

Debojyoti Nath

List of Publications by Year in descending order

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Version: 2024-02-01

9
papers

640
citations

1684188
5
h-index

1474206
9
g-index

9
all docs

9
docs citations

9
times ranked

637
citing authors

#	ARTICLE	IF	CITATIONS
1	X-ray diffraction analysis by Williamson-Hall, Halder-Wagner and size-strain plot methods of CdSe nanoparticles- a comparative study. <i>Materials Chemistry and Physics</i> , 2020, 239, 122021.	4.0	597
2	Surface and displacement damage engineering on CdSe nanocrystalline thin film by swift heavy Ag ions: A theoretical investigation by SRIM/TRIM package. <i>Vacuum</i> , 2021, 190, 110293.	3.5	10
3	120 MeV Ni ¹⁰⁺ swift heavy ions irradiation on CdSe nanocrystals induces cubic to hexagonal phase transformation - A study of microstructural modification. <i>Materials Science in Semiconductor Processing</i> , 2020, 114, 105079.	4.0	8
4	Phase transformation of CdSe nanocrystals at high fluence irradiation of 120 MeV swift Ni ¹⁰⁺ and Ag ⁷⁺ ions – X-ray diffraction and Raman spectral analysis. <i>Applied Surface Science</i> , 2020, 509, 144708.	6.1	7
5	Microstructural analysis of SHI irradiated CdS nanocrystals- utilizing first principles method. <i>Journal of Alloys and Compounds</i> , 2020, 824, 153968.	5.5	5
6	Experimental (XRD) and theoretical (DFT) analysis for understanding the influence of SHI irradiation on the stacking fault energy in CdSe nanocrystals. <i>Journal of Alloys and Compounds</i> , 2021, 879, 160456.	5.5	5
7	Atomistic strain and structural analysis of 120 MeV Ni ions irradiated CdSe nanocrystals through molecular dynamics simulation method. <i>Vacuum</i> , 2020, 182, 109794.	3.5	4
8	Tuning the optical constants and thermal properties of CdS nanocrystals by SHI irradiation: A blended analysis through DFT+U and TS model. <i>Materials Science in Semiconductor Processing</i> , 2022, 138, 106278.	4.0	2
9	Band gap engineering of cadmium selenide nanocrystals using 120 MeV Ag ⁷⁺ swift heavy ions, alongside theoretical evidence through PBE+U analysis. <i>Journal of Alloys and Compounds</i> , 2020, 836, 155535.	5.5	2