

Vishnu Chauhan

List of Publications by Year in descending order

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19
papers

289
citations

840776

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888059

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19
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docs citations

19
times ranked

213
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of humidity sensing properties and ion beam induced modifications in SnO ₂ -TiO ₂ nanocomposite thin films. <i>Surface and Coatings Technology</i> , 2020, 392, 125768.	4.8	39
2	Development of WO ₃ -PEDOT: PSS hybrid nanocomposites based devices for liquefied petroleum gas (LPG) sensor. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 13593-13603.	2.2	35
3	Studies of the electronic excitation modifications induced by SHI of Au ions in RF sputtered ZrO ₂ thin films. <i>Materials Science in Semiconductor Processing</i> , 2018, 88, 262-272.	4.0	33
4	Influence of high energy ion irradiation on structural, morphological and optical properties of high-k dielectric hafnium oxide (HfO ₂) thin films grown by atomic layer deposition. <i>Journal of Alloys and Compounds</i> , 2020, 831, 154698.	5.5	24
5	Influence of 120 MeV S ⁹⁺ ion irradiation on structural, optical and morphological properties of zirconium oxide thin films deposited by RF sputtering. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 898-907.	2.1	21
6	Ion beam engineering in WO ₃ -PEDOT: PSS hybrid nanocomposite thin films for gas sensing measurement at room temperature. <i>Inorganic Chemistry Communication</i> , 2020, 119, 108000.	3.9	18
7	Phase transformation and modifications in high-k ZrO ₂ nanocrystalline thin films by low energy Kr ⁵⁺ ion beam irradiation. <i>Materials Chemistry and Physics</i> , 2020, 240, 122127.	4.0	17
8	High-energy 120 MeV Au ⁹⁺ ion beam-induced modifications and evaluation of craters in surface morphology of SnO ₂ and TiO ₂ nanocomposite thin films. <i>Applied Nanoscience (Switzerland)</i> , 2019, 9, 1265-1280.	3.1	15
9	Dense electronic excitation induced modifications in nanocrystalline zirconium oxide thin films: Detailed analysis of optical and surface topographical. <i>Optical Materials</i> , 2019, 89, 576-590.	3.6	14
10	Defects engineering and enhancement in optical and structural properties of 2D-MoS ₂ thin films by high energy ion beam irradiation. <i>Materials Chemistry and Physics</i> , 2022, 276, 125422.	4.0	13
11	High energy (150 MeV) Fe ¹¹⁺ ion beam induced modifications of physico-chemical and photoluminescence properties of high-k dielectric nanocrystalline zirconium oxide thin films. <i>Ceramics International</i> , 2019, 45, 18887-18898.	4.8	12
12	Electronic structure engineering of 2-D MoS ₂ sputtered thin films under ion beam irradiation: Induced by controlled defect generation. <i>Ceramics International</i> , 2022, 48, 2999-3019.	4.8	12
13	High energy (MeV) ion beam induced modifications in Al ₂ O ₃ -ZnO multilayers thin films grown by ALD and enhancement in photoluminescence, optical and structural properties. <i>Vacuum</i> , 2021, 192, 110435.	3.5	9
14	High dose gamma radiation exposure upon Kapton-H polymer for modifications of optical, free volume, structural and chemical properties. <i>Optik</i> , 2020, 205, 164244.	2.9	6
15	Phase transformation and enhanced blue photoluminescence of zirconium oxide poly-crystalline thin film induced by Ni ion beam irradiation. <i>Scientific Reports</i> , 2021, 11, 17672.	3.3	6
16	Influence of high dose gamma radiation on optical, physico-chemical and surface morphology properties of nanocrystalline ZrO ₂ thin films. <i>Optical Materials</i> , 2022, 126, 112125.	3.6	6
17	Electronic excitation induced modifications in surface morphological, optical and physico-chemical properties of ALD grown nanocrystalline Al ₂ O ₃ thin films. <i>Superlattices and Microstructures</i> , 2020, 141, 106389.	3.1	5
18	Ion beam-induced modifications in ZnO nanostructures and potential applications. , 2021, , 117-155.		3

#	ARTICLE	IF	CITATIONS
19	Influence of high energy (MeV) Au ⁹⁺ ion irradiation for modification of properties in scaffold-assisted electro synthesized PbSe nanowires. <i>Inorganic Chemistry Communication</i> , 2022, 135, 109093.	3.9	1