

Venkanna Kanneboina

List of Publications by Year in descending order

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Version: 2024-02-01

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