

Sapan Kumar Sen

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

660
citations

567281

15
h-index

610901

24
g-index

24
all docs

24
docs citations

24
times ranked

346
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparative study on the influence of pure anatase and Degussa-P25 TiO ₂ nanomaterials on the structural and optical properties of dye sensitized solar cell (DSSC) photoanode. <i>Optik</i> , 2018, 171, 507-516.	2.9	73
2	X-ray peak profile analysis of pure and Dy-doped h-MoO_3 nanobelts using Debye-Scherrer, Williamson-Hall and Halder-Wagner methods. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2020, 11, 025004.	1.5	64
3	Current Applications and Future Potential of Rare Earth Oxides in Sustainable Nuclear, Radiation, and Energy Devices: A Review. <i>ACS Applied Electronic Materials</i> , 2022, 4, 3327-3353.	4.3	61
4	XRD peak profile and optical properties analysis of Ag-doped h-MoO_3 nanorods synthesized via hydrothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 1768-1786.	2.2	56
5	Enhanced ductility and optoelectronic properties of environment-friendly CsGeCl ₃ under pressure. <i>AIP Advances</i> , 2021, 11, .	1.3	50
6	Characterization and Antibacterial Activity Study of Hydrothermally Synthesized h-MoO_3 Nanorods and h-MoO_3 Nanoplates. <i>BioNanoScience</i> , 2019, 9, 873-882.	3.5	46
7	A comparative study of hydrostatic pressure treated environmentally friendly perovskites CsXBr ₃ (X = Tl, ET, Q, Rb, Cs). <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 1768-1786.	1.3	46
8	Effect of Fe-doping and post annealing temperature on the structural and optical properties of MoO ₃ nanosheets. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 14355-14367.	2.2	39
9	An investigation of ⁶⁰ Co gamma radiation-induced effects on the properties of nanostructured h-MoO_3 for the application in optoelectronic and photonic devices. <i>Optical and Quantum Electronics</i> , 2019, 51, 1.	3.3	35
10	Effect of gamma (⁶⁰ Co) irradiation on the structural, morphological, optical and electrical properties of spray pyrolysis-deposited h-MoO_3 thin films. <i>Surfaces and Interfaces</i> , 2019, 17, 100377.	3.0	25
11	Structural and optical properties of sol-gel synthesized h-MoO_3 nanorods treated by gamma radiation. <i>Nano Express</i> , 2020, 1, 020026.	2.4	25
12	Investigation of aluminum doping on structural and optical characteristics of sol-gel assisted spin-coated nano-structured zinc oxide thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	25
13	Influence of Fe ³⁺ ions doping on TiO ₂ thin films: Defect generation, d-d transition and band gap tuning for optoelectronic device applications. <i>Physica B: Condensed Matter</i> , 2021, 604, 412618.	2.7	23
14	Effect of gamma irradiation on structural, morphological and optical properties of thermal spray pyrolysis deposited CuO thin film. <i>Ceramics International</i> , 2021, 47, 3626-3633.	4.8	20
15	Dy-doped MoO ₃ nanobelts synthesized via hydrothermal route: Influence of Dy contents on the structural, morphological and optical properties. <i>Journal of Alloys and Compounds</i> , 2021, 876, 160070.	5.5	17
16	Influence of total absorbed dose of Co-60 γ -radiation on the properties of h-MoO_3 thin films. <i>Thin Solid Films</i> , 2020, 693, 137700.	1.8	12
17	Gamma irradiated nanostructured NiFe ₂ O ₄ : Effect of γ -photon on morphological, structural, optical, and magnetic properties. <i>AIP Advances</i> , 2021, 11, .	1.3	10
18	Estimation of hydrothermally synthesized Iron incorporated 2D-sheet-like h-MoO_3 microstructural and optical parameters treated by annealing temperature. <i>Materials Research Express</i> , 2020, 7, 095005.	1.6	8

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19	Silver incorporated In-MoO_3 nanoplates to nanorods: Exploring the effects of doping on structural, morphological and optical properties. <i>Materials Today Communications</i> , 2021, 27, 102404.	1.9	7
20	Radiation crosslinked polyvinyl alcohol/polyvinyl pyrrolidone/acrylic acid hydrogels: swelling, crosslinking and dye adsorption study. <i>Iranian Polymer Journal (English Edition)</i> , 2021, 30, 1101-1116.	2.4	6
21	Pico-current Measurement Challenges and Remedies: A Review. <i>Universal Journal of Engineering Science</i> , 2017, 5, 57-63.	0.2	6
22	Chemical Synthesis and Substrate Temperature Effect on Morphology of 2D Vanadium Disulfide. <i>Crystal Research and Technology</i> , 2021, 56, 2000184.	1.3	5
23	Hydropower potentials in Bangladesh in context of current exploitation of energy sources: a comprehensive review. <i>International Journal of Energy and Water Resources</i> , 2022, 6, 413-435.	2.2	5
24	Theoretical investigation of structural, electronic, optical and thermoelectric properties of GaAgO_2 based on Density Functional Theory (DFT): Two approach. <i>World Journal of Advanced Research and Reviews</i> , 2022, 13, 279-291.	0.2	2