Lei Zhao

List of Publications by Year
in descending order

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29	260	933447 10	996975 15
papers	citations	h-index	g-index

30	30	30	232
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Back EVA recycling from c-Si photovoltaic module without damaging solar cell via laser irradiation followed by mechanical peeling. Waste Management, 2022, 137, 312-318.	7.4	28
2	Hydrogenated amorphous silicon germanium alloy with enhanced photosensitivity prepared by plasma enhanced chemical vapor deposition at high temperature. Vacuum, 2013, 89, 43-46.	3.5	24
3	Comparative study of the surface passivation on crystalline silicon by silicon thin films with different structures. Physica B: Condensed Matter, 2010, 405, 61-64.	2.7	23
4	Choice of the low-temperature sintering Ag paste for a-Si:H/c-Si heterojunction solar cell based on characterizing the electrical performance. Journal of Alloys and Compounds, 2015, 618, 357-365.	5.5	21
5	Low-temperature sintering properties of the screen-printed silver paste for a-Si:H/c-Si heterojunction solar cells. Journal of Materials Science: Materials in Electronics, 2014, 25, 2657-2664.	2.2	18
6	Application of Indium Tin Oxide/Aluminum-Doped Zinc Oxide Transparent Conductive Oxide Stack Films in Silicon Heterojunction Solar Cells. ACS Applied Energy Materials, 2021, 4, 13586-13592.	5.1	17
7	Nano-composite microstructure model for the classification of hydrogenated nanocrystalline silicon oxide thin films. Surface and Coatings Technology, 2016, 295, 119-124.	4.8	16
8	Investigation of In2O3:SnO2 films with different doping ratio and application as transparent conducting electrode in silicon heterojunction solar cell. Solar Energy Materials and Solar Cells, 2022, 234, 111404.	6.2	15
9	Rheological properties and related screen-printing performance of low-temperature silver pastes for a-Si:H/c-Si heterojunction solar cells. Journal of Materials Science: Materials in Electronics, 2014, 25, 5322-5330.	2.2	12
10	Wearable Multiparameter Platform Based on AlGaN/GaN Highâ€electronâ€mobility Transistors for Realâ€time Monitoring of pH and Potassium Ions in Sweat. Electroanalysis, 2020, 32, 422-428.	2.9	12
11	Study and development of rearâ€emitter Si heterojunction solar cells and application of direct copper metallization. Progress in Photovoltaics: Research and Applications, 2018, 26, 385-396.	8.1	11
12	Physical criteria for the interface passivation layer in hydrogenated amorphous/crystalline silicon heterojunction solar cell. Journal Physics D: Applied Physics, 2018, 51, 045501.	2.8	10
13	Plasma enhanced chemical vapor deposition of excellent a-Si:H passivation layers for a-Si:H/c-Si heterojunction solar cells at high pressure and high power. Frontiers in Energy, 2017, 11, 85-91.	2.3	9
14	Effect of residual water vapor on the performance of indium tin oxide film and silicon heterojunction solar cell. Solar Energy, 2020, 204, 720-725.	6.1	9
15	Comparative study on IWO and ICO transparent conductive oxide films prepared by reactive plasma deposition for copper electroplated silicon heterojunction solar cell. Journal of Materials Science: Materials in Electronics, 2022, 33, 5000-5008.	2.2	7
16	Highâ€performance aâ€SiGe:H thin film prepared by plasmaâ€enhanced chemical vapor deposition with high plasma power for solarâ€cell application. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 2527-2531.	1.8	6
17	In situ optical emission spectroscopy diagnostics of glow discharges in SiH₄/GeH₄/H₂. RSC Advances, 2015, 5, 18029-18034.	3.6	6
18	Preparation of Large-Aperture Macroporous Silicon with Controllable Pore Tip Angle on Low-Resistivity p-Type c-Si Substrate by Metal-Catalyzed Electrochemical Etching. ECS Journal of Solid State Science and Technology, 2013, 2, Q65-Q68.	1.8	5

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19	Synergistic effect of CO2 and PH3 on the properties of n-type nanocrystalline silicon oxide prepared by plasma-enhanced chemical vapor deposition. Journal of Materials Science: Materials in Electronics, 2021, 32, 2814-2821.	2.2	5
20	Theoretical investigation on the passivation layer with linearly graded bandgap for the amorphous/crystalline silicon heterojunction solar cell. Physica Status Solidi - Rapid Research Letters, 2016, 10, 730-734.	2.4	2
21	The effect of saw mark on the over-ghosting for acidic textured multicrystalline wafers with silicon nitride anti-reflectance films. , 2011, , .		1
22	3-D Solar Cells Based on Radial Silicon Heterojunctions Exploiting Microhole Lattices. IEEE Photonics Technology Letters, 2013, 25, 1908-1911.	2.5	1
23	Hydrogen-rich c-Si interfacial modification to obtain efficient passivation for silicon heterojunction solar cell. Journal of Materials Science: Materials in Electronics, 2020, 31, 14608-14613.	2.2	1
24	Calculated and experimental research of sheet resistances of crystalline silicon solar cells by dry laser doping. , 2011, , .		0
25	Influence of band gap grading of intrinsic layer and annealing post on the optical and electrical performance of amorphous silicon germanium thin film solar cells. , 2014, , .		0
26	Improving surface passivation capability of silicon heterojunction solar cells with amorphous silicon by optical emission spectrometry. , 2015, , .		0
27	Facile Optimization Method for the Passivation Layer Preparation in Silicon Heterojunction Solar Cell by Monitoring Its Growth Rate. , 2019, , .		0
28	Preparation of High-performance Single-junction Hydrogenated Amorphous Silicon Germanium Solar Cells. , 2013, , .		0
29	Silver recovery from amorphous/crystalline silicon heterojunction solar cell by alkaline chemical immersion and pyrolysis. Physica Status Solidi (A) Applications and Materials Science, 0, , .	1.8	0