

Adinath M Funde

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37
papers

397
citations

12
h-index

18
g-index

48
ext. papers

486
ext. citations

3.1
avg, IF

3.18
L-index

#	Paper	IF	Citations
37	Influence of hydrogen dilution on structural, electrical and optical properties of hydrogenated nanocrystalline silicon (nc-Si:H) thin films prepared by plasma enhanced chemical vapour deposition (PE-CVD). <i>Solar Energy Materials and Solar Cells</i> , 2008 , 92, 1217-1223	6.4	77
36	Synthesis of CdS thin films at room temperature by RF-magnetron sputtering and study of its structural, electrical, optical and morphology properties. <i>Thin Solid Films</i> , 2017 , 631, 41-49	2.2	31
35	Effect of calcination temperature on the properties of CZTS absorber layer prepared by RF sputtering for solar cell applications. <i>Materials for Renewable and Sustainable Energy</i> , 2017 , 6, 1	4.7	23
34	Influence of RF power on structural, morphology, electrical, composition and optical properties of Al-doped ZnO films deposited by RF magnetron sputtering. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 1134-1143	2.1	23
33	Solvothermal synthesis of tin sulfide (SnS) nanorods and investigation of its field emission properties. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	21
32	CZTS/CdS: interface properties and band alignment study towards photovoltaic applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 4201-4210	2.1	21
31	Deposition of hydrogenated amorphous silicon (a-Si:H) films by hot-wire chemical vapor deposition (HW-CVD) method: Role of substrate temperature. <i>Solar Energy Materials and Solar Cells</i> , 2007 , 91, 714-720	6.4	20
30	Hydrogenated Nanocrystalline Silicon Thin Films Prepared by Hot-Wire Method with Varied Process Pressure. <i>Journal of Nanotechnology</i> , 2011 , 2011, 1-10	3.5	19
29	Influence of deposition pressure on structural, optical and electrical properties of nc-Si:H films deposited by HW-CVD. <i>Journal of Physics and Chemistry of Solids</i> , 2011 , 72, 685-691	3.9	16
28	Chemical spray pyrolysis synthesis of covellite copper sulphide (CuS) thin films for economical counter electrode for DSSCs. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 4940-4947	2.1	15
27	Influence of the deposition parameters on the microstructure and opto-electrical properties of hydrogenated nanocrystalline silicon films by HW-CVD. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 3616-3622	3.9	15
26	Substrate temperature dependent studies on properties of chemical spray pyrolysis deposited CdS thin films for solar cell applications. <i>Journal of Semiconductors</i> , 2017 , 38, 023001	2.3	14
25	Growth of Hydrogenated Nano-crystalline Silicon (nc-Si:H) Films by Plasma Enhanced Chemical Vapor Deposition (PE-CVD). <i>Energy Procedia</i> , 2017 , 110, 45-52	2.3	11
24	Carbon nanotube-amorphous silicon hybrid solar cell with improved conversion efficiency. <i>Nanotechnology</i> , 2016 , 27, 185401	3.4	9
23	Synthesis of Cubic Nanocrystalline Silicon Carbide (3C-SiC) Films by HW-CVD Method. <i>Silicon</i> , 2017 , 9, 421-429	2.4	8
22	Investigation of growth mechanism for highly oriented TiO ₂ nanorods: the role of reaction time and annealing temperature. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	8
21	Optical, structural and morphological study of CdS nanoparticles: role of sulfur source. <i>Nanomaterials and Energy</i> , 2020 , 9, 72-81	1.1	8

20	Investigations of the structural, optoelectronic and band alignment properties of Cu ₂ ZnSnS ₄ prepared by hot-injection method towards low-cost photovoltaic applications. <i>Journal of Alloys and Compounds</i> , 2021 , 854, 157093	5.7	8
19	Low substrate temperature deposition of transparent and conducting ZnO:Al thin films by RF magnetron sputtering. <i>Journal of Semiconductors</i> , 2016 , 37, 043001	2.3	7
18	Role of argon in hot wire chemical vapor deposition of hydrogenated nanocrystalline silicon thin films. <i>Thin Solid Films</i> , 2011 , 519, 3501-3508	2.2	6
17	Ternary CuSnS: Synthesis, Structure, Photoelectrochemical Activity, and Heterojunction Band Offset and Alignment. <i>Chemistry of Materials</i> , 2021 , 33, 1983-1993	9.6	6
16	Substrate temperature dependent structural, optical, morphology and electrical properties of RF sputtered CdTe thin films for solar cell application. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 12405-12411	2.1	5
15	Field emission investigations of solvothermal synthesized and soaked rutile-TiO ₂ nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 4920-4930	2.1	4
14	Influence of RF power on structural optical and electrical properties of hydrogenated nano-crystalline silicon (nc-Si:H) thin films deposited by PE-CVD. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 12365-12373	2.1	4
13	Hot wire chemical vapor deposited multiphase silicon carbide (SiC) thin films at various filament temperatures. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 12340-12350	2.1	3
12	Hydrothermally synthesized CuO nanostructures and their application in humidity sensing 2021 ,		3
11	Development of Low Temperature Heat Engine for Water Pumping Application. <i>Energy Procedia</i> , 2017 , 110, 292-297	2.3	2
10	All-carbon nanotube diode and solar cell statistically formed from macroscopic network. <i>Nano Research</i> , 2015 , 8, 2800-2809	10	2
9	Emitter passivation of silicon solar cell via organic coating at room temperature. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 12459-12463	2.1	2
8	Fine-Tuning of Relative Fraction of Amorphous and Crystalline Phases in Hydrogenated Silicon Prepared by PE-CVD Method. <i>Energy Procedia</i> , 2012 , 15, 229-239	2.3	1
7	Influence of Argon Flow on Deposition of Hydrogenated Nanocrystalline Silicon (nc-Si:H) Films by Plasma Chemical Vapor Deposition. <i>Journal of Nano Research</i> , 2009 , 5, 185-191	1	1
6	Boron Doped p-type Hydrogenated Nanocrystalline Silicon Films Grown by Hot Wire Chemical Vapor Deposition 2011 ,		1
5	Solar Spectra. <i>Springer Series in Materials Science</i> , 2020 , 17-32	0.9	1
4	Construing the interaction between solar cell surface and fatty amine for the room temperature passivation. <i>Solar Energy</i> , 2016 , 135, 359-365	6.8	0
3	An interlinked computational&experimental investigation into SnS nanoflakes for field emission applications. <i>New Journal of Chemistry</i> , 2021 , 45, 11768-11779	3.6	0

- 2 Effect of Annealing on Optical and Structural Properties of Rutile TiO₂ Nanoarrays. *Journal of Nano Research*, **2015**, 34, 23-27 1
- 1 Nanostructured Thin films of Anthracene by Liquid-Liquid Interface Recrystallization Technique. *Solid State Phenomena*, **2007**, 119, 27-34 0.4