Venkanna Kanneboina

List of Publications by Year
in descending order

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17 papers	108 citations	1478505 6 h-index	1372567 10 g-index
18 all docs	18 docs citations	18 times ranked	59 citing authors

#	Article	IF	Citations
1	The simulated performance of c-Si/a-Si:H heterojunction solar cells with nc-Si:H, Âµc-Si:H, a-SiC:H, and a-SiGe:H emitter layers. Journal of Computational Electronics, 2021, 20, 344-352.	2.5	8
2	Stepwise tuning of the doping and thickness of a-Si:H(p) emitter layer to improve the performance of c-Si(n)/a-Si:H(p) heterojunction solar cells. Journal of Materials Science: Materials in Electronics, 2021, 32, 4457-4465.	2.2	5
3	Spectroscopic ellipsometry investigation to study the microstructure evolution in boron-doped amorphous silicon films as a result of hydrogen dilution. SN Applied Sciences, 2021, 3, 1.	2.9	2
4	Influence of Ag nano particles on spectroscopic and luminescence properties of Dy3+ doped borate glasses. Journal of Non-Crystalline Solids, 2021, 559, 120702.	3.1	9
5	Effective utilization of light by transparent conducting oxide layer to enhance the performance of the silicon heterojunction solar cells. Bulletin of Materials Science, 2021, 44, 1.	1.7	0
6	Role of Hydrogen Flow Rate on Microstructure of a-Si:H(n) Films: Spectroscopic Ellipsometry Studies. Journal of Electronic Materials, 2019, 48, 2404-2410.	2.2	5
7	Role of chamber pressure on crystallinity and composition of silicon films using silane and methane as precursors in hot-wire chemical vapour deposition technique. Thin Solid Films, 2019, 682, 126-130.	1.8	3
8	Influence of deposition temperature on indium tin oxide thin films for solar cell applications. AIP Conference Proceedings, 2019, , .	0.4	5
9	Spectroscopic ellipsometry studies on microstructure evolution of a-Si:H to nc-Si:H films by H2 plasma exposure. Materials Today Communications, 2018, 15, 18-29.	1.9	18
10	High open circuit voltage c-Si/a-Si:H heterojunction solar cells: Influence of hydrogen plasma treatment studied by spectroscopic ellipsometry. Solar Energy, 2018, 166, 255-266.	6.1	18
11	Low-Temperature Growth of Amorphous Silicon Films and Direct Fabrication of Solar Cells on Flexible Polyimide and Photo-Paper Substrates. Journal of Electronic Materials, 2018, 47, 4710-4720.	2.2	14
12	Exploring the photo paper as flexible substrate for fabrication of a-Si:H based thin film solar cells at low temperature (110â€ Â°C): Influence of radio frequency power on opto-electronic properties. Thin Solid Films, 2018, 662, 155-164.	1.8	6
13	Hydrogenated amorphous silicon solar cells fabricated at low substrate temperature 110Â°C on flexible PET substrate. AIP Conference Proceedings, 2018, , .	0.4	1
14	Enhanced performance of amorphous silicon solar cells (110 Â°C) on flexible substrates with a-SiC:H(p) window layer and H₂ plasma treatment at n/i and i/p interface. Semiconductor Science and Technology, 2018, 33, 085009.	2.0	4
15	Evolution of nanostructure in hydrogenated amorphous silicon thin films with substrate temperature studied by Raman mapping, Raman scattering and spectroscopic ellipsometry. Journal of Materials Science: Materials in Electronics, 2017, 28, 8885-8894.	2.2	9
16	Raman and spectroscopic ellipsometry studies of a-Si:H thin films on low-cost photo paper substrate. Materials Today: Proceedings, 2017, 4, 12666-12670.	1.8	1
17	Influence of hydrogen plasma treatment of intrinsic a-Si:H layer on the performance of the c-Si/a-Si:Hheterojunction solar cells. Materials Today: Proceedings, 2017, 4, 12726-12729.	1.8	0