Bishal Kafle

List of Publications by Year in descending order

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Version: 2024-02-01

16 papers	261 citations	1040056 9 h-index	996975 15 g-index
16 all docs	16 docs citations	16 times ranked	262 citing authors

#	Article	IF	Citations
1	TOPCon â€“ Technology options for cost efficient industrial manufacturing. Solar Energy Materials and Solar Cells, 2021, 227, 111100.	6.2	62
2	On the emitter formation in nanotextured silicon solar cells to achieve improved electrical performances. Solar Energy Materials and Solar Cells, 2016, 152, 94-102.	6.2	32
3	High-temperature degradation in plasma-enhanced chemical vapor deposition Al2O3 surface passivation layers on crystalline silicon. Journal of Applied Physics, 2014, 116, .	2.5	30
4	Efficient silicon nitride SiN_x:H antireflective and passivation layers deposited by atmospheric pressure PECVD for silicon solar cells. Progress in Photovoltaics: Research and Applications, 2019, 27, 1007-1019.	8.1	27
5	Nanotextured multicrystalline Al-BSF solar cells reaching 18% conversion efficiency using industrially viable solar cell processes. Physica Status Solidi - Rapid Research Letters, 2015, 9, 448-452.	2.4	23
6	Nanostructuring of c-Si surface by F2-based atmospheric pressure dry texturing process. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 307-311.	1.8	17
7	Plasma-free Dry-chemical Texturing Process for High-efficiency Multicrystalline Silicon Solar Cells. Energy Procedia, 2016, 92, 359-368.	1.8	17
8	Inline PECVD Deposition of Polyâ€Siâ€Based Tunnel Oxide Passivating Contacts. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800449.	1.8	13
9	On the Nature of Emitter Diffusion and Screen-Printing Contact Formation on Nanostructured Silicon Surfaces. IEEE Journal of Photovoltaics, 2017, 7, 136-143.	2.5	11
10	Atmospheric Pressure Dry Etching of Polysilicon Layers for Highly Reverse Biasâ€Stable TOPCon Solar Cells. Solar Rrl, 2022, 6, 2100481.	5.8	9
11	On the Formation of Black Silicon Features by Plasma-Less Etching of Silicon in Molecular Fluorine Gas. Nanomaterials, 2020, 10, 2214.	4.1	8
12	Atmospheric pressure dry texturing enabling 20% conversion efficiency on multicrystalline silicon PERC solar cells. AIP Conference Proceedings, 2018, , .	0.4	5
13	Rear passivated mc-Si solar cells textured by atmospheric pressure dry etching. Energy Procedia, 2017, 124, 260-266.	1.8	3
14	Optimizing Emitter Diffusion Process for Atmospheric Pressure Dry Nanotextured Monocrystalline PERC. IEEE Journal of Photovoltaics, 2022, 12, 244-250.	2.5	3
15	Optimized Adhesion of Plated Silicon Solar Cell Contacts by F₂â€Based Dry Atmospheric Pressure Nanoâ€Roughening. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800173.	1.8	1
16	Notice of Removal: On the nature of emitter diffusion and screen-printing contact formation on nanostructured silicon surfaces. , 2017, , .		0