

Anupam Nandi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10642697/publications.pdf>

Version: 2024-02-01

26
papers

245
citations

1040056

9
h-index

996975

15
g-index

26
all docs

26
docs citations

26
times ranked

304
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectral conversion by silicon nanocrystal dispersed gel glass: efficiency enhancement of silicon solar cell. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 025106.	2.8	6
2	Performance analysis of different dielectrics for solar cells with TOPCon structure. <i>Journal of Computational Electronics</i> , 2022, 21, 471-490.	2.5	1
3	Evolution of high efficiency passivated emitter and rear contact (PERC) solar cells. , 2022, , 63-129.		0
4	Light-trapping scheme using silica spheres on ultrathin c-silicon absorber: transition from antireflection coating to whispering gallery resonator. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	2.3	2
5	Losses in bifacial PERC solar cell due to rear grid design and scope of improvement. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 102280.	2.7	1
6	Photo assisted negative differential resistance in porous silicon: A potential nano-structure for hot carrier solar cell. <i>Materials Today: Proceedings</i> , 2021, 39, 1930-1933.	1.8	2
7	Methane Sensitivity of Alpha-Fe ₂ O ₃ Obtained from Pechini Combustion Synthesis using Different Organic Fuels. <i>Journal of Electronic Materials</i> , 2021, 50, 3537-3545.	2.2	4
8	Hot-carrier radiative recombination through phonon confinement in silicon nanocrystals embedded in colloidal xerogel matrix. <i>Journal of Applied Physics</i> , 2021, 130, 033102.	2.5	1
9	Crumpled graphene oxide/spinel cobalt oxide composite based high performance supercapacitive energy storage device. <i>Journal of Energy Storage</i> , 2021, 42, 103021.	8.1	16
10	Synergistic interaction in metal oxide/silicon bulk heterostructures for efficient photo-carrier generation and photodegradation of toxic dye contaminants. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103672.	6.7	1
11	Study of the properties of SiO _x layers prepared by different techniques for rear side passivation in TOPCon solar cells. <i>Materials Science in Semiconductor Processing</i> , 2020, 119, 105163.	4.0	11
12	Evolution of PERC from Al-BSF: optimization based on root cause analysis. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	9
13	Optimization of stacked di-electric bilayer at rear side of PERC solar cell for better light management. , 2020, , .		0
14	Outstanding Room-Temperature Hydrogen Gas Detection by Plasma-Assisted and Graphene-Functionalized Core-Shell Assembly of SnO ₂ Nanoburflower. <i>ACS Omega</i> , 2019, 4, 11053-11065.	3.5	17
15	Mechanochemical synthesis of quasi monodispersed core-shell silicon nanostructure. <i>Applied Surface Science</i> , 2019, 494, 326-334.	6.1	3
16	Performance Enhancement of Solar Cell by Incorporating Bilayer RGO-ITO Smart Conducting Antireflection Coating. <i>Global Challenges</i> , 2019, 3, 1800109.	3.6	3
17	Application of Hybrid rGO-ITO Bilayer TCO on a-Si Solar Cell for Performance Enhancement. <i>IEEE Journal of Photovoltaics</i> , 2019, 9, 12-17.	2.5	5
18	Precursor Dependent Morphologies of Microwave Assisted ZnO Nanostructures and their VOC Detection Properties. <i>Materials Today: Proceedings</i> , 2018, 5, 9831-9838.	1.8	6

#	ARTICLE	IF	CITATIONS
19	Piezoelectricity in Amine Functionalized Reduced Graphene Oxide. <i>Materials Today: Proceedings</i> , 2018, 5, 9876-9880.	1.8	1
20	Development of graphene capped silicon-silicon oxide core-shell nano-structure: Charge trapping characteristics at the interfaces. <i>Applied Materials Today</i> , 2018, 13, 370-380.	4.3	9
21	Synergistic Effects of Dual-Metal Catalysts for Selective Butane Detection by SnO ₂ /Graphene Nanocomposite Sensor. <i>IEEE Sensors Journal</i> , 2018, 18, 6517-6526.	4.7	6
22	Light-Harvesting Properties of Embedded Tin Oxide Nanoparticles for Partial Rear Contact Silicon Solar Cells. <i>Plasmonics</i> , 2017, 12, 1761-1772.	3.4	12
23	Precursor dependent tailoring of morphology and bandgap of zinc oxide nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 10885-10892.	2.2	17
24	Optical and electrical effects of thin reduced graphene oxide layers on textured wafer-based c-Si solar cells for enhanced performance. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1920-1934.	5.5	19
25	Selective detection of carbon monoxide (CO) gas by reduced graphene oxide (rGO) at room temperature. <i>RSC Advances</i> , 2016, 6, 47337-47348.	3.6	89
26	Switching of selectivity from sulfur dioxide to butane: The role of V ₂ O ₅ concentration in nanostructured SnO ₂ sensors. , 2016, , .		4