Industry (<i>Adv. Energy Mater.</i>) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 5	19.5	4
25	Solution processable in situ passivated silicon nanowires. <i>Nanoscale</i> , 2021, 13, 11439-11445.	5.6	3
26	Considerably Improved Photovoltaic Performances of ITO/Si Heterojunction Solar Cells by Incorporating Hydrogen Into Near-Interface Region. <i>IEEE Journal of Photovoltaics</i> , 2022, 12, 1102-1108.	2.5	2
27	Improving the Passivation Stability of a Polymer Thin Film on Si by the Introduction of MoO_3 Nanoparticles Into the Polymer Matrix (Phys. Status Solidi RRL 9/2017). <i>Physica Status Solidi - Rapid Research Letters</i> , 2017, 11, 1770347.	2.4	1
28	Polymer Thin Films for Anti-Reflection and Passivation on the Front Surface of Interdigitated Back Contact c-Si Solar Cell (Solar RRL 7/2017). <i>Solar Rrl</i> , 2017, 1, 1770125.	5.8	1
29	V_{oc} transient in silicon heterojunction solar cells with $\text{Å}\mu\text{c-SiOx:H}$ window layers. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 305501.	2.8	1
30	First-principles study of polymer-passivated silicon nanowire outer-shell defects. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 11169-11174.	2.8	1
31	Control of epitaxial growth at a-Si:H/c-Si heterointerface by the working pressure in PECVD. <i>Chinese Physics B</i> , 2016, 25, 118801.	1.4	0
32	Influence of metals for rear metallization on c-Si solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 20312-20318.	2.2	0
33	Electron-Selective Epitaxial/Amorphous Germanium Stack Contact for Organic-Crystalline Silicon Hybrid Solar Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 4899-4905.	5.1	0
34	Self-formed point-contact PERC solar cells. <i>Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica</i> , 2017, 47, 965-971.	0.5	0