## Indra Sulania

List of Publications by Year in descending order

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Ινισα στιτανία

#	Article	IF	CITATIONS
1	Effect of 150ÂkeV Ti+ ion implantation on the structural, optical, and electrical properties of nonstoichiometric WO2.72 thin films. Materials Research Bulletin, 2022, 145, 111566.	5.2	3
2	Swift heavy ion beam stimulated epitaxial recrystallization of Si/SiO2 heterostructure. Materials Letters, 2022, 308, 131153.	2.6	1
3	Modification of structural, topographical and magnetic properties induced by Ag ion irradiations in pure and divalent metal (Zn2+ and Co2+)-doped iron oxide thin films. Journal of Materials Science: Materials in Electronics, 2022, 33, 5661-5677.	2.2	1
4	Nanopattern Formation on Indium Phosphide Using Energetic Ions: An Overview with Various Ion Beam Parameters. ECS Transactions, 2022, 107, 3107-3116.	0.5	3
5	Formation of self-organized nano-dimensional structures on InP surfaces using ion irradiation and their wettability: A study based on experimental and theoretical concepts of surface. Radiation Physics and Chemistry, 2022, 199, 110353.	2.8	6
6	An offline prediction of nanoscale ripples propagation under ion irradiation: A correlation between ripples velocity and surface erosion rate. Vacuum, 2021, 183, 109795.	3.5	3
7	Tuning the optical and electrical properties of magnetron-sputtered Cu–ZnO thin films using low energy Ar ion irradiation. Optical Materials, 2021, 114, 110985.	3.6	10
8	Perpendicularly magnetized ferromagnetism in Mn/Al bilayer thin films on Si substrates induced by temperature dependent ion beam mixing. Physica Scripta, 2021, 96, 105806.	2.5	3
9	Thickness effect on scaling law and surface properties of nano-dimensional SnTe thin films. Journal of Applied Physics, 2021, 130, .	2.5	4
10	Tuning of fermi level in antimony telluride thin films by low-energy Feâ^'-ion implantation. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	31
11	Crystallization of Ge in ion-irradiated amorphous-Ge/Au thin films. CrystEngComm, 2020, 22, 666-677.	2.6	6
12	Intersubband Absorption in Gallium Arsenide Implanted with Silicon Negative Ions. International Journal of Nanoscience, 2020, 19, 1950019.	0.7	0
13	Microfluidic Affinity Sensor Based on a Molecularly Imprinted Polymer for Ultrasensitive Detection of Chlorpyrifos. ACS Omega, 2020, 5, 31765-31773.	3.5	27
14	Investigating the Nanocomposite Thin Films of Hematite α-Fe2O3 and Nafion for Cholesterol Biosensing Applications. Frontiers in Nanotechnology, 2020, 2, .	4.8	7
15	Silicon negative ion implantation induced vacancy defects in thermally grown SiO <sub>2</sub> thin films. Radiation Effects and Defects in Solids, 2020, 175, 695-703.	1.2	3
16	Studies of SiO2 thin films implanted with 100keV silicon ions. Materials Today: Proceedings, 2020, 23, 345-351.	1.8	2
17	Study of Low Energy (50 keV) Silicon Negative ion Implantation in GaAs. Materials Today: Proceedings, 2020, 23, 309-316.	1.8	0
18	Thickness dependent optical, structural, morphological, photocatalytic and catalytic properties of radio frequency magnetron sputtered nanostructured Cu2O–CuO thin films. Ceramics International, 2020, 46, 14902-14912.	4.8	20

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19	Study of humidity sensing properties and ion beam induced modifications in SnO2-TiO2 nanocomposite thin films. Surface and Coatings Technology, 2020, 392, 125768.	4.8	39
20	Effects of silicon negative ion implantation in semi-insulating gallium arsenide. Radiation Effects and Defects in Solids, 2019, 174, 636-646.	1.2	2
21	Structural investigation of low energy ion irradiated Al2O3. Ceramics International, 2019, 45, 20346-20353.	4.8	11
22	Swift Heavy Ion induced interface mixing in a Te/Cd/Te trilayer thin film system. Materials Today: Proceedings, 2019, 9, 450-457.	1.8	0
23	Fractal characterizations of energetic Si ions irradiated amorphizedâ€Si surfaces. Surface and Interface Analysis, 2019, 51, 817-825.	1.8	5
24	Thermal annealing induced competition of oxidation and grain growth in nickel thin films. Thin Solid Films, 2019, 680, 40-47.	1.8	9
25	Evidence of Ion-Beam-Induced Annealing in Graphene Oxide Films Using in Situ X-Ray Diffraction and Spectroscopy Techniques. Journal of Physical Chemistry C, 2018, 122, 9632-9640.	3.1	23
26	Modification in the properties of SnO2 and TiO2 nanocomposite thin films by low energy ion irradiation. Integrated Ferroelectrics, 2018, 193, 88-99.	0.7	4
27	Atomic and Magnetic Force Studies of Co Thin Films and Nanoparticles: Understanding the Surface Correlation Using Fractal Studies. , 2018, , 263-291.		2
28	Effect of low energy (keV) ion irradiation on structural, optical and morphological properties of SnO2–TiO2 nanocomposite thin films. Journal of Materials Science: Materials in Electronics, 2018, 29, 13328-13336.	2.2	27
29	Structural, optical and magnetic properties of N ion implanted CeO <sub>2</sub> thin films. RSC Advances, 2017, 7, 9160-9168.	3.6	41
30	Swift Heavy Ion irradiation induced nanocrystallisation in Te/Cd/Te trilayer thin films. Thin Solid Films, 2017, 636, 403-411.	1.8	2
31	Role of carrier concentration in swift heavy ion irradiation induced surface modifications. Surface Science, 2017, 664, 137-146.	1.9	7
32	Topography evolution of 500 keV Ar <sup>4+</sup> ion beam irradiated InP(100) surfaces – formation of self-organized In-rich nano-dots and scaling laws. Physical Chemistry Chemical Physics, 2016, 18, 20363-20370.	2.8	10
33	Medium energy, heavy and inert ion irradiation of metallic thin films: studies of surface nanoâ€structuring and metal burrowing. Surface and Interface Analysis, 2016, 48, 969-975.	1.8	3
34	Swift heavy ion irradiation induced nanograin formation in CdTe thin films. Nuclear Instruments & Methods in Physics Research B, 2016, 387, 1-9.	1.4	24
35	Investigations of electrical and optical properties of low energy ion irradiated α-Fe2O3 (hematite) thin films. AIP Conference Proceedings, 2016, , .	0.4	4
36	Medium energy ion irradiation of Ge surface - search for a better understanding of the surface nano-patterning. Surface and Interface Analysis, 2016, 48, 196-201.	1.8	7

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37	Effect of 100 MeV Nickel Ion Beam Irradiation on CdTe Nanostructured Thin Films. Advanced Science Letters, 2016, 22, 1008-1012.	0.2	3
38	Investigations of ripple pattern formation on Germanium surfaces using 100-keV Ar+ ions. Nanoscale Research Letters, 2015, 10, 88.	5.7	7
39	Synthesis of Pt nanoparticles and their burrowing into Si due to synergistic effects of ion beam energy losses. Beilstein Journal of Nanotechnology, 2014, 5, 1864-1872.	2.8	6
40	Micro-Raman study on the softening and stiffening of phonons in rutile titanium dioxide film: Competing effects of structural defects, crystallite size, and lattice strain. Journal of Applied Physics, 2014, 115, .	2.5	44
41	Ion Beams Induced Modifications in Polysulphone Polymer. Advanced Science Letters, 2014, 20, 1151-1154.	0.2	0
42	Investigation of ion beam mixing threshold value in Mn/Si system using swift heavy ions. Radiation Effects and Defects in Solids, 2013, 168, 607-614.	1.2	1
43	High-Quality Nanocrystalline ZnO Films Deposited by the Atom Beam Sputtering. Journal of Nanoengineering and Nanomanufacturing, 2013, 3, 331-336.	0.3	2
44	Low Energy Bombardment Induced Formation Of Ge Nanoparticles. Advanced Materials Letters, 2013, 4, 402-407.	0.6	12
45	Modification Of Nanocrystalline RF Sputtered Tin Oxide Thin Film Using SHI Irradiation. Advanced Materials Letters, 2013, 4, 428-432.	0.6	4
46	Effect Of Irradiation Of Si5+ÂÂion On Fe Doped Hydroxyapatite. Advanced Materials Letters, 2013, 4, 438-443.	0.6	10
47	Crystalline to amorphous phase transition of tin oxide nanocrystals induced by SHI at low temperature. AIP Conference Proceedings, 2012, , .	0.4	5
48	Modifications on CdS thin films due to low-energy ion bombardment. Radiation Effects and Defects in Solids, 2012, 167, 59-68.	1.2	4
49	A study on 120MeV Ag9+ irradiation induced modifications in structural, electrical and optical behavior of ZnSnO3 thin films. Nuclear Instruments & Methods in Physics Research B, 2012, 285, 61-64.	1.4	16
50	SHI induced modifications in SnO2 thin films: Structural, optical and surface morphological studies. Nuclear Instruments & Methods in Physics Research B, 2012, 286, 295-298.	1.4	11
51	Enhancement of wettability and antibiotic loading/release of hydroxyapatite thin film modified by 100MeV Ag7+ ion irradiation. Materials Chemistry and Physics, 2012, 134, 464-477.	4.0	41
52	Study Of Surface Morphology And Grain Size Of Irradiated MgO Thin Films. Advanced Materials Letters, 2012, 3, 112-117.	0.6	28
53	Raman scattering and FTIR studies of 100ÂMeV Fe <sup>9+</sup> ion-irradiated gallium phosphide. Radiation Effects and Defects in Solids, 2011, 166, 743-748.	1.2	6
54	125MeV Si9+ ion irradiation of calcium phosphate thin film coated by rf-magnetron sputtering technique. Applied Surface Science, 2011, 257, 2134-2141.	6.1	12

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73	Formation of self-affine nanostructures on ZnO surfaces by swift heavy ions. Journal of Applied Physics, 2008, 104, 024304.	2.5	56
74	Thermal and ion induced annealing of nanocrystalline ZnO thin film deposited by atom beam sputtering. Journal Physics D: Applied Physics, 2008, 41, 045305.	2.8	34
75	keV Ion-Induced Effective Surface Modifications on InP. Journal of Nanoscience and Nanotechnology, 2008, 8, 4163-4167.	0.9	8
76	Formation of TiO2 Nanorings Due to Rapid Thermal Annealing of Swift Heavy Ion Irradiated Films. Journal of Nanoscience and Nanotechnology, 2008, 8, 4387-4394.	0.9	3
77	Synthesis and Characterization of Gold Nanorings. Journal of Nanoscience and Nanotechnology, 2007, 7, 1878-1881.	0.9	38
78	Liquid phase epitaxial growth of Il–V semiconductor compound Zn3As2. Journal Physics D: Applied Physics, 2007, 40, 5071-5074.	2.8	7
79	Swift ion irradiation effects on L-threonine amino acid single crystals. Journal of Physics Condensed Matter, 2007, 19, 466108.	1.8	6
80	Magnetic Force Microscopy of Nano-Size Magnetic Domain Ordering in Heavy Ion Irradiated Fullerene Films. Journal of Nanoscience and Nanotechnology, 2007, 7, 2201-2205.	0.9	5