Debojyoti Nath

List of Publications by Year
in descending order

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9	640	1684188 5	1474206 9
papers	citations	h-index	g-index

9	9	9	637
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tuning the optical constants and thermal properties of CdS nanocrystals by SHI irradiation: A blended analysis through DFT+U and TS model. Materials Science in Semiconductor Processing, 2022, 138, 106278.	4.0	2
2	Surface and displacement damage engineering on CdSe nanocrystalline thin film by swift heavy Ag ions: A theoretical investigation by SRIM/TRIM package. Vacuum, 2021, 190, 110293.	3.5	10
3	Experimental (XRD) and theoretical (DFT) analysis for understanding the influence of SHI irradiation on the stacking fault energy in CdSe nanocrystals. Journal of Alloys and Compounds, 2021, 879, 160456.	5.5	5
4	X-ray diffraction analysis by Williamson-Hall, Halder-Wagner and size-strain plot methods of CdSe nanoparticles- a comparative study. Materials Chemistry and Physics, 2020, 239, 122021.	4.0	597
5	Phase transformation of CdSe nanocrystals at high fluence irradiation of 120ÂMeV swift Ni10+ and Ag7+ ions â€“ X-ray diffraction and Raman spectral analysis. Applied Surface Science, 2020, 509, 144708.	6.1	7
6	Atomistic strain and structural analysis of 120ÂMeV Ni ions irradiated CdSe nanocrystals through molecular dynamics simulation method. Vacuum, 2020, 182, 109794.	3.5	4
7	Microstructural analysis of SHI irradiated CdS nanocrystals- utilizing first principles method. Journal of Alloys and Compounds, 2020, 824, 153968.	5.5	5
8	120 MeV Ni10+ swift heavy ions irradiation on CdSe nanocrystals induces cubic to hexagonal phase transformation - A study of microstructural modification. Materials Science in Semiconductor Processing, 2020, 114, 105079.	4.0	8
9	Band gap engineering of cadmium selenide nanocrystals using 120ÂMeV Ag7+ swift heavy ions, alongside theoretical evidence through PBE+U analysis. Journal of Alloys and Compounds, 2020, 836, 155535.	5.5	2