

# Jianhui Chen Chen

## List of Publications by Citations

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31  
papers

417  
citations

11  
h-index

20  
g-index

36  
ext. papers

525  
ext. citations

7.2  
avg, IF

3.72  
L-index

#	Paper	IF	Citations
31	Ultra-thin MoO <sub>x</sub> as cathode buffer layer for the improvement of all-inorganic CsPbIBr <sub>2</sub> perovskite solar cells. <i>Nano Energy</i> , <b>2017</b> , 41, 75-83	17.1	153
30	Magnesium thin film as a doping-free back surface field layer for hybrid solar cells. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 133504	3.4	24
29	Silicon surface passivation by polystyrenesulfonate thin films. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 083904	3.4	23
28	Electrochemical grafting passivation of silicon via electron transfer at polymer/silicon hybrid interface. <i>Electrochimica Acta</i> , <b>2017</b> , 247, 826-834	6.7	23
27	Carbon Nanotubes for Photovoltaics: From Lab to Industry. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2002880	11.8	22
26	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> , <b>2020</b> , 30, 2004476	15.6	20
25	ZnS thin film functionalized as back surface field in Si solar cells. <i>Materials Science in Semiconductor Processing</i> , <b>2018</b> , 74, 309-312	4.3	17
24	Vacuum-Free, Room-Temperature Organic Passivation of Silicon: Toward Very Low Recombination of Micro-/Nanotextured Surface Structures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 44890-44896	8.5	17
23	Front and Back-Junction Carbon Nanotube-Silicon Solar Cells with an Industrial Architecture. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2000484	15.6	16
22	Conductive Hole-Selective Passivating Contacts for Crystalline Silicon Solar Cells. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903851	21.8	15
21	The Reverse Lateral Photovoltaic Effect in Boron-Diffused Si p-n Junction Structure. <i>IEEE Electron Device Letters</i> , <b>2016</b> , 37, 201-204	4.4	14
20	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> , <b>2019</b> , 195, 99-105	6.4	11
19	On the light-induced enhancement in photovoltaic performance of PEDOT:PSS/Si organic-inorganic hybrid solar cells. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 183904	3.4	9
18	Polymer/Si Heterojunction Hybrid Solar Cells with Rubrene:DMSO Organic Semiconductor Film as an Electron-Selective Contact. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 23371-23376	3.8	7
17	Zn(O,S)-based electron-selective contacts with tunable band structure for silicon heterojunction solar cells. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 4449-4458	7.1	6
16	Hafnium Thin Film as a Rear Metallization Scheme for Polymer/Silicon Hybrid Solar Cells. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2018</b> , 12, 1800089	2.5	6
15	Polymer Thin Films for Anti-Reflection and Passivation on the Front Surface of Interdigitated Back Contact c-Si Solar Cell. <i>Solar Rrl</i> , <b>2017</b> , 1, 1700079	7.1	6

14	Low work function intermetallic thin film as a back surface field material for hybrid solar cells. <i>Solar Energy</i> , <b>2018</b> , 162, 397-402	6.8	5
13	Achievement of two logical states through a polymer/silicon interface for organic-inorganic hybrid memory. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 191601	3.4	5
12	Stable Organic Passivated Carbon Nanotube-Silicon Solar Cells with an Efficiency of 22. <i>Advanced Science</i> , <b>2021</b> , 8, e2102027	13.6	5
11	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> , <b>2017</b> , 214, 1700193	1.6	3
10	Improving the Passivation Stability of a Polymer Thin Film on Si by the Introduction of MoO <sub>3</sub> Nanoparticles Into the Polymer Matrix. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2017</b> , 11, 1700206	2.5	3
9	Ferroelectric-like organic/inorganic interfaces. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 15677-15684	7.1	3
8	Solution processable passivated silicon nanowires. <i>Nanoscale</i> , <b>2021</b> , 13, 11439-11445	7.7	2
7	V <sub>oc</sub> transient in silicon heterojunction solar cells with $\mu$ c-SiO <sub>x</sub> :H window layers. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 305501	3	1
6	Carbon Nanotubes: Carbon Nanotubes for Photovoltaics: From Lab to Industry (Adv. Energy Mater. 3/2021). <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2170014	21.8	1
5	Improving the Passivation Stability of a Polymer Thin Film on Si by the Introduction of MoO <sub>3</sub> Nanoparticles Into the Polymer Matrix (Phys. Status Solidi RRL 9/2017). <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2017</b> , 11, 1770347	2.5	
4	Electron-Selective Epitaxial/Amorphous Germanium Stack Contact for Organic-Crystalline Silicon Hybrid Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 4899-4905	6.1	
3	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> , <b>2017</b> , 1, 1770125	7.1	
2	Control of epitaxial growth at a-Si:H/c-Si heterointerface by the working pressure in PECVD. <i>Chinese Physics B</i> , <b>2016</b> , 25, 118801	1.2	
1	Influence of metals for rear metallization on c-Si solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 20312-20318	2.1	