Luca Serenelli

List of Publications by Year
in descending order

36	387	758635	839053
papers	citations	12 h-index	18 g-index

36	36	36	491
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fabrication of monolithic CZTS/Si tandem cells by development of the intermediate connection. Solar Energy, 2019, 190, 414-419.	2.9	33
2	Influence of oxygen on the sputtering of aluminum oxide for the surface passivation of crystalline silicon. Solar Energy Materials and Solar Cells, 2011, 95, 69-72.	3.0	30
3	Characterization of SiNx/a-Si:H crystalline silicon surface passivation under UV light exposure. Thin Solid Films, 2007, 515, 7625-7628.	0.8	25
4	Aluminum-silicon Interdiffusion in Screen Printed Metal Contacts for Silicon based Solar Cells Applications. Energy Procedia, 2013, 43, 100-110.	1.8	24
5	Laser fired back contact for silicon solar cells. Thin Solid Films, 2008, 516, 6767-6770.	0.8	23
6	Back contacted a-Si:H/c-Si heterostructure solar cells. Journal of Non-Crystalline Solids, 2008, 354, 2386-2391.	1.5	22
7	Application of NiOx thin films as p-type emitter layer in heterojunction solar cells. Physica Status Solidi C: Current Topics in Solid State Physics, 2016, 13, 1006-1010.	0.8	21
8	Doped SiO x emitter layer in amorphous/crystalline silicon heterojunction solar cell. Applied Physics A: Materials Science and Processing, 2014, 115, 705-712.	1.1	20
9	Potentials of mixed-phase doped layers in p-type Si heterojunction solar cells with ZnO:Al. Solar Energy Materials and Solar Cells, 2017, 169, 113-121.	3.0	20
10	Metastability of SiNx/a-Si:H crystalline silicon surface passivation for PV application. Thin Solid Films, 2008, 516, 6939-6942.	0.8	18
11	Silicon heterojunction solar cells toward higher fill factor. Progress in Photovoltaics: Research and Applications, 2020, 28, 307-320.	4.4	16
12	Back contact formation for p-type based a-Si:H/c-Si heterojunction solar cells. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 932-935.	0.8	14
13	BÌ² ack EÌ² nhanced HÌ² eterostructure with ÌÌ² NÌ² terDigitated contact â€“ BEHIND - solar cell. , 2008, , .		13
14	Hydrogen Plasma and Thermal Annealing Treatments on a-Si:H Thin Film for c-Si Surface Passivation. Energy Procedia, 2014, 60, 102-108.	1.8	13
15	Electroplated contacts and porous silicon for silicon based solar cells applications. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 194, 78-85.	1.7	13
16	New Selective Processing Technique for Solar Cells. Energy Procedia, 2013, 43, 54-65.	1.8	12
17	Metastability of a-SiOx:H thin films for c-Si surface passivation. Applied Surface Science, 2017, 392, 430-440.	3.1	9
18	Contact Formation on a-Si:H/c-Si Heterostructure Solar Cells. Engineering Materials, 2012, , 331-375.	0.3	8

#	Article	IF	Citations
19	Advances in screen printing metallization for a-Si:H/c-Si heterojunction solar cells. , 2014, , .		8
20	Innovative design of amorphous/crystalline silicon heterojunction solar cell. Thin Solid Films, 2008, 516, 6771-6774.	0.8	7
21	Stability of silicon based homojunction and heterojunction solar cells under space conditions. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 134, 263-268.	1.7	6
22	TCO Optimization in Si Heterojunction Solar Cells on p-type Wafers with n-SiOx Emitter. Energy Procedia, 2015, 84, 134-140.	1.8	6
23	Selective contacts and fill factor limitations in heterojunction solar cells. Progress in Photovoltaics: Research and Applications, 2021, 29, 876-884.	4.4	6
24	Dry texturing of mc-Si wafers. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 903-906.	0.8	4
25	Electroplated Nickel/Tin Solder Pads for Rear Metallization of Solar Cells. IEEE Journal of Photovoltaics, 2016, 6, 404-411.	1.5	4
26	SiNx/a-SiCx:H passivation layers for p- and n-type crystalline silicon wafers. Thin Solid Films, 2008, 516, 1569-1573.	0.8	3
27	Plasma dry etching for selective emitter formation in crystalline silicon based solar cell. Optoelectronic and Microelectronic Materials and Devices (COMMAD), Conference on, 2008, , .	0.0	3
28	Evaluation of Hydrogen plasma effect in a-Si:H/c-Si interface by means of Surface Photovoltage measurement and FTIR spectroscopy. , 2014, , .		1
29	A new approach: Low cost masking material and efficient copper metallization for higher efficiency silicon solar cells. , 2015, , .		1
30	Perovskite and a-Si:H/c-Si tandem solar cell. , 2015, , .		1
31	Laser Treatment to form An Effective Base Contact in a - Si:H/c-Si Heterojunction Solar Cells. Energy Procedia, 2015, 84, 228-235.	1.8	1
32	Titanium oxide films deposited by e-beam evaporation as n-type electrode for solar cell applications. Physica Status Solidi C: Current Topics in Solid State Physics, 2016, 13, 1002-1005.	0.8	1
33	AMPERE: An European project aimed to decrease the Levelized Cost of Energy with innovative heterojunction bifacial module solution ready for the market.. , 2018, , .		1
34	Dielectric Bragg back reflecting mirror in a-Si:H / c-Si heterostructure solar cell. , 2008, , .		0
35	Heterojunction solar cells on multi- crystalline silicon: surface treatments. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 928-931.	0.8	0
36	Hydrogenated silicon sub-oxide film for an effective and thermal stable silicon surface passivation. , 2018, , .		0