

Anupam Nandi

List of Publications by Year in descending order

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26
papers

245
citations

1040056

9
h-index

996975

15
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26
all docs

26
docs citations

26
times ranked

304
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective detection of carbon monoxide (CO) gas by reduced graphene oxide (rGO) at room temperature. RSC Advances, 2016, 6, 47337-47348.	3.6	89
2	Optical and electrical effects of thin reduced graphene oxide layers on textured wafer-based c-Si solar cells for enhanced performance. Journal of Materials Chemistry C, 2017, 5, 1920-1934.	5.5	19
3	Precursor dependent tailoring of morphology and bandgap of zinc oxide nanostructures. Journal of Materials Science: Materials in Electronics, 2017, 28, 10885-10892.	2.2	17
4	Outstanding Room-Temperature Hydrogen Gas Detection by Plasma-Assisted and Graphene-Functionalized Core-Shell Assembly of SnO ₂ Nanoburflower. ACS Omega, 2019, 4, 11053-11065.	3.5	17
5	Crumpled graphene oxide/spinel cobalt oxide composite based high performance supercapacitive energy storage device. Journal of Energy Storage, 2021, 42, 103021.	8.1	16
6	Light-Harvesting Properties of Embedded Tin Oxide Nanoparticles for Partial Rear Contact Silicon Solar Cells. Plasmonics, 2017, 12, 1761-1772.	3.4	12
7	Study of the properties of SiO _x layers prepared by different techniques for rear side passivation in TOPCon solar cells. Materials Science in Semiconductor Processing, 2020, 119, 105163.	4.0	11
8	Development of graphene capped silicon-silicon oxide core-shell nano-structure: Charge trapping characteristics at the interfaces. Applied Materials Today, 2018, 13, 370-380.	4.3	9
9	Evolution of PERC from Al-BSF: optimization based on root cause analysis. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	9
10	Precursor Dependent Morphologies of Microwave Assisted ZnO Nanostructures and their VOC Detection Properties. Materials Today: Proceedings, 2018, 5, 9831-9838.	1.8	6
11	Synergistic Effects of Dual-Metal Catalysts for Selective Butane Detection by SnO ₂ /Graphene Nanocomposite Sensor. IEEE Sensors Journal, 2018, 18, 6517-6526.	4.7	6
12	Spectral conversion by silicon nanocrystal dispersed gel glass: efficiency enhancement of silicon solar cell. Journal Physics D: Applied Physics, 2022, 55, 025106.	2.8	6
13	Application of Hybrid rGO-ITO Bilayer TCO on a-Si Solar Cell for Performance Enhancement. IEEE Journal of Photovoltaics, 2019, 9, 12-17.	2.5	5
14	Switching of selectivity from sulfur dioxide to butane: The role of V ₂ O ₅ concentration in nanostructured SnO ₂ sensors. , 2016, , .		4
15	Methane Sensitivity of Alpha-Fe ₂ O ₃ Obtained from Pechini Combustion Synthesis using Different Organic Fuels. Journal of Electronic Materials, 2021, 50, 3537-3545.	2.2	4
16	Mechanochemical synthesis of quasi monodispersed core-shell silicon nanostructure. Applied Surface Science, 2019, 494, 326-334.	6.1	3
17	Performance Enhancement of Solar Cell by Incorporating Bilayer RGO-ITO Smart Conducting Antireflection Coating. Global Challenges, 2019, 3, 1800109.	3.6	3
18	Photo assisted negative differential resistance in porous silicon: A potential nano-structure for hot carrier solar cell. Materials Today: Proceedings, 2021, 39, 1930-1933.	1.8	2

#	ARTICLE	IF	CITATIONS
19	Light-trapping scheme using silica spheres on ultrathin c-silicon absorber: transition from antireflection coating to whispering gallery resonator. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	2.3	2
20	Piezoelectricity in Amine Functionalized Reduced Graphene Oxide. Materials Today: Proceedings, 2018, 5, 9876-9880.	1.8	1
21	Synergistic interaction in metal oxide/silicon bulk heterostructures for efficient photo-carrier generation and photodegradation of toxic dye contaminants. Journal of Environmental Chemical Engineering, 2020, 8, 103672.	6.7	1
22	Hot-carrier radiative recombination through phonon confinement in silicon nanocrystals embedded in colloidal xerogel matrix. Journal of Applied Physics, 2021, 130, 033102.	2.5	1
23	Performance analysis of different dielectrics for solar cells with TOPCon structure. Journal of Computational Electronics, 2022, 21, 471-490.	2.5	1
24	Losses in bifacial PERC solar cell due to rear grid design and scope of improvement. Sustainable Energy Technologies and Assessments, 2022, 52, 102280.	2.7	1
25	Optimization of stacked di-electric bilayer at rear side of PERC solar cell for better light management. , 2020, , .		0
26	Evolution of high efficiency passivated emitter and rear contact (PERC) solar cells. , 2022, , 63-129.		0