

Luca Serenelli

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Selective contacts and fill factor limitations in heterojunction solar cells. Progress in Photovoltaics: Research and Applications, 2021, 29, 876-884.	4.4	6
2	Silicon heterojunction solar cells toward higher fill factor. Progress in Photovoltaics: Research and Applications, 2020, 28, 307-320.	4.4	16
3	Fabrication of monolithic CZTS/Si tandem cells by development of the intermediate connection. Solar Energy, 2019, 190, 414-419.	2.9	33
4	Hydrogenated silicon sub-oxide film for an effective and thermal stable silicon surface passivation. , 2018, , .		0
5	AMPERE: An European project aimed to decrease the Levelized Cost of Energy with innovative heterojunction bifacial module solution ready for the market.. , 2018, , .		1
6	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
7	Metastability of a-SiO _x :H thin films for c-Si surface passivation. Applied Surface Science, 2017, 392, 430-440.	3.1	9
8	Application of NiO _x 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
9	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
10	Electroplated Nickel/Tin Solder Pads for Rear Metallization of Solar Cells. IEEE Journal of Photovoltaics, 2016, 6, 404-411.	1.5	4
11	TCO Optimization in Si Heterojunction Solar Cells on p-type Wafers with n-SiO _x Emitter. Energy Procedia, 2015, 84, 134-140.	1.8	6
12	A new approach: Low cost masking material and efficient copper metallization for higher efficiency silicon solar cells. , 2015, , .		1
13	Perovskite and a-Si:H/c-Si tandem solar cell. , 2015, , .		1
14	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
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	Evaluation of Hydrogen plasma effect in a-Si:H/c-Si interface by means of Surface Photovoltage measurement and FTIR spectroscopy. , 2014, , .		1
17	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
18	Advances in screen printing metallization for a-Si:H/c-Si heterojunction solar cells. , 2014, , .		8

#	ARTICLE	IF	CITATIONS
19	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
20	Aluminum-silicon Interdiffusion in Screen Printed Metal Contacts for Silicon based Solar Cells Applications. Energy Procedia, 2013, 43, 100-110.	1.8	24
21	New Selective Processing Technique for Solar Cells. Energy Procedia, 2013, 43, 54-65.	1.8	12
22	Contact Formation on a-Si:H/c-Si Heterostructure Solar Cells. Engineering Materials, 2012, , 331-375.	0.3	8
23	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
24	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
25	Dry texturing of mc-Si wafers. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 903-906.	0.8	4
26	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
27	Laser fired back contact for silicon solar cells. Thin Solid Films, 2008, 516, 6767-6770.	0.8	23
28	SiN _x /a-SiC _x :H passivation layers for p- and n-type crystalline silicon wafers. Thin Solid Films, 2008, 516, 1569-1573.	0.8	3
29	Innovative design of amorphous/crystalline silicon heterojunction solar cell. Thin Solid Films, 2008, 516, 6771-6774.	0.8	7
30	Metastability of SiN _x /a-Si:H crystalline silicon surface passivation for PV application. Thin Solid Films, 2008, 516, 6939-6942.	0.8	18
31	Back contacted a-Si:H/c-Si heterostructure solar cells. Journal of Non-Crystalline Solids, 2008, 354, 2386-2391.	1.5	22
32	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
33	B ² ack E ² nhanced H ² eterostructure with I ² N ² terDigitated contact " BEHIND - solar cell. , 2008, , .		13
34	Dielectric Bragg back reflecting mirror in a-Si:H / c-Si heterostructure solar cell. , 2008, , .		0
35	Characterization of SiN _x /a-Si:H crystalline silicon surface passivation under UV light exposure. Thin Solid Films, 2007, 515, 7625-7628.	0.8	25
36	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