

Z P Ling

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

410
citations

933264

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h-index

1058333

14
g-index

22
all docs

22
docs citations

22
times ranked

773
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-scale two-dimensional MoS ₂ photodetectors by magnetron sputtering. Optics Express, 2015, 23, 13580.	1.7	93
2	Optimisation of Intrinsic a-Si:H Passivation Layers in Crystalline-amorphous Silicon Heterojunction Solar Cells. Energy Procedia, 2012, 15, 107-117.	1.8	60
3	Ultra-thin atomic layer deposited aluminium oxide tunnel layer passivated hole-selective contacts for silicon solar cells. Solar Energy Materials and Solar Cells, 2019, 191, 164-174.	3.0	39
4	Black Phosphorus Transistors with Near Band Edge Contact Schottky Barrier. Scientific Reports, 2016, 5, 18000.	1.6	37
5	Analysis of intrinsic hydrogenated amorphous silicon passivation layer growth for use in heterojunction silicon wafer solar cells by optical emission spectroscopy. Journal of Applied Physics, 2013, 113, .	1.1	34
6	Understanding Surface Treatment and ALD AlO _x Thickness Induced Surface Passivation Quality of c-Si Cz Wafers. IEEE Journal of Photovoltaics, 2017, 7, 1224-1235.	1.5	30
7	Interface Engineering for the Enhancement of Carrier Transport in Black Phosphorus Transistor with Ultra-Thin High-k Gate Dielectric. Scientific Reports, 2016, 6, 26609.	1.6	26
8	Optimisation of p-doped $\frac{1}{4}$ c-Si:H Emitter Layers in Crystalline-amorphous Silicon Heterojunction Solar Cells. Energy Procedia, 2012, 15, 118-128.	1.8	17
9	Status review and future perspectives on mitigating light-induced degradation on silicon-based solar cells. Renewable and Sustainable Energy Reviews, 2022, 159, 112223.	8.2	13
10	Thermal effects on the Raman phonon of few-layer phosphorene. APL Materials, 2015, 3, .	2.2	10
11	Detailed Micro Raman Spectroscopy Analysis of Doped Silicon Thin Film Layers and Its Feasibility for Heterojunction Silicon Wafer Solar Cells. Journal of Materials Science and Chemical Engineering, 2013, 01, 1-14.	0.2	9
12	Three-dimensional numerical analysis of hybrid heterojunction silicon wafer solar cells with heterojunction rear point contacts. AIP Advances, 2015, 5, .	0.6	9
13	Development of a Conductive Distributed Bragg Reflector for Heterojunction Solar Cells Using N^+ -Doped Microcrystalline Silicon and Aluminum-Doped Zinc Oxide Films. IEEE Journal of Photovoltaics, 2014, 4, 1320-1325.	1.5	7
14	Black phosphorus transistors with enhanced hole transport and subthreshold swing using ultra-thin HfO ₂ high-k gate dielectric. , 2016, , .		7
15	Double-Sided Passivated Contacts for Solar Cell Applications: An Industrially Viable Approach Toward 24% Efficient Large Area Silicon Solar Cells. , 0, , .		7
16	Excellent passivation of thin silicon wafers by HF-free hydrogen plasma etching using an industrial ICPECVD tool. Physica Status Solidi - Rapid Research Letters, 2015, 9, 47-52.	1.2	6
17	Inductively coupled plasma deposited amorphous silicon alloys using industrial equipment for heterojunction silicon solar cells. , 2014, , .		2
18	Next generation field-effect transistors based on 2D black phosphorus crystal. , 2015, , .		2

#	ARTICLE	IF	CITATIONS
19	Nickel-phosphide contact for effective Schottky barrier modulation in black phosphorus p-channel transistors. , 2016, , .		2
20	Micro Raman Spectroscopy Analysis of Doped Amorphous and Microcrystalline Silicon Thin Film Layers and its Application in Heterojunction Silicon Wafer Solar Cells. Transactions of the Materials Research Society of Japan, 2014, 39, 11-18.	0.2	0
21	Prospect of large scale 2D transition metal dichalcogenides nanophotonics for optical communications. , 2015, , .		0
22	Ultra-Sensitive 2D Photodetectors Based on Large-Scale Molybdenum Disulfide Crystals. , 2015, , .		0