

Jignasa Gohel

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

336
citations

840776

11
h-index

839539

18
g-index

22
all docs

22
docs citations

22
times ranked

442
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent trends in efficiency-stability improvement in perovskite solar cells. <i>Materials Today Energy</i> , 2020, 17, 100449.	4.7	43
2	A novel and cost effective CZTS hole transport material applied in perovskite solar cells. <i>CrystEngComm</i> , 2018, 20, 7677-7687.	2.6	36
3	Enhanced performance of Ag-doped ZnO and pure ZnO thin films DSSCs prepared by sol-gel spin coating. <i>Inorganic and Nano-Metal Chemistry</i> , 2017, 47, 1090-1096.	1.6	30
4	Enhanced solar cell performance by optimization of spray coated CZTS thin film using Taguchi and response surface method. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 5613-5623.	2.2	23
5	Optical and structural properties of ZnO thin films prepared by spray pyrolysis for enhanced efficiency perovskite solar cell application. <i>Optical and Quantum Electronics</i> , 2018, 50, 1.	3.3	23
6	Multi-response optimization of ZnO thin films using Grey-Taguchi technique and development of a model using ANN. <i>Optik</i> , 2017, 144, 422-435.	2.9	22
7	Optimization of TiO ₂ /ZnO bilayer electron transport layer to enhance efficiency of perovskite solar cell. <i>Materials Science in Semiconductor Processing</i> , 2018, 75, 149-156.	4.0	21
8	Current Progress and Future Prospective of Perovskite Solar Cells: A comprehensive Review. <i>Reviews on Advanced Materials Science</i> , 2018, 53, 161-186.	3.3	20
9	Superior efficiency achievement for FAPbI ₃ -perovskite thin film solar cell by optimization with response surface methodology technique and partial replacement of Pb by Sn. <i>Optik</i> , 2019, 176, 262-277.	2.9	18
10	Optimization of sol-gel spin-coated Cu ₂ ZnSnS ₄ (CZTS) thin-film control parameters by RSM method to enhance the solar cell performance. <i>Journal of Materials Science</i> , 2018, 53, 12203-12213.	3.7	15
11	Quasi solid-state quantum dot-sensitized solar cells with polysulfide gel polymer electrolyte for superior stability. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 2657-2666.	2.5	14
12	TiO ₂ nanoparticles prepared by mechanical reduction technique for superior DMFC nanocomposite PVA membranes. <i>Separation Science and Technology</i> , 2019, 54, 233-246.	2.5	11
13	Highly enhanced photocurrent of novel quantum-dot-co-sensitized PbS-Hg/CdS/Cu:ZnO thin films for photoelectrochemical applications. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	9
14	Synthesis of novel counter electrode by combination of mesoporous-macroporous CZTS films for enhanced performance of quantum-dots sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 18151-18158.	2.2	8
15	A study on optoelectronic performance of perovskite solar cell under different stress testing conditions. <i>Optical Materials</i> , 2020, 109, 110377.	3.6	8
16	Enhanced stability and efficiency of Sn containing perovskite solar cell with SnCl ₂ and SnI ₂ precursors. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 18144-18150.	2.2	7
17	Performance of low-cost mixed cationic carbon-based solar cells prepared through compositional engineering under ambient conditions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 392, 112437.	3.9	7
18	Impact of stress testing and passivation strategies on low-cost carbon-based perovskite solar cell under ambient conditions. <i>Optical Materials</i> , 2021, 117, 111214.	3.6	7

#	ARTICLE	IF	CITATIONS
19	A Review on Contemporary Hole Transport Materials for Perovskite Solar Cells. Green Energy and Technology, 2020, , 145-168.	0.6	7
20	Introduction of P3HT-based gradient heterojunction layer to improve optoelectronic performance of low-cost carbon-based perovskite solar cell. Optical Materials, 2021, 119, 111366.	3.6	5
21	Highly enhanced solar conversion efficiency of novel layer-by-layer PbS:Hg and CdS quantum dots-sensitized ZnO thin films prepared by sol-gel spin coating. Bulletin of Materials Science, 2018, 41, 1.	1.7	1