

# Dinakar Kanjilal

## List of Publications by Citations

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581  
papers

6,708  
citations

33  
h-index

46  
g-index

619  
ext. papers

7,270  
ext. citations

2.4  
avg, IF

5.65  
L-index

#	Paper	IF	Citations
581	Testing and operation of the 15UD Pelletron at NSC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1993</b> , 328, 97-100	1.2	239
580	Study of optical properties of swift heavy ion irradiated PADC polymer. <i>Radiation Measurements</i> , <b>2003</b> , 36, 611-614	1.5	88
579	Structural evolution of TiO <sub>2</sub> nanocrystalline thin films by thermal annealing and swift heavy ion irradiation. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 074311	2.5	63
578	Nanotwinning and structural phase transition in CdS quantum dots. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 584	5	62
577	Investigations on structural and optical properties of ZnO and ZnO:Co nanoparticles under dense electronic excitations. <i>RSC Advances</i> , <b>2014</b> , 4, 62123-62131	3.7	58
576	Swift heavy ion induced growth of nanocrystalline silicon in silicon oxide. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 3486-3489	2.5	55
575	Swift heavy ion beam irradiation induced modifications in structural, morphological and optical properties of CdS thin films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2007</b> , 254, 236-242	1.2	49
574	Electronic excitation induced mass transport on 200 MeV 107Ag <sup>14+</sup> ion irradiated Si surface. <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 2742-2746	2.5	49
573	Structural and photoluminescence properties of swift heavy ion irradiated CdS thin films. <i>Solar Energy Materials and Solar Cells</i> , <b>2006</b> , 90, 2297-2304	6.4	48
572	Effect of swift heavy ion irradiation on structure, optical, and gas sensing properties of SnO <sub>2</sub> thin films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2008</b> , 266, 1987-1992	1.2	47
571	Effect of nitrogen ion implantation on the optical and structural characteristics of CR-39 polymer. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 063527	2.5	46
570	Thermoluminescence and photoluminescence characteristics of nanocrystalline LiNaSO <sub>4</sub> ·Eu phosphor. <i>Journal Physics D: Applied Physics</i> , <b>2003</b> , 36, 2400-2406	3	46
569	High-energy heavy-ion induced physical and surface-chemical modifications in polycrystalline cadmium sulfide thin films. <i>Applied Physics A: Materials Science and Processing</i> , <b>2009</b> , 94, 703-714	2.6	44
568	White light emission from chemically synthesized ZnO/porous silicon nanocomposite. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 062002	3	43
567	Swift heavy ion irradiation induced modification of the microstructure of NiO thin films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2010</b> , 268, 1613-1617	1.2	42
566	Effect of swift heavy ion irradiation on structural, optical and electrical properties of spray deposited CdO thin films. <i>Radiation Physics and Chemistry</i> , <b>2011</b> , 80, 435-439	2.5	41
565	Room temperature ferromagnetism in Zn <sub>1-x</sub> CoxS thin films with wurtzite structure. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2011</b> , 323, 2734-2740	2.8	40

564	Reduction of graphene oxide by 100 MeV Au ion irradiation and its application as H <sub>2</sub> O <sub>2</sub> sensor. <i>Journal Physics D: Applied Physics</i> , <b>2015</b> , 48, 365105	3	38
563	p-Type gas-sensing behaviour of undoped SnO <sub>2</sub> thin films irradiated with a high-energy ion beam. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 135, 35-39	8.5	38
562	Interplay of defects in 1.2 MeV Ar irradiated ZnO. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 113516	2.5	37
561	Synthesis of nanocrystalline tin oxide thin film by swift heavy ion irradiation. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2006</b> , 6, 2554-9	1.3	37
560	Swift heavy ion irradiation induced modification of electrical characteristics of Au/n-Si Schottky barrier diode. <i>Materials Science in Semiconductor Processing</i> , <b>2001</b> , 4, 425-432	4.3	37
559	Nanocrystalline Ba <sub>0.97</sub> Ca <sub>0.03</sub> SO <sub>4</sub> :Eu for ion beams dosimetry. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 033520	2.5	36
558	Development of metallic ion beams using ECRIS. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2006</b> , 252, 354-360	1.2	36
557	Swift heavy ion irradiation effects on transport properties of epitaxial thin films of La <sub>1-x</sub> Ca <sub>x</sub> MnO <sub>3</sub> . <i>Radiation Effects and Defects in Solids</i> , <b>1999</b> , 147, 187-197	0.9	36
556	Enhancement of wettability and antibiotic loading/release of hydroxyapatite thin film modified by 100MeV Ag <sup>7+</sup> ion irradiation. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 134, 464-477	4.4	35
555	Ferromagnetism in ZnO single crystal. <i>Physica B: Condensed Matter</i> , <b>2010</b> , 405, 2659-2663	2.8	34
554	Modification of critical current density of MgB <sub>2</sub> films irradiated with 200 MeV Ag ions. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 2352-2354	3.4	34
553	Defects induced magnetic transition in Co doped ZnS thin films: Effects of swift heavy ion irradiations. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2012</b> , 324, 2136-2141	2.8	33
552	Influence of microstructure on room temperature ferromagnetism in Ni implanted nanodimensional ZnO films. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 033909	2.5	33
551	Nanoparticles of K <sub>2</sub> Ca <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> :Eu as effective detectors for swift heavy ions. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 064904	2.5	33
550	Study of surface activation of PET by low energy (keV) Ni <sup>+</sup> and N <sup>+</sup> ion implantation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2008</b> , 266, 4749-4756	1.2	33
549	50 MeV Li <sup>3+</sup> irradiation effects on the thermal expansion of Ca <sub>1-x</sub> Sr <sub>x</sub> Zr <sub>4</sub> P <sub>6</sub> O <sub>24</sub> . <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2002</b> , 187, 87-94	1.2	33
548	Effect of SHI irradiation on the morphology of SnO <sub>2</sub> thin film prepared by reactive thermal evaporation. <i>Vacuum</i> , <b>2013</b> , 90, 39-43	3.7	32
547	Investigations on the in vitro bioactivity of swift heavy oxygen ion irradiated hydroxyapatite. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2009</b> , 20 Suppl 1, S271-5	4.5	32

546	Study of chain scission versus crosslinking in MeV ion-irradiated polycarbonate using dielectric constant measurements and UV spectroscopy. <i>Radiation Measurements</i> , <b>2004</b> , 38, 197-203	1.5	32
545	Effects of 200-MeV Ag-ion irradiation on magnetization in a Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+y</sub> single crystal. <i>Physical Review B</i> , <b>1996</b> , 53, 2269-2272	3.3	32
544	Fermi level shifting of TiO <sub>2</sub> nanostructures during dense electronic excitation. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 013109	3.4	31
543	High energy irradiation--a tool for enhancing the bioactivity of Hydroxyapatite. <i>Journal of the Ceramic Society of Japan</i> , <b>2008</b> , 116, 320-324	1	31
542	Temperature-dependent roughness of electronically excited InP surfaces. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 5968-5972	2.5	31
541	Study of columnar amorphization and structural symmetry changes produced by swift heavy ion irradiation in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> thin films using STM. <i>Solid State Communications</i> , <b>1998</b> , 106, 805-810	1.6	30
540	Influence of swift heavy ion irradiation on electrical characteristics of Au/n-Si (1 0 0) Schottky barrier structure. <i>Journal Physics D: Applied Physics</i> , <b>2007</b> , 40, 6892-6897	3	30
539	Dielectric response of heavy ion irradiated PADC track detector. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 155, 116-119	1.2	30
538	Fractal characterization of the silicon surfaces produced by ion beam irradiation of varying fluences. <i>Applied Surface Science</i> , <b>2015</b> , 347, 706-712	6.7	29
537	Graphene scavenges free radicals to synergistically enhance structural properties in a gamma-irradiated polyethylene composite through enhanced interfacial interactions. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 22900-10	3.6	29
536	AMS and upcoming geochronology facility at Inter University Accelerator Centre (IUAC), New Delhi, India. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2019</b> , 438, 124-130	1.2	29
535	Tuning of ripple patterns and wetting dynamics of Si (100) surface using ion beam irradiation. <i>Current Applied Physics</i> , <b>2014</b> , 14, 312-317	2.6	29
534	Room temperature transparent ferromagnetism in 200 keV Ni <sup>2+</sup> ion implanted pulsed laser deposition grown ZnO/sapphire film. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 023901	2.5	29
533	Effect of ion irradiation on current-voltage characteristics of Au/n-GaN Schottky diodes. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 480, 962-965	5.7	29
532	Structural phase transformation in ZnS nanocrystalline thin films by swift heavy ion irradiation. <i>Solid State Communications</i> , <b>2010</b> , 150, 1158-1161	1.6	29
531	Dense electronic excitation induced defects in fused silica. <i>Journal Physics D: Applied Physics</i> , <b>2003</b> , 36, 3151-3155	3	29
530	Formation of nanodots on GaAs by 50 keV Ar <sup>+</sup> ion irradiation. <i>Applied Surface Science</i> , <b>2012</b> , 258, 4148-4151	4.5	28
529	Grain growth and structural transformation in ZnS nanocrystalline thin films. <i>Vacuum</i> , <b>2010</b> , 85, 307-311	3.7	28

528	Role of surface and subsurface defects in MgO thin film: XANES and magnetic investigations. <i>Superlattices and Microstructures</i> , <b>2015</b> , 77, 313-324	2.8	27
527	Ion beam-generated surface ripples: new insight in the underlying mechanism. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 336	5	27
526	Argon ions induced thermoluminescence properties of Ba <sub>0.12</sub> Sr <sub>0.88</sub> SO <sub>4</sub> phosphor. <i>Journal of Physics and Chemistry of Solids</i> , <b>2011</b> , 72, 136-143	3.9	27
525	Charge retention and optical properties of Ge nanocrystals embedded in GeO <sub>2</sub> matrix. <i>Solid State Communications</i> , <b>2007</b> , 143, 213-216	1.6	27
524	Recrystallization of ion-irradiated germanium due to intense electronic excitation. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 123532	2.5	27
523	Temperature-dependent barrier characteristics of swift heavy ion irradiated Au/n-Si Schottky structure. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 113723	2.5	27
522	Clustered vacancies in ZnO: chemical aspects and consequences on physical properties. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 105107	3	26
521	Structural and optical studies of 100 MeV Au irradiated thin films of tin oxide. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 314, 170-175	1.2	26
520	Swift heavy ion beam induced recrystallization of amorphous Si layers. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2005</b> , 240, 239-244	1.2	26
519	Studies of dense electronic excitation-induced modification in crystalline Fe-doped SnO <sub>2</sub> thin films. <i>Applied Surface Science</i> , <b>2015</b> , 332, 726-735	6.7	25
518	SHI induced enhancement in green emission from nanocrystalline CdS thin films for photonic applications. <i>Journal of Luminescence</i> , <b>2014</b> , 147, 184-189	3.8	25
517	Role of surface composition in morphological evolution of GaAs nano-dots with low-energy ion irradiation. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 552	5	25
516	Coexistence of intrinsic and extrinsic origins of room temperature ferromagnetism in as implanted and thermally annealed ZnO films probed by x-ray absorption spectroscopy. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 183708	2.5	25
515	Electronic excitations induced modifications of structural and optical properties of ZnO/porous silicon nanocomposites. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2009</b> , 267, 2399-2402	1.2	25
514	Effect of disorder on the exponent in the coherence region in high temperature superconductors. <i>Physica C: Superconductivity and Its Applications</i> , <b>2006</b> , 443, 61-68	1.3	25
513	Electrical characterisation of high energy 12C irradiated Au/n-GaAs Schottky Barrier Diodes. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 156, 110-115	1.2	25
512	Study Of Surface Morphology And Grain Size Of Irradiated MgO Thin Films. <i>Advanced Materials Letters</i> , <b>2012</b> , 3, 112-117	2.4	25
511	Formation of nanodots on oblique ion sputtered InP surfaces. <i>Applied Surface Science</i> , <b>2009</b> , 256, 562-566.7		24

510	Nanorods of LiF:Mg,Cu,P as Detectors for Mixed Field Radiations. <i>IEEE Nanotechnology Magazine</i> , <b>2008</b> , 7, 749-753	2.6	24
509	Morphological and micro-Raman investigations on Ar <sup>+</sup> -ion irradiated nanostructured GaAs surface. <i>Applied Surface Science</i> , <b>2007</b> , 253, 4531-4536	6.7	24
508	Influence of SHI irradiation on the structure and surface topography of CdTe thin films on flexible substrate. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2007</b> , 18, 1093-1098	2.1	24
507	Optical properties of swift ion beam irradiated CdTe thin films. <i>Thin Solid Films</i> , <b>2008</b> , 516, 5508-5512	2.2	24
506	Swift heavy ion irradiation induced texturing in NiO thin films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2008</b> , 266, 3332-3335	1.2	24
505	Characterizations of pulsed laser deposited SiC thin films. <i>Journal of Non-Crystalline Solids</i> , <b>2007</b> , 353, 4660-4665	3.9	24
504	Barrier height modification of Au/n-Si Schottky structures by swift heavy ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2006</b> , 248, 109-112	1.2	24
503	Color center formation in sapphire by swift heavy ion irradiation. <i>Radiation Measurements</i> , <b>2003</b> , 36, 723-737	2.3	24
502	Modifications in TL characteristics of K <sub>2</sub> Ca <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> : Eu by 7Li MeV ion beam. <i>Journal Physics D: Applied Physics</i> , <b>2005</b> , 38, 3995-4002	3	24
501	Microwave observation of the vortex locked-in state in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> thin films with columnar defects. <i>Physical Review B</i> , <b>1995</b> , 51, 8489-8493	3.3	24
500	Damage induced by 90 MeV silicon ions in crystalline silicon. <i>Journal of Applied Physics</i> , <b>1995</b> , 78, 2328-2332	3.3	24
499	Physical and biological properties of the ion beam irradiated PMMA-based composite films. <i>Applied Surface Science</i> , <b>2015</b> , 329, 116-126	6.7	23
498	Grain growth and crack formation in NiO thin films by swift heavy ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2010</b> , 268, 470-475	1.2	23
497	On the observation of physical, chemical, optical and thermal changes induced by 50MeV silicon ion in benzimidazole single crystals. <i>Materials Research Bulletin</i> , <b>2008</b> , 43, 852-863	5.1	23
496	Inhomogeneities in 130MeV Au <sup>12+</sup> ion irradiated Au/n-Si (100) Schottky structure. <i>Applied Surface Science</i> , <b>2008</b> , 254, 3277-3281	6.7	23
495	Synthesis of buried SiC using an energetic ion beam. <i>Journal Physics D: Applied Physics</i> , <b>2006</b> , 39, 3969-3973	3.3	23
494	Low temperature photoluminescence from disordered granular ZnO. <i>Journal of Luminescence</i> , <b>2016</b> , 169, 326-333	3.8	22
493	Electrical and microstructural analyses of 200 MeV Ag <sup>14+</sup> ion irradiated Ni/GaN Schottky barrier diode. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 153508	3.4	22

492	Ion irradiation induced modifications of nanostructured NiMnBn ferromagnetic shape memory alloy thin films. <i>Thin Solid Films</i> , <b>2011</b> , 520, 1631-1637	2.2	22
491	200 MeV silver ion irradiation induced structural modification in YBa2Cu3O7 $\delta$ thin films at 89 K: An in situ x-ray diffraction study. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 053912	2.5	22
490	Formation of nano-hillocks by impact of swift heavy ions on thin films of TiO2. <i>Applied Surface Science</i> , <b>2008</b> , 254, 4695-4700	6.7	22
489	ECR ion source based low energy ion beam facility <b>2002</b> , 59, 805-809		22
488	Swift heavy ion irradiation induced modifications in sapphire. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2003</b> , 212, 179-183	1.2	22
487	Controlled growth of silicon nanocrystallites in silicon oxide matrix using 150MeV Ag ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2005</b> , 239, 185-190	1.2	22
486	Defect controlled ferromagnetism in xenon ion irradiated zinc oxide. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2015</b> , 385, 318-325	2.8	21
485	Room temperature ferromagnetism in Mn-doped zinc oxide nanorods prepared by hybrid wet chemical route. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 7259-7266	5.7	21
484	Thermoluminescence of BaSO4 : Eu irradiated with 48 MeV Li3+and 150 MeV Ag12+ions. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 085408	3	21
483	Synthesis and improved photoluminescence of Eu:ZnO phosphor. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 10047-10051	4.3	21
482	Effect of swift heavy ion irradiation on hydrothermally synthesized hydroxyapatite ceramics. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2008</b> , 266, 911-917	1.2	21
481	Performance of first high temperature superconducting ECRIS. <i>Review of Scientific Instruments</i> , <b>2006</b> , 77, 03A317	1.7	21
480	Nanocrystalline SnO2 formation using energetic ion beam. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2007</b> , 7, 2036-40	1.3	21
479	Swift heavy-ion-induced epitaxial crystallization of buried Si3N4 layer. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 013532	2.5	21
478	Temperature dependence of current-voltage characteristics of Au/n-GaAs epitaxial Schottky diode. <i>Bulletin of Materials Science</i> , <b>2000</b> , 23, 471-474	1.7	21
477	Electronic transport and 1/f noise studies in 250 MeV 107Ag ion irradiated La0.75Ca0.25MnO3 thin films. <i>Journal of Applied Physics</i> , <b>1999</b> , 86, 4452-4457	2.5	21
476	Swift heavy ion-based materials science research at NSC. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 156, 206-211	1.2	21
475	Flux pinning by columnar defects in Bi2Sr2CaCu2O8+Y single crystals. <i>Physica C: Superconductivity and Its Applications</i> , <b>1996</b> , 264, 109-119	1.3	21

474	Facile synthesis of KCl:Sm <sup>3+</sup> nanophosphor as a new OSL dosimetric material achieved through charge transfer between the defect states. <i>RSC Advances</i> , <b>2017</b> , 7, 13836-13845	3.7	20
473	500 keV Ar <sup>2+</sup> ion irradiation induced anatase to brookite phase transformation and ferromagnetism at room temperature in TiO <sub>2</sub> thin films. <i>Applied Surface Science</i> , <b>2018</b> , 428, 723-729	6.7	20
472	Enhanced anomalous photo-absorption from TiO <sub>2</sub> nanostructures. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 124306	2.5	20
471	Influence of mesoporous substrate morphology on the structural, optical and electrical properties of RF sputtered ZnO layer deposited over porous silicon nanostructure. <i>Applied Surface Science</i> , <b>2012</b> , 258, 2283-2288	6.7	20
470	A hybrid model for the origin of photoluminescence from Ge nanocrystals in a SiO <sub>2</sub> matrix. <i>Semiconductor Science and Technology</i> , <b>2006</b> , 21, 1691-1698	1.8	20
469	Study of magnetization and pinning mechanisms in MgB <sub>2</sub> thin film superconductors: effect of heavy ion irradiation. <i>Superconductor Science and Technology</i> , <b>2003</b> , 16, 951-955	3.1	20
468	FTIR studies of swift silicon and oxygen ion irradiated porous silicon. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 156, 121-124	1.2	20
467	Optical study of MeV energy heavy ion-induced effects in crystalline germanium and silicon. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1994</b> , 94, 379-387	1.2	20
466	Point defect creation by low fluence swift heavy ion irradiation-induced low energy electrons in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> . <i>Superconductor Science and Technology</i> , <b>2008</b> , 21, 085016	3.1	20
465	Role of growth temperature on the structural, optical and electrical properties of ZnO thin films. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 649, 1205-1209	5.7	19
464	Swift Heavy Ion Induced Optical and Electronic Modifications of Graphene/TiO <sub>2</sub> Nanocomposites. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 21270-21277	3.8	19
463	Work Function Modulation of Molybdenum Disulfide Nanosheets by Introducing Systematic Lattice Strain. <i>Scientific Reports</i> , <b>2017</b> , 7, 9576	4.9	19
462	Evolution of porous network in GaSb under normally incident 60 keV Ar <sup>+</sup> ion irradiation. <i>Applied Surface Science</i> , <b>2014</b> , 310, 189-195	6.7	19
461	Swift heavy ion induced topography changes of Tin oxide thin films. <i>Applied Surface Science</i> , <b>2012</b> , 263, 586-590	6.7	19
460	Synthesis of nanocrystalline $\beta$ -Zn <sub>2</sub> SiO <sub>4</sub> at ZnO/porous silicon interface: Phase transition study. <i>Solid State Communications</i> , <b>2011</b> , 151, 701-703	1.6	19
459	Probing origin of room temperature ferromagnetism in Ni ion implanted ZnO films with x-ray absorption spectroscopy. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 013715	2.5	19
458	Investigation of swift heavy ion irradiation effects in CdTe crystals. <i>Journal Physics D: Applied Physics</i> , <b>2006</b> , 39, 2707-2710	3	19
457	Nanoprecipitation in transparent matrices using an energetic ion beam. <i>Nanotechnology</i> , <b>2004</b> , 15, 1620-1624	3.6	19



456	Spontaneous formation of superconducting NiBi <sub>3</sub> phase in Ni-Bi bilayer films. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 083902	2.5	18
455	Temporal evolution of Ge surface topography under keV ion irradiation: Combined effects of curvature-dependent sputter erosion and atomic redistribution. <i>Applied Surface Science</i> , <b>2016</b> , 360, 131-142	6.7	18
454	Role of ion beam induced solid flow in surface patterning of Si (1 0 0) using Ar ion beam irradiation. <i>Applied Surface Science</i> , <b>2013</b> , 283, 417-421	6.7	18
453	An approach to tune the amplitude of surface ripple patterns. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 131604	3.4	18
452	Effect of swift heavy ion irradiation on structural, optical and electrical properties of Cd <sub>2</sub> SnO <sub>4</sub> thin films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2010</b> , 268, 2391-2394	1.2	18
451	Pulsed laser deposition of SiC thin films at medium substrate temperatures. <i>Thin Solid Films</i> , <b>2008</b> , 516, 6083-6087	2.2	18
450	Synthesis of nanodimensional TiO <sub>2</sub> thin films using energetic ion beam. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2008</b> , 266, 1343-1348	1.2	18
449	Self-organization of 6H-SiC (0001) surface under keV ion irradiation. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 044301	2.5	18
448	Temperature-dependence of barrier height of swift heavy ion irradiated Au/n-Si Schottky structure. <i>Solid-State Electronics</i> , <b>2006</b> , 50, 1835-1837	1.7	18
447	Effect of secondary electrons from latent tracks created in YBCO by swift heavy ion irradiation. <i>Radiation Measurements</i> , <b>2003</b> , 36, 125-129	1.5	18
446	Latent track creation in fused silica by silver beam. <i>Radiation Measurements</i> , <b>2003</b> , 36, 137-140	1.5	18
445	Correlation between magnetic and micro-structural properties of low energy ion irradiated and un-irradiated Zn <sub>0.95</sub> Mn <sub>0.05</sub> O films. <i>RSC Advances</i> , <b>2017</b> , 7, 771-781	3.7	17
444	Lattice distortion in ion beam synthesized silicon nanocrystals in SiO <sub>x</sub> thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2012</b> , 209, 283-288	1.6	17
443	Superconducting linac at Inter-University Accelerator Centre: Operational challenges and solutions. <i>Physical Review Special Topics: Accelerators and Beams</i> , <b>2009</b> , 12,		17
442	Effect of swift heavy ions of silver and oxygen on GaN. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2006</b> , 244, 145-148	1.2	17
441	Magnetic, Electronic Structure And Interface Study Of Fe/MgO/Fe Multilayer. <i>Advanced Materials Letters</i> , <b>2014</b> , 5, 372-377	2.4	17
440	Ferromagnetism in Ni doped ZnS thin films: Effects of Ni concentration and swift heavy ion irradiation. <i>Vacuum</i> , <b>2015</b> , 111, 150-156	3.7	16
439	Influence of post-deposition annealing on structural, optical and transport properties of nanocomposite ZnO-Ag thin films. <i>Materials Science in Semiconductor Processing</i> , <b>2018</b> , 81, 22-29	4.3	16

438	Ion beam induced dissolution and precipitation of in situ formed Si-nanostructures in a-SiN <sub>x</sub> :H matrix. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2012</b> , 276, 51-55	1.2	16
437	Superdeformation and cluster structure in <sup>35</sup> Cl. <i>Physical Review C</i> , <b>2013</b> , 88,	2.7	16
436	Defects in 700 keV oxygen ion irradiated ZnO. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 311, 20-26	1.2	16
435	Evaluation of anti-HIF and anti-angiogenic properties of honokiol for the treatment of ocular neovascular diseases. <i>PLoS ONE</i> , <b>2014</b> , 9, e113717	3.7	16
434	60 keV Ar <sup>+</sup> -ion induced pattern formation on Si surface: Roles of sputter erosion and atomic redistribution. <i>Applied Surface Science</i> , <b>2014</b> , 310, 147-153	6.7	16
433	Structural and optical properties of ZnO and ZnO:Fe nanoparticles under dense electronic excitations. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 164321	2.5	16
432	Investigations on the 100 MeV Au <sup>7+</sup> -ion irradiation of GaN. <i>Semiconductor Science and Technology</i> , <b>2007</b> , 22, 511-516	1.8	16
431	Swift heavy ion-induced recrystallization of silicon-on-insulator (SOI) structures. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2002</b> , 187, 189-200	1.2	16
430	In situ current-voltage characterization of swift heavy ion irradiated Au/n-GaAs Schottky diode at low temperature. <i>Radiation Effects and Defects in Solids</i> , <b>2002</b> , 157, 367-374	0.9	16
429	Temporal evolution of nanoporous layer in off-normally ion irradiated GaSb. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 123515	2.5	15
428	A new AMS facility at Inter University Accelerator Centre, New Delhi. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 361, 115-119	1.2	15
427	Dynamics of modification of Ni/n-GaN Schottky barrier diodes irradiated at low temperature by 200 MeV Ag <sup>14+</sup> ions. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 033507	3.4	15
426	100keV nitrogen ion beam implanted polycarbonate: A possibility for UV blocking devices. <i>Optical Materials</i> , <b>2011</b> , 33, 1741-1744	3.3	15
425	250 keV Ar <sup>2+</sup> ion beam induced grain growth in tin oxide thin films. <i>Surface and Coatings Technology</i> , <b>2009</b> , 203, 2410-2414	4.4	15
424	Surface and structural changes in polyimide by 100 MeV Ag <sup>7+</sup> ion irradiation. <i>Surface and Coatings Technology</i> , <b>2009</b> , 203, 2620-2624	4.4	15
423	Local structure, optical and magnetic studies of Ni nanostructures embedded in a SiO <sub>2</sub> matrix by ion implantation. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 285211	1.8	15
422	Effect of swift heavy ion Ag <sup>9+</sup> -irradiation on the surface morphology, structure and optical properties of AgGaS <sub>2</sub> single crystals. <i>Semiconductor Science and Technology</i> , <b>2008</b> , 23, 125042	1.8	15
421	Charge-state distributions of metallic electron cyclotron resonance plasmas. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2008</b> , 26, 97-102	2.9	15

4 <sup>20</sup>	Observation of a universal aggregation mechanism and a possible phase transition in Au sputtered by swift heavy ions. <i>Physical Review Letters</i> , <b>2008</b> , 100, 245501	7.4	15
4 <sup>19</sup>	Ion-beam-induced phase separation in GeOx thin films. <i>Journal Physics D: Applied Physics</i> , <b>2007</b> , 40, 4568-4570	3.5	15
4 <sup>18</sup>	Effects of swift heavy ion irradiation on the electrical characteristics of Au/n-GaAs Schottky diodes. <i>Applied Surface Science</i> , <b>2007</b> , 254, 459-463	6.7	15
4 <sup>17</sup>	High energy heavy ion irradiation of chromium films. <i>Vacuum</i> , <b>1995</b> , 46, 369-371	3.7	15
4 <sup>16</sup>	Mechanistic insights into the interaction between energetic oxygen ions and nanosized ZnFeO: XAS-XMCD investigations. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 12084-12096	3.6	14
4 <sup>15</sup>	Investigation of O <sup>7+</sup> swift heavy ion irradiation on molybdenum doped indium oxide thin films. <i>Radiation Physics and Chemistry</i> , <b>2012</b> , 81, 589-593	2.5	14
4 <sup>14</sup>	Dense electronic excitation induced modification in TiO <sub>2</sub> doped SnO <sub>2</sub> nanocomposite films. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 610, 651-658	5.7	14
4 <sup>13</sup>	Nanostructures on GaAs surfaces due to 60keV Ar <sup>+</sup> -ion beam sputtering. <i>Applied Surface Science</i> , <b>2012</b> , 258, 4144-4147	6.7	14
4 <sup>12</sup>	Swift heavy ion irradiation induced modification of structure and surface morphology of BiFeO <sub>3</sub> thin film. <i>Bulletin of Materials Science</i> , <b>2013</b> , 36, 813-818	1.7	14
4 <sup>11</sup>	Complex impedance spectroscopy of Mn-doped zinc oxide nanorod films. <i>Solid State Communications</i> , <b>2011</b> , 151, 1182-1187	1.6	14
4 <sup>10</sup>	Formation of controlled semiconductor nanostructures by dense electronic excitation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2008</b> , 266, 3107-3112	1.2	14
4 <sup>09</sup>	MeV heavy ion induced recrystallization of buried silicon nitride layer: Role of energy loss processes. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 034912	2.5	14
4 <sup>08</sup>	Nanostructure formation on zinc oxide film by ion bombardment. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2006</b> , 244, 78-80	1.2	14
4 <sup>07</sup>	SEM, STM/STS and heavy ion irradiation studies on magnesium diboride superconductor. <i>Physica C: Superconductivity and Its Applications</i> , <b>2002</b> , 377, 1-6	1.3	14
4 <sup>06</sup>	Temperature dependence of 1/f noise in Pd/n-GaAs Schottky barrier diode. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 411	2.5	14
4 <sup>05</sup>	Phase Transition in a Perovskite Superconductor by Radiation-Induced Lattice Excitations. <i>Europhysics Letters</i> , <b>1994</b> , 25, 705-710	1.6	14
4 <sup>04</sup>	Room temperature superparamagnetism in rutile TiO <sub>2</sub> quantum dots produced via ECR sputtering. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 365, 82-85	1.2	13
4 <sup>03</sup>	Evolution of structural and magnetic properties of Co-doped TiO <sub>2</sub> thin films irradiated with 100 MeV Ag <sup>7+</sup> ions. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 315001	3	13

402	In Situ Investigation of Current Transport Across Pt/n-Si (100) Schottky Junction During 100 MeV Ni <sup>7+</sup> Ion Irradiation. <i>IEEE Transactions on Device and Materials Reliability</i> , <b>2013</b> , 13, 98-102 <sup>1,6</sup>	13
401	60 keV Ar <sup>+</sup> -ion induced modification of microstructural, compositional, and vibrational properties of InSb. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 143502	2.5 13
400	High-energy heavy-ion irradiation effects in makrofol-KG polycarbonate and PET. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 121, 3014-3019	2.9 13
399	Peak effect and magnetization minima in single crystals. <i>Superconductor Science and Technology</i> , <b>1996</b> , 9, 743-749	3.1 13
398	Enhancement of Ammonia Sensitivity in Swift Heavy Ion Irradiated Nanocrystalline SnO <sub>2</sub> Thin Films. <i>Journal of Nanomaterials</i> , <b>2008</b> , 2008, 1-4	3.2 13
397	Effects of 50 MeV Si ion irradiation on nonlinear optical benzimidazole single crystals. <i>Crystal Research and Technology</i> , <b>2007</b> , 42, 1376-1381	1.3 13
396	Effect of 50 MeV Li <sup>3+</sup> ion irradiation on electrical characteristics of high speed NPN power transistor. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2008</b> , 266, 1713-1718	1.2 13
395	Effect of 50 MeV Li <sup>3+</sup> ion irradiation on electrical, optical and mechanical properties of 4,4'-dimethylbenzophenone. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2008</b> , 266, 5032-5036 <sup>1,2</sup>	1.2 13
394	Influence of swift ions and proton implantation on the formation of optical waveguides in lithium niobate. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 084905	2.5 13
393	Nanoscale defect formation on InP surface by swift gold ion impact. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2001</b> , 179, 37-41	1.2 13
392	Microwave magnetoabsorption in c-axis-oriented YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> films with columnar defects. <i>Physica C: Superconductivity and Its Applications</i> , <b>1996</b> , 267, 79-86	1.3 13
391	Reversible hydrogen control of antiferromagnetic anisotropy in FeO. <i>Nature Communications</i> , <b>2021</b> , 12, 1668	17.4 13
390	Evolution of microstructure and crack pattern in NiO thin films under 200 MeV Au ion irradiation. <i>Radiation Physics and Chemistry</i> , <b>2012</b> , 81, 647-651	2.5 12
389	Phase transformation in Ni <sub>45</sub> Mn <sub>55</sub> ferromagnetic shape memory alloy thin films induced by dense ionization. <i>Applied Physics A: Materials Science and Processing</i> , <b>2012</b> , 107, 925-934	2.6 12
388	Structural, optical, and electrical characteristics of 70 MeV Si <sup>5+</sup> ion irradiation-induced nanoclusters of gallium nitride. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 1015-1020	4.3 12
387	Investigations of structural, dielectric and optical properties on silicon ion irradiated glycine monophosphate single crystals. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2009</b> , 267, 2495-2502 <sup>1,2</sup>	1.2 12
386	Investigations on the structural and optical properties of the swift heavy ion irradiated 6H-SiC. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2011</b> , 269, 1103-1107	1.2 12
385	Controlled formation of silicon nanocrystals by dense electronic excitation in PLD grown SiO <sub>x</sub> films. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2010</b> , 42, 2190-2196	3 12

384	High-energy ion induced physical and surface modifications in antimony sulphide thin films. <i>Current Applied Physics</i> , <b>2010</b> , 10, 1112-1116	2.6	12
383	Studies of effect of deposition parameters on the ZnO films prepared by PLD. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2008</b> , 266, 1533-1536	1.2	12
382	Positron lifetime studies of 100-MeV oxygen irradiated Pb-doped Bi-2223 superconductors. <i>Solid State Communications</i> , <b>2000</b> , 114, 655-659	1.6	12
381	Tunable wettability of Si through surface energy engineering by nanopatterning. <i>RSC Advances</i> , <b>2016</b> , 6, 48550-48557	3.7	12
380	Electronic structure of magnetic Fe/MgO/Fe/Co multilayer structure by NEXAFS spectroscopy. <i>Vacuum</i> , <b>2017</b> , 138, 48-54	3.7	11
379	Antibacterial properties of Au doped polycarbonate synthesized by gamma radiation assisted diffusion method. <i>Radiation Physics and Chemistry</i> , <b>2015</b> , 112, 97-103	2.5	11
378	Anomalous spectral-weight transfers unraveling oxygen screening and electronic correlations in the insulator-metal transition of VO <sub>2</sub> . <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	11
377	Anti-biofilm activity of Fe heavy ion irradiated polycarbonate. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 384, 6-13	1.2	11
376	A study on 120MeV Ag <sup>9+</sup> irradiation induced modifications in structural, electrical and optical behavior of ZnSnO <sub>3</sub> thin films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2012</b> , 285, 61-64	1.2	11
375	130MeV Au ion irradiation induced dewetting on In <sub>2</sub> Te <sub>3</sub> thin film. <i>Applied Surface Science</i> , <b>2012</b> , 258, 8558-8563	6.7	11
374	Cathodoluminescence and photoluminescence of swift ion irradiation modified zinc oxide-porous silicon nanocomposite. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2012</b> , 177, 1476-1481	3.1	11
373	Fabrication of ordered ripple patterns on GaAs(100) surface using 60 keV Ar <sup>+</sup> beam irradiation. <i>Surface Engineering</i> , <b>2013</b> , 29, 543-546	2.6	11
372	Structural phase diagram for ZnS nanocrystalline thin films under swift heavy ion irradiation. <i>Physica B: Condensed Matter</i> , <b>2011</b> , 406, 4150-4154	2.8	11
371	<sup>10</sup> Be measurements at IUAC-AMS facility. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2011</b> , 290, 179-182	1.5	11
370	Synthesis of copper nanoparticles in polycarbonate by ion implantation. <i>Bulletin of Materials Science</i> , <b>2011</b> , 34, 645-649	1.7	11
369	Optical property modification of ZnO: Effect of 1.2 MeV Ar irradiation. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2011</b> , 8, 512-515		11
368	125MeV Si <sup>9+</sup> ion irradiation of calcium phosphate thin film coated by rf-magnetron sputtering technique. <i>Applied Surface Science</i> , <b>2011</b> , 257, 2134-2141	6.7	11
367	First observation of high spin states and isomeric decay in <sup>210</sup> Fr. <i>Physical Review C</i> , <b>2011</b> , 84,	2.7	11

366	Effect of Li <sup>3+</sup> heavy ion irradiation on the Mo doped In <sub>2</sub> O <sub>3</sub> thin films prepared by spray pyrolysis technique. <i>Journal Physics D: Applied Physics</i> , <b>2011</b> , 44, 085404	3	11
365	Ion beam synthesis of Ni nanoparticles embedded in quartz. <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2008</b> , 26, L36		11
364	Epitaxial recrystallization of amorphous Si layers by swift heavy ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2007</b> , 257, 244-248	1.2	11
363	Barrier modification of Au/n-GaAs Schottky diode by swift heavy ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2007</b> , 263, 424-428	1.2	11
362	Development of Zn and Eu beams by plasma sputtering. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2006</b> , 246, 440-444	1.2	11
361	Thermoluminescence and photoluminescence characteristics of sol-gel prepared pure and europium doped silica glasses. <i>Journal Physics D: Applied Physics</i> , <b>2004</b> , 37, 842-846	3	11
360	Modification of magnetic anisotropy in ferromagnetic metallic glasses using high energy ion beam irradiation. <i>Surface and Coatings Technology</i> , <b>2005</b> , 196, 135-138	4.4	11
359	In situ STM studies of HOPG surface after 200 MeV Au <sup>+13</sup> ion irradiation. <i>Vacuum</i> , <b>2000</b> , 57, 319-325	3.7	11
358	Microstructural and surface morphological studies on Co doped ZnS diluted magnetic semiconductor thin films. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 13541-13550	2.1	11
357	Structural manipulation in Ge by swift heavy ions governed by electron-phonon coupling strength. <i>Materials Research Express</i> , <b>2015</b> , 2, 045903	1.7	10
356	Effect of defects and film thickness on the optical properties of ZnO/Au hybrid films. <i>RSC Advances</i> , <b>2015</b> , 5, 40813-40819	3.7	10
355	Influence of thermal annealing and ion irradiation on zinc silicate phases in nanocomposite ZnO/SiO <sub>2</sub> thin films. <i>Applied Surface Science</i> , <b>2014</b> , 317, 1075-1079	6.7	10
354	Swift heavy ion induced modification in morphological and physico-chemical properties of tin oxide nanocomposites. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 315, 179-183	1.2	10
353	Au <sup>9+</sup> swift heavy ion irradiation of Zn[CS(NH <sub>2</sub> ) <sub>2</sub> ] <sub>3</sub> SO <sub>4</sub> crystal: Crystalline perfection and optical properties. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 338, 1-7	1.2	10
352	Ion irradiation induced nano pattern formation on TiO <sub>2</sub> single crystal. <i>Applied Surface Science</i> , <b>2012</b> , 258, 4122-4124	6.7	10
351	Size-dependent optical properties of TiO <sub>2</sub> nanostructures. <i>Radiation Effects and Defects in Solids</i> , <b>2013</b> , 168, 518-524	0.9	10
350	Oxygen vacancy mediated large magnetization in chemically synthesized Ni-doped HfO <sub>2</sub> nanoparticle powder samples. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 063902	2.5	10
349	Radiation induced modification in nanoscale hardness of ZnO cone structures. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 063519	2.5	10

348	Modifications induced by Li <sup>3+</sup> , Ni <sup>9+</sup> and Au <sup>9+</sup> ion beams to CR-39 polymer track detector. <i>Radiation Measurements</i> , <b>2011</b> , 46, 127-132	1.5	10
347	1/f noise properties of a La <sub>1-x</sub> CaxMnO <sub>3</sub> thin film. <i>Solid State Communications</i> , <b>1998</b> , 108, 959-963	1.6	10
346	Influence of 100MeV oxygen ion irradiation on Ni <sub>3</sub> Si (100) Schottky barrier characteristics. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 044504	2.5	10
345	Synthesis of nanodimensional TiO <sub>2</sub> thin films. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2008</b> , 8, 4231-4233	1.7	10
344	Nano- and micro-scale patterning of Si (1 0 0) under keV ion irradiation. <i>Applied Surface Science</i> , <b>2007</b> , 253, 6824-6828	6.7	10
343	Vortex dynamics at subcritical currents at microwave frequencies in DyBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> thin films. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	10
342	A detailed investigation of surface modification in metallic glasses subjected to 130 MeV <sup>28</sup> Si ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2002</b> , 196, 89-99	1.2	10
341	Production of highly charged ions with an ECRIS using high temperature super-conducting coils. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2005</b> , 235, 498-503	1.2	10
340	Experimental investigation of 200 MeV <sup>107</sup> Ag <sup>14+</sup> ion induced modifications in n-GaAs epitaxial layer by in situ resistivity and Hall measurements. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2001</b> , 86, 228-231	3.1	10
339	Improvement of adhesion of TiN coatings on stainless steel substrates by high energy heavy ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1995</b> , 101, 400-405	1.2	10
338	In-situ transport and microstructural evolution in GaN Schottky diodes and epilayers exposed to swift heavy ion irradiation. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 161539	2.5	10
337	The influence of carbon concentration on the electronic structure and magnetic properties of carbon implanted ZnO thin films. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 13316-13323	3.6	9
336	Energy-separated sequential irradiation for ripple pattern tailoring on silicon surfaces. <i>Applied Surface Science</i> , <b>2015</b> , 357, 184-188	6.7	9
335	Role of Oxygen in the Work Function Modification at Various Stages of Chemically Synthesized Graphene. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 130911121623000	3.8	9
334	Energetic ion irradiation induced crystallization of Ni <sub>49</sub> Mn <sub>51</sub> ferromagnetic shape memory alloy thin film. <i>Vacuum</i> , <b>2013</b> , 89, 190-196	3.7	9
333	Embedded Ge nanocrystals in SiO <sub>2</sub> synthesized by ion implantation. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 134303	2.5	9
332	Correlation between electrical transport, microstructure and room temperature ferromagnetism in 200 keV Ni <sup>2+</sup> ion implanted zinc oxide (ZnO) thin films. <i>Applied Physics A: Materials Science and Processing</i> , <b>2012</b> , 107, 393-400	2.6	9
331	Effect of 1.2MeV argon ions irradiation on magnetic properties of ZnO. <i>Applied Surface Science</i> , <b>2013</b> , 282, 954-959	6.7	9

330	Kr <sup>++</sup> Ion Implantation-Induced Changes in Optical Properties of Polycarbonate. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , <b>2013</b> , 62, 1-4	3	9
329	High spin states and isomeric decays in doubly-odd 208Fr. <i>Nuclear Physics A</i> , <b>2010</b> , 842, 1-14	1.3	9
328	Electrical properties of high energy 120Sn implantation in GaAs. <i>Journal of Applied Physics</i> , <b>1997</b> , 82, 4228-4231	2.5	9
327	Synthesis of GaN phase by ion implantation. <i>Applied Surface Science</i> , <b>2007</b> , 253, 5317-5319	6.7	9
326	Investigation of swift heavy ion irradiation effects on Au/CdTe and Au/CdZnTe Schottky barrier diode. <i>Radiation Measurements</i> , <b>2008</b> , 43, 56-61	1.5	9
325	Nanocrystallisation of TiO <sub>2</sub> induced by dense electronic excitation. <i>Vacuum</i> , <b>2008</b> , 82, 639-644	3.7	9
324	Radon in Tube-Well Drinking Water and Indoor Air. <i>Indoor and Built Environment</i> , <b>2004</b> , 13, 383-385	1.8	9
323	Electrical and optical isolation of GaN by high energy ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2003</b> , 207, 308-313	1.2	9
322	Peak effect and its evolution with defect structure in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> thin films at microwave frequencies. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	9
321	Resistance changes in ion-irradiated Bi-Pb-Sr-Ca-Cu-O (BPSCCO) superconductors. <i>Superconductor Science and Technology</i> , <b>1992</b> , 5, 582-585	3.1	9
320	Effect Of Irradiation Of Si <sup>5+</sup> Ion On Fe Doped Hydroxyapatite. <i>Advanced Materials Letters</i> , <b>2013</b> , 4, 438-443	4.3	9
319	The effect of Ti <sup>+</sup> ion implantation on the anatase-rutile phase transformation and resistive switching properties of TiO <sub>2</sub> thin films. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 155303	2.5	9
318	Controlled morphological modifications of ZnO thin films by ion irradiation. <i>Materials Research Express</i> , <b>2017</b> , 4, 116402	1.7	8
317	Aluminum induced crystallization of amorphous Si: Thermal annealing and ion irradiation process. <i>Journal of Non-Crystalline Solids</i> , <b>2019</b> , 523, 119628	3.9	8
316	Modification of the microstructure and electronic properties of rutile TiO <sub>2</sub> thin films with 79 MeV Br ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 365, 553-559	1.2	8
315	Optical studies of cobalt implanted rutile TiO <sub>2</sub> (110) surfaces. <i>Applied Surface Science</i> , <b>2016</b> , 387, 938-948	4.7	8
314	Identification of swift heavy ion induced defects in Pt/n-GaN Schottky diodes by in-situ deep level transient spectroscopy. <i>Semiconductor Science and Technology</i> , <b>2018</b> , 33, 085008	1.8	8
313	. <i>IEEE Transactions on Device and Materials Reliability</i> , <b>2014</b> , 14, 721-725	1.6	8



312	Medium energy Ar <sup>+</sup> -ion induced ripple formation: Role of ion energy in pattern formation. <i>Applied Surface Science</i> , <b>2014</b> , 317, 476-479	6.7	8
311	Study on the ferromagnetism in Co and N doped ZnO thin films. <i>Current Applied Physics</i> , <b>2013</b> , 13, 1547-1553		8
310	Study of <sup>10</sup> Be in the sediments from the Krossfjorden and Kongsfjorden Fjord System, Svalbard. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2014</b> , 302, 903-909	1.5	8
309	Defect formation in GaN epitaxial layers due to swift heavy ion irradiation. <i>Radiation Effects and Defects in Solids</i> , <b>2011</b> , 166, 739-742	0.9	8
308	Formation of nanocrystalline TiO <sub>2</sub> by 100 MeV Au <sup>8+</sup> . <i>Applied Surface Science</i> , <b>2009</b> , 255, 8935-8940	6.7	8
307	Influence of columnar defects on magnetotransport and magnetization properties of Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+y</sub> . <i>Physical Review B</i> , <b>1997</b> , 55, 11129-11132	3.3	8
306	Electron spin resonance study on high energy heavy ion irradiated conducting carbon films. <i>Solid State Communications</i> , <b>1998</b> , 105, 543-546	1.6	8
305	Investigations of nano size defects in InP induced by swift iron ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2007</b> , 257, 287-292	1.2	8
304	Effect of 80 MeV oxygen ion beam irradiation on the properties of CdTe thin films. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 6982-6988	4.3	8
303	Raman scattering from nanopatterned silicon surface prepared by low-energy Ar <sup>+</sup> -ion irradiation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2006</b> , 35, 42-47	3	8
302	Electronic-loss induced ion beam mixing in various materials studied using SIMS technique. <i>Surface and Coatings Technology</i> , <b>2002</b> , 158-159, 214-218	4.4	8
301	Low energy ion implantation and high energy heavy ion irradiation in C <sub>60</sub> films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2001</b> , 178, 301-304	1.2	8
300	An SEM and STM investigation of surface smoothing in 130 MeV Si-irradiated metglass MG2705M. <i>Journal of Physics Condensed Matter</i> , <b>1999</b> , 11, 2679-2687	1.8	8
299	Surface smoothing of metallic glasses by swift heavy ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 156, 217-221	1.2	8
298	Radiation induced modifications on microstructure and related properties of high temperature superconductor YBCO. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 156, 21-29	1.2	8
297	Doping of chalcogenide glassy semiconductor by implanting Ni ions. <i>Journal of Non-Crystalline Solids</i> , <b>1995</b> , 191, 146-154	3.9	8
296	Electrical characteristics of GaAs implanted with 70 MeV <sup>120</sup> Sn ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1996</b> , 117, 129-133	1.2	8
295	Intense ionizing irradiation-induced atomic movement toward recrystallization in 4H-SiC. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 165901	2.5	8

294	Corrosion, wettability and thrombogenicity investigation of ion beam modified HAP/Al <sub>2</sub> O <sub>3</sub> . <i>Materials Chemistry and Physics</i> , <b>2015</b> , 163, 272-278	4.4	7
293	Statistical analysis of ripple morphology on Si surfaces due to 60 keV Ar <sup>+</sup> -ions. <i>Surface Topography: Metrology and Properties</i> , <b>2016</b> , 4, 015002	1.5	7
292	Evaluation of thermoluminescence of 200 keV carbon ion irradiated CaSO <sub>4</sub> :Dy nanophosphors for medical dosimetry. <i>Journal of Luminescence</i> , <b>2017</b> , 192, 695-700	3.8	7
291	Formation of self-organized nanostructures on semi-insulating InP by 100keV Ar <sup>+</sup> -ion irradiation. <i>Applied Surface Science</i> , <b>2012</b> , 258, 4139-4143	6.7	7
290	Evolution of ripple morphology on Si(1 0 0) by 60-keV argon ions. <i>Applied Surface Science</i> , <b>2012</b> , 258, 4135-4138	6.7	7
289	Excitation of thermoluminescence in Eu doped Ba <sub>0.12</sub> Sr <sub>0.88</sub> SO <sub>4</sub> nanophosphor by low energy argon ions. <i>Journal of Luminescence</i> , <b>2011</b> , 131, 2093-2099	3.8	7
288	Depth distribution of silicon-ion induced defects in crystalline silicon. <i>Journal of Applied Physics</i> , <b>1997</b> , 82, 4805-4809	2.5	7
287	Improvement of the properties of cuprate superconductors by creating controlled columnar defects. <i>Vacuum</i> , <b>1997</b> , 48, 979-982	3.7	7
286	An active drop counting device using condenser microphone for superheated emulsion detector. <i>Review of Scientific Instruments</i> , <b>2008</b> , 79, 113301	1.7	7
285	Measurements and analysis of bremsstrahlung x-ray spectrum obtained in NANOGAN electron cyclotron resonance ion source. <i>Review of Scientific Instruments</i> , <b>2008</b> , 79, 02A324	1.7	7
284	Effect of high-energy ions on the TL behavior of LiF:Mg,Cu,P detectors. <i>Radiation Measurements</i> , <b>2007</b> , 42, 1294-1300	1.5	7
283	Investigations on 40 MeV Li <sup>3+</sup> ions irradiated GaN epilayers. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2008</b> , 266, 1799-1803	1.2	7
282	Swift heavy ion induced modification on the optical, mechanical and dielectric behaviour of GLS single crystals. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2008</b> , 266, 1737-1740	1.2	7
281	Study of optical properties of swift heavy ion irradiated gallium antimonide. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2006</b> , 244, 141-144	1.2	7
280	Investigation of 70 MeV iron irradiation induced defects in C-silicon. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2003</b> , 211, 383-388	1.2	7
279	Effect of ion irradiation on the characteristics of magnetic tunnel junctions. <i>EPJ Applied Physics</i> , <b>2005</b> , 32, 115-118	1.1	7
278	Dielectric response of irradiated PADC polymer track detector. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2005</b> , 234, 520-524	1.2	7
277	Effect of swift high energy phosphorous ions on the optical and electrical properties of porous silicon. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 156, 100-104	1.2	7

276	Swift heavy ion irradiation-induced modifications in the electrical and surface properties of EGa <sub>2</sub> O <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2020</b> , 117, 142105	3.4	7
275	Effect of cobalt implantation on structural and optical properties of rutile TiO <sub>2</sub> (110). <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6	7
274	Enhanced surface and interface diffusion in NiBi bilayers by swift heavy ion irradiation. <i>RSC Advances</i> , <b>2016</b> , 6, 58950-58956	3.7	6
273	Apparatus for Seebeck coefficient measurement of wire, thin film, and bulk materials in the wide temperature range (80-500 K). <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 104901	1.7	6
272	Surface modification of indium phosphide by 100 MeV iron ions. <i>Radiation Effects and Defects in Solids</i> , <b>2013</b> , 168, 557-563	0.9	6
271	Enhancement of thermopower in GaN by ion irradiation and possible mechanisms. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 222102	3.4	6
270	Effect of frequency tuning on bremsstrahlung spectra, beam intensity, and shape in the 10 GHz NANOGEN electron cyclotron resonance ion source. <i>Review of Scientific Instruments</i> , <b>2014</b> , 85, 02A944	1.7	6
269	Opto-structural studies of well-dispersed silicon nano-crystals grown by atom beam sputtering. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 547	5	6
268	Evolution of superconducting and normal state properties of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> thick films under 200 MeV Ag ion irradiation. <i>Physica C: Superconductivity and Its Applications</i> , <b>2012</b> , 480, 98-101	1.3	6
267	An electrostatic deceleration lens for highly charged ions. <i>Review of Scientific Instruments</i> , <b>2010</b> , 81, 043301	3.0	6
266	Identification of sublattice damages in swift heavy ion irradiated N-doped 6H-SiC polytype studied by solid state NMR. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 7766-72	3.4	6
265	Ion beam induced anisotropic deformation of Si nanosprings. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 145404	3	6
264	Effects of thermal and athermal processing on the formation of buried SiC layers. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 014301	2.5	6
263	Effect of thermal spike energy created in CuFe <sub>2</sub> O <sub>4</sub> by 150MeV Ni <sup>11+</sup> swift heavy ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2011</b> , 269, 1088-1093	1.2	6
262	Effects of O <sup>7+</sup> swift heavy ion irradiation on indium oxide thin films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2011</b> , 269, 1836-1840	1.2	6
261	Effect of thermal annealing on the formation of silicon nanoclusters in SiO <sub>x</sub> films grown by PLD. <i>Physica B: Condensed Matter</i> , <b>2011</b> , 406, 2148-2151	2.8	6
260	Correlation between ion induced defects and luminescence properties of K <sub>3</sub> Na(SO <sub>4</sub> ) <sub>2</sub> : Eu nanophosphor. <i>Radiation Measurements</i> , <b>2011</b> , 46, 477-484	1.5	6
259	Effect of ion irradiation on the thermoluminescence properties of K <sub>2</sub> Ca <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> phosphor. <i>Radiation Effects and Defects in Solids</i> , <b>2011</b> , 166, 487-500	0.9	6

258	Enhancement of ferromagnetism in Ni-implanted HfO <sub>2</sub> dielectric thin films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2010</b> , 268, 1631-1636	1.2	6
257	Room temperature ferromagnetism in 200 KeV Nickel ion implanted Zinc oxide film. <i>Radiation Effects and Defects in Solids</i> , <b>2008</b> , 163, 215-222	0.9	6
256	Swift heavy ion irradiation-induced defects and electrical characteristics of Au/n-Si Schottky structure. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 105105	3	6
255	Rapid thermal and swift heavy ion induced annealing of Co ion implanted GaN films. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 124904	2.5	6
254	Synthesis and characterization of embedded SiC phase. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2007</b> , 254, 78-82	1.2	6
253	100 MeV Ag <sup>7+</sup> ion induced physicochemical changes in isotactic polypropylene. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2008</b> , 266, 1793-1798	1.2	6
252	Investigations on the influence of 100 MeV O <sup>7+</sup> ion irradiation on the structural, surface morphology and optical studies of gallium nitride epilayers. <i>Radiation Effects and Defects in Solids</i> , <b>2007</b> , 162, 229-236	0.9	6
251	Studies of defects and annealing behavior of silicon irradiated with 70MeV <sup>56</sup> Fe ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2006</b> , 244, 157-160	1.2	6
250	Study of microstructural changes in MgB <sub>2</sub> thin film superconductors irradiated with 200 MeV <sup>107</sup> Ag ions. <i>Superconductor Science and Technology</i> , <b>2004</b> , 17, 1072-1076	3.1	6
249	Synthesis of InN by N <sup>+</sup> implantation on InP at high temperature. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2003</b> , 212, 521-524	1.2	6
248	Fluctuation induced conductivity studies of 100 MeV oxygen ion irradiated Pb doped Bi-2223 superconductors. <i>Physica C: Superconductivity and Its Applications</i> , <b>2000</b> , 341-348, 1185-1186	1.3	6
247	Granularity controlled irradiation response of cuprate superconductors. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 156, 30-34	1.2	6
246	Effect of swift heavy ion irradiation on quasicrystalline materials. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 156, 201-205	1.2	6
245	Heavy ion induced damage in crystalline silicon and diodes. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 156, 72-77	1.2	6
244	Critical exponent of the electrical conductivity in the para coherence region of a thin film of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . <i>Bulletin of Materials Science</i> , <b>1994</b> , 17, 585-594	1.7	6
243	New dysmorphic features in Rubinstein-Taybi syndrome. <i>Journal of Medical Genetics</i> , <b>1992</b> , 29, 669-70	5.8	6
242	Influence Of Zn Concentration On The Size And Optical Properties Of ZnO nanocrystals In Silica Matrix Grown By RF Co-sputter Deposition. <i>Advanced Materials Letters</i> , <b>2013</b> , 4, 343-346	2.4	6
241	Development and test of 2.45 GHz microwave ion source based intense ion beam experimental facility. <i>Vacuum</i> , <b>2016</b> , 124, 55-59	3.7	5

240	Regrowth of Ge with different degrees of damage under thermal and athermal treatment. <i>RSC Advances</i> , <b>2016</b> , 6, 4576-4586	3.7	5
239	Conductivity and dielectric studies of Li <sup>3+</sup> -irradiated PVP-based polymer electrolytes. <i>High Performance Polymers</i> , <b>2018</b> , 30, 978-985	1.6	5
238	Raman and time resolved photoluminescence studies on the effect of temperature on disorder production in SHI irradiated N-doped 6H-SiC crystals. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 587, 733-738	5.7	5
237	Electroreflectance study of CuIn <sub>1-x</sub> Ga <sub>x</sub> Se <sub>2</sub> thin film solar cells. <i>Current Applied Physics</i> , <b>2014</b> , 14, 318-321	2.6	5
236	Electronic excitation induced phase transformation in FSMA thin film. <i>Vacuum</i> , <b>2013</b> , 89, 215-219	3.7	5
235	Evolution of damage fraction due to dense ionizing irradiation on TiO <sub>2</sub> film. <i>Applied Surface Science</i> , <b>2013</b> , 282, 595-600	6.7	5
234	Swift heavy ion irradiation induced microstructural modification and evolution of photoluminescence from Si rich SiN <sub>x</sub> :H. <i>Materials Research Express</i> , <b>2015</b> , 2, 046204	1.7	5
233	Synthesis of Pt nanoparticles and their burrowing into Si due to synergistic effects of ion beam energy losses. <i>Beilstein Journal of Nanotechnology</i> , <b>2014</b> , 5, 1864-72	3	5
232	Studies of xenon ECR plasma: search for a better understanding of the gas-mixing and anomalous effects. <i>Plasma Sources Science and Technology</i> , <b>2014</b> , 23, 065007	3.5	5
231	Argon-ion-induced formation of nanoporous GaSb layer: Microstructure, infrared luminescence, and vibrational properties. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 033514	2.5	5
230	Effect of rapid thermal annealing on nanocrystalline TiO <sub>2</sub> thin films synthesized by swift heavy ion irradiation. <i>Applied Surface Science</i> , <b>2012</b> , 258, 7855-7859	6.7	5
229	Nanopatterning of ZnS thin film surfaces by keV ion beam irradiation. <i>Surface and Coatings Technology</i> , <b>2011</b> , 206, 487-491	4.4	5
228	Ion beam induced formation of nanocrystalline silicon in pulsed laser deposited SiO <sub>x</sub> thin films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2011</b> , 269, 3233-3236	1.2	5
227	Tailoring the spring constant of Si nanorod structures using swift heavy ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2009</b> , 267, 3617-3623	1.2	5
226	Study of structure and surface modification of silicon-on-insulator (SOI) devices synthesized by dual ion implantation. <i>Surface and Coatings Technology</i> , <b>2009</b> , 203, 2654-2657	4.4	5
225	Effect of swift heavy ion irradiation on photoluminescence of Tris-(8-hydroxyquinoline)aluminum thin films. <i>Surface and Coatings Technology</i> , <b>2009</b> , 203, 2679-2681	4.4	5
224	Magnetization in MgO based multilayers fabricated by e-beam evaporation <b>2012</b> ,		5
223	Ion- Beam Modification of PEO Based Polymer Electrolytes. <i>Macromolecular Symposia</i> , <b>2009</b> , 277, 8-13	0.8	5

222	Observation of grain growth in swift heavy ion irradiated NiO thin films. <i>Indian Journal of Physics</i> , <b>2010</b> , 84, 1399-1404	1.4	5
221	Hydrogen implantation-induced large area exfoliation in AlN epitaxial layers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2010</b> , 207, 29-32	1.6	5
220	Plastic flow in Metglass 2204 under swift heavy ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1997</b> , 129, 487-490	1.2	5
219	Structural and transport properties of high energy ion irradiated YBCO. <i>Vacuum</i> , <b>1997</b> , 48, 983-988	3.7	5
218	Effect of Au irradiation energy on ejection of ZnS nanoparticles from ZnS film. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 014313	2.5	5
217	Method to reduce microphonics in superconducting resonators. <i>Physical Review Special Topics: Accelerators and Beams</i> , <b>2007</b> , 10,		5
216	MeV heavy ion beam induced epitaxial crystallization of buried Si <sub>3</sub> N <sub>4</sub> layer. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2006</b> , 244, 213-216	1.2	5
215	High-energy ion implantation of iron in silicon. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2003</b> , 212, 525-529	1.2	5
214	Development of an in situ ultra-high-vacuum scanning tunneling microscope in the beamline of the 15 MV tandem accelerator for studies of surface modification by a swift heavy ion beam. <i>Review of Scientific Instruments</i> , <b>2001</b> , 72, 3884-3890	1.7	5
213	Near-infrared transmission characteristics of GaAs implanted with high energy (100 MeV) <sup>28</sup> Si ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2000</b> , 168, 229-236	1.2	5
212	Enhancement of interlayer coupling in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+y</sub> crystals upon heavy-ion irradiation. <i>Physical Review B</i> , <b>2000</b> , 61, 14374-14377	3.3	5
211	Oxygen related defects in high energy ion irradiated GaAs. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 156, 95-99	1.2	5
210	Stainless steel phase detector for the 15 UD Pelletron at Nuclear Science Centre. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1995</b> , 356, 185-188	1.2	5
209	Effects of heavy-ion irradiation on the magnetic anomaly in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+y</sub> crystal near the transition temperature. <i>Physica C: Superconductivity and Its Applications</i> , <b>1995</b> , 254, 281-284	1.3	5
208	Electrical characteristics of 100 MeV <sup>28</sup> Si implanted LEC grown GaAs<100>. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1996</b> , 117, 243-248	1.2	5
207	Electronic properties of ion irradiated amorphous carbon films prepared by plasma assisted CVD method. <i>Vacuum</i> , <b>1996</b> , 47, 1285-1288	3.7	5
206	Facile synthesis of a superhydrophobic and colossal broadband antireflective nanoporous GaSb surface. <i>RSC Advances</i> , <b>2016</b> , 6, 48919-48926	3.7	5
205	Intrinsic defects and structural phase of ZnS nanocrystalline thin films: effects of substrate temperature. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 5640-5645	2.1	5

204	Influence of fractal and multifractal morphology on the wettability and reflectivity of crystalline-Si thin film surfaces as photon absorber layers for solar cell. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 045301	2.5	5
203	Modifications in room temperature ferromagnetism by dense electronic excitations in Zn <sub>0.9</sub> Mg <sub>0.1</sub> O thin films. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 710, 831-835	5.7	4
202	Carbon Ion Irradiation Damage Effects on Electrical Characteristics of Silicon PNP Power BJTs. <i>IEEE Transactions on Device and Materials Reliability</i> , <b>2015</b> , 15, 101-108	1.6	4
201	Influence of substrate temperature on properties of nc ZnO/SiO thin films grown by rf co-sputter deposition. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 639, 511-515	5.7	4
200	Dynamic Surface evolution and scaling studies on TiO <sub>2</sub> thin films by Ti ion implantation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2020</b> , 474, 68-73	1.2	4
199	An assessment on crystallization phenomena of Si in Al/a-Si thin films thermal annealing and ion irradiation.. <i>RSC Advances</i> , <b>2020</b> , 10, 4414-4426	3.7	4
198	Teflon impregnated anatase TiO <sub>2</sub> nanoparticles irradiated by 80 keV Xe <sup>+</sup> ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 336, 135-142	1.2	4
197	Engineering strain, densification, order parameter and magnetic properties of FePt thin films by dense electronic excitations. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 083902	2.5	4
196	Effect of 100 MeV Ni <sup>9+</sup> ion irradiation on MOCVD grown n-GaN. <i>Physica B: Condensed Matter</i> , <b>2011</b> , 406, 4210-4213	2.8	4
195	Studies of emittance of multiply charged ions extracted from high temperature superconducting electron cyclotron resonance ion source, PKDELIS. <i>Review of Scientific Instruments</i> , <b>2010</b> , 81, 02B713	1.7	4
194	Raman scattering and FTIR studies of 100 MeV Fe <sup>9+</sup> ion-irradiated gallium phosphide. <i>Radiation Effects and Defects in Solids</i> , <b>2011</b> , 166, 743-748	0.9	4
193	Alignment of magnetic clusters in polymer using Ar ion beam. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 235501	3	4
192	Substrate dependence in the formation of TiO <sub>2</sub> nanophases by dense electronic excitation. <i>Semiconductor Science and Technology</i> , <b>2009</b> , 24, 085023	1.8	4
191	Modifications induced in the polycarbonate Makrofol KG polymer by Li (50 MeV) ion irradiation <b>2009</b> , 72, 759-764		4
190	Investigations on the effect of 100MeV Ni ions irradiated chloride vapour phase epitaxy (Cl-VPE) grown GaN epilayers. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2009</b> , 267, 79-82	1.2	4
189	Studies of swift iron ions in crystalline silicon. <i>Surface and Coatings Technology</i> , <b>2009</b> , 203, 2422-2426	4.4	4
188	Ion beam synthesis of germanium nanostructures. <i>Surface and Coatings Technology</i> , <b>2009</b> , 203, 2476-2478	4.4	4
187	Ion beam patterning of nano-gratings on SiC surface. <i>Surface and Coatings Technology</i> , <b>2009</b> , 203, 2442-2445	4.4	4

186	Superconductivity and cryogenics for linear accelerator programme at IUAC, New Delhi. <i>Cryogenics</i> , <b>2009</b> , 49, 243-248	1.8	4
185	Superconducting properties of niobium after electron beam welding. <i>Physical Review Special Topics: Accelerators and Beams</i> , <b>2011</b> , 14,		4
184	Oxygen displacement in a $^{107}\text{Ag}^{17+}$ ion irradiated $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ single crystal. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 1576-1578	3.4	4
183	Irradiation effects on sodium sulphanilate dihydrate single crystals. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2008</b> , 266, 1754-1758	1.2	4
182	Effect of swift heavy ion irradiation on deep levels in $\text{Au}\beta\text{-Si}$ (100) Schottky diode studied by deep level transient spectroscopy. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 113709	2.5	4
181	High energy Sn ion implantation induced effects in InSb substrates. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2006</b> , 244, 179-182	1.2	4
180	Role of electronic and nuclear energy losses in swift heavy ion beam induced epitaxial crystallization of a buried $\text{Si}_3\text{N}_4$ layer. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2006</b> , 245, 255-259	1.2	4
179	Recirculating gas stripper system for 15 UD Pelletron. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2005</b> , 550, 70-73	1.2	4
178	Luminescence from Si nanocrystal grown in fused silica using keV and MeV beam. <i>Surface and Coatings Technology</i> , <b>2005</b> , 196, 34-38	4.4	4
177	Investigations on the annealing behavior of high-energy carbon irradiated Au/n-GaAs Schottky barrier diodes. <i>Materials Science in Semiconductor Processing</i> , <b>2000</b> , 3, 195-199	4.3	4
176	In situ $1/f$ noise studies on swift heavy ion irradiated p-type silicon. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 156, 265-269	1.2	4
175	Angular dependence of magnetotransport properties in $\text{YBa}_2\text{Cu}_3\text{O}_7$ films with columnar defects. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 156, 40-43	1.2	4
174	Far-infrared transmission of $\text{YBa}_2\text{Cu}_3\text{O}_7$ thin films with columnar defects. <i>Physica C: Superconductivity and Its Applications</i> , <b>1994</b> , 232, 174-180	1.3	4
173	Synthesis of Controlled Diluted Magnetic Semiconductor by Ni Implantation in ZnO Crystal. <i>Advanced Science Letters</i> , <b>2009</b> , 2, 324-328	0.1	4
172	Native Defects And Optical Properties Of Ar Ion Irradiated ZnO. <i>Advanced Materials Letters</i> , <b>2015</b> , 6, 365-369	2.4	4
171	Crystallization of Ge in ion-irradiated amorphous-Ge/Au thin films. <i>CrystEngComm</i> , <b>2020</b> , 22, 666-677	3.3	4
170	Nano-pits on GaAs (1 0 0) surface: Preferential sputtering and diffusion. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 379, 52-56	1.2	4
169	Thermoelectric properties of GaN with carrier concentration modulation: an experimental and theoretical investigation. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 1601-1609	3.6	4



168	Synthesis of sponge-like hydrophobic NiBi <sub>3</sub> surface by 200 keV Ar ion implantation. <i>Applied Surface Science</i> , <b>2017</b> , 410, 519-524	6.7	3
167	Interface mediated enhanced mixing of multilayered Ni-Bi thin films by swift heavy ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2017</b> , 409, 314-317	1.2	3
166	Probing defect driven tunable spontaneous magnetization in paramagnetic Zn <sub>0.95</sub> Co <sub>0.05</sub> O epitaxial films by X-ray absorption investigations. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 649, 891-898	5.7	3
165	Formation of Anisotropic Nanostructures on Rutile TiO <sub>2</sub> (110) Surfaces and Their Photo-Absorption Properties. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2018</b> , 49, 3117-3121	2.3	3
164	Radiation stability of CBD grown nanocrystalline CdS films against ion beam irradiation for solar cell applications. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 11013-11019	2.1	3
163	Effects of 200 MeV silver ion irradiation on the optical properties of gallium phosphide. <i>Radiation Effects and Defects in Solids</i> , <b>2013</b> , 168, 564-570	0.9	3
162	Complex damage distribution behaviour in cobalt implanted rutile TiO <sub>2</sub> (1 1 0) lattice. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2017</b> , 410, 114-121	1.2	3
161	Development of NTD Ge sensors for low temperature thermometry <b>2014</b> ,		3
160	Tailoring Structural Properties of Polyethylene Terephthalate (PET) by 200 keV Ar <sup>+</sup> Implantation. <i>Advanced Materials Research</i> , <b>2013</b> , 665, 221-226	0.5	3
159	The effect of the dc bias voltage on the x-ray bremsstrahlung and beam intensities of medium and highly charged ions of argon. <i>Review of Scientific Instruments</i> , <b>2010</b> , 81, 02A323	1.7	3
158	Lattice Defect Induced Ferromagnetism In Implanted ZnO Single Crystal <b>2010</b> ,		3
157	Room temperature ferromagnetism in Ni-doped HfO <sub>2</sub> thin films. <i>Journal Physics D: Applied Physics</i> , <b>2010</b> , 43, 305003	3	3
156	Effects of the swift iron ions in indium phosphide. <i>Surface and Coatings Technology</i> , <b>2009</b> , 203, 2637-2641	4.4	3
155	Ion beam induced modification in GeO <sub>x</sub> thin films: A phase separation study. <i>Surface and Coatings Technology</i> , <b>2009</b> , 203, 2415-2417	4.4	3
154	The effect of swift heavy ion irradiation on critical current density in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> thick film with Y <sub>2</sub> O <sub>3</sub> addition. <i>Radiation Effects and Defects in Solids</i> , <b>2011</b> , 166, 635-639	0.9	3
153	SWIFT HEAVY ION INDUCED NANOHILL FORMATION ON THE SURFACE OF GaP. <i>International Journal of Nanoscience</i> , <b>2011</b> , 10, 105-109	0.6	3
152	Selective disorder in the CuO basal planes of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> by swift heavy ion induced secondary electrons. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2010</b> , 268, 3325-3330	1.2	3
151	Optical and electrical characteristics of GaAs implanted with high energy (70MeV) <sup>120</sup> Sn ions. <i>Vacuum</i> , <b>1997</b> , 48, 961-964	3.7	3

150	Effects of grain boundaries and columnar defects on magnetic hysteresis of Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+y</sub> crystals. <i>Solid State Communications</i> , <b>1997</b> , 101, 367-369	1.6	3
149	Development of Ge nanoparticles embedded in GeO <sub>2</sub> matrix. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2008</b> , 8, 4081-5	1.3	3
148	Formation of TiO <sub>2</sub> nanorings due to rapid thermal annealing of swift heavy ion irradiated films. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2008</b> , 8, 4387-94	1.3	3
147	A large acceptance analysing magnet for HTS-ECR source. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2007</b> , 583, 219-227	1.2	3
146	Elastic recoil detection (ERD) analysis of GeO <sub>x</sub> thin films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2008</b> , 266, 1697-1700	1.2	3
145	Mössbauer study of ferromagnetic metallic glasses irradiated by swift heavy ions at temperatures 100 and 300 K. <i>Hyperfine Interactions</i> , <b>2008</b> , 184, 185-193	0.8	3
144	Tuning magnetic properties of Co/Pt thin films using energetic ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2008</b> , 266, 1542-1547	1.2	3
143	Swift ion irradiation effects on L-threonine amino acid single crystals. <i>Journal of Physics Condensed Matter</i> , <b>2007</b> , 19, 466108	1.8	3
142	Surface roughening in Si <sub>1-x</sub> Ge <sub>x</sub> alloy films by 100 MeV Au: Composition dependency. <i>Solid State Communications</i> , <b>2006</b> , 139, 531-536	1.6	3
141	Sample curvature and dislocation density studies on ion-implanted GaAs by x-ray diffraction. <i>Semiconductor Science and Technology</i> , <b>2003</b> , 18, 404-408	1.8	3
140	Modification of magnetic anisotropy in metallic glasses using high-energy ion beam irradiation <b>2002</b> , 58, 1093-1100		3
139	Effect of heavy ion irradiation in RbKBrCl quaternary system: EPR study of radiation induced defects. <i>Radiation Effects and Defects in Solids</i> , <b>2001</b> , 154, 141-149	0.9	3
138	140 MeV Si-ION IRRADIATION INDUCED T <sub>c</sub> ENHANCEMENT IN YBCO THIN FILMS. <i>Modern Physics Letters B</i> , <b>1999</b> , 13, 79-87	1.6	3
137	1/f Noise properties of swift heavy ion irradiated epitaxial thin films of YBCO. <i>Bulletin of Materials Science</i> , <b>1999</b> , 22, 251-255	1.7	3
136	X-ray, resistivity and AC susceptibility studies of 100 MeV oxygen ion irradiated polycrystalline Bi-2223. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 156, 58-63	1.2	3
135	Effect of 50 and 80 MeV phosphorous ions on the contribution of interface and oxide state density in n-channel MOSFETs. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 156, 116-120	1.2	3
134	Calibration of the energy analyzing magnet of the NSC Pelletron using a differential time of flight technique. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1996</b> , 371, 351-354	1.2	3
133	Low temperature conductivity of irradiated amorphous conducting carbon. <i>Vacuum</i> , <b>1996</b> , 47, 1281-1283.7		3

132	Surface morphology and optical properties of MeV-energy heavy-ion irradiated crystalline Si and crystalline Ge: Possibility of formation of porous material. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , <b>1996</b> , 74, 751-775		3
131	Controlled generation of photoemissive defects in 4H-SiC using swift heavy ion irradiation. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 245905	2.5	3
130	Structural and antibacterial properties of a $\gamma$ radiation-assisted, in situ prepared silver polycarbonate matrix. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133,	2.9	3
129	Characterization of Neutron Transmutation Doped (NTD) Ge for low temperature sensor development. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 345, 33-36	1.2	2
128	Nanocrystalline SnO <sub>2</sub> formation by oxygen ion implantation in tin thin films. <i>Materials Research Express</i> , <b>2018</b> , 5, 035015	1.7	2
127	Formation of luminescent Si nanocrystals by ion irradiation. <i>Surface and Coatings Technology</i> , <b>2016</b> , 306, 295-298	4.4	2
126	Investigation of C <sub>60</sub> and C <sub>70</sub> fullerenes under low energy ion impact. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 14762-14773	2.1	2
125	Defects mediated diffusion in Pt/Co/Pt multilayers induced by dense electronic excitations. <i>Current Applied Physics</i> , <b>2014</b> , 14, 455-461	2.6	2
124	Swift Heavy Ion irradiation induced nanocrystallisation in Te/Cd/Te trilayer thin films. <i>Thin Solid Films</i> , <b>2017</b> , 636, 403-411	2.2	2
123	Effects of passage of 200 MeV Ag <sup>9+</sup> ions in indium phosphide at different depths. <i>Radiation Effects and Defects in Solids</i> , <b>2015</b> , 170, 690-695	0.9	2
122	Piezoelectric actuator based phase locking system to improve the dynamics of the control scheme for a heavy ion superconducting linac. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2015</b> , 777, 123-130	1.2	2
121	100 MeV Si <sup>7+</sup> Ion Irradiation Induced Modifications in Electrical Characteristics of Si Photo Detector: An In-Situ Reliability Study. <i>Journal of Materials Science Research</i> , <b>2014</b> , 3,	1	2
120	Studies on the effect of the axial magnetic field on the x-ray bremsstrahlung in a 2.45 GHz permanent magnet microwave ion source. <i>Review of Scientific Instruments</i> , <b>2014</b> , 85, 02C103	1.7	2
119	White and UV Emission from Swift Ion Irradiation Modified Zinc Oxide-Porous Silicon Nanocomposite through Cathodoluminescence Spectroscopy. <i>Physics Procedia</i> , <b>2012</b> , 29, 12-17		2
118	Study of Electrical Conductivity of Kr <sup>+</sup> Ion implanted Polycarbonate in Relation to Carbon Structure <b>2011</b> ,		2
117	Opto-chemical response of Makrofol-KG to swift heavy ion irradiation <b>2011</b> , 77, 707-714		2
116	Enhancement of stiffness of vertically standing Si nanosprings by energetic ions. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 094315	2.5	2
115	Effect of swift heavy ion (SHI) irradiation on nitrogen ion implanted silicon. <i>Surface and Coatings Technology</i> , <b>2009</b> , 203, 2651-2653	4.4	2

114	In-situ current-voltage analysis of Au/GaAs Schottky diode under nitrogen ion irradiation. <i>Surface and Coatings Technology</i> , <b>2009</b> , 203, 2667-2669	4.4	2
113	Structural and optical studies of GaSb implanted with iron ions. <i>Surface and Coatings Technology</i> , <b>2009</b> , 203, 2670-2673	4.4	2
112	Charge state distribution studies of SrF <sub>3</sub> , MnF <sub>3</sub> and CaF <sub>3</sub> molecules using single and double stripping in a Tandem accelerator. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2011</b> , 269, 1986-1991	1.3	2
111	Effect of Ar <sup>+</sup> Ion Implantation on Electrical Conductivity of Polycarbonate <b>2011</b> ,		2
110	Effects of SHI irradiation on the critical current density of Y <sub>1-x</sub> Ca <sub>x</sub> Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> thick film with Y <sub>2</sub> O <sub>3</sub> composite. <i>Radiation Effects and Defects in Solids</i> , <b>2011</b> , 166, 615-620	0.9	2
109	Dependence of Schottky Barrier Height on Metal Work Function <b>2011</b> ,		2
108	Effect of source tuning parameters on the plasma potential of heavy ions in the 18 GHz high temperature superconducting electron cyclotron resonance ion source. <i>Review of Scientific Instruments</i> , <b>2012</b> , 83, 033301	1.7	2
107	Adhesion improvement of diamond and other films after MeV ion irradiation. <i>Vacuum</i> , <b>1997</b> , 48, 999-1003	3.7	2
106	Point Defects Creation by Swift Heavy Ion Irradiation Induced Low Energy Electrons in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> through Dissociative Recombination <b>2008</b> ,		2
105	Change in magnetic properties of MgB <sub>2</sub> thin films after irradiation by 200 MeV Au ion beam. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2007</b> , 263, 414-418	1.2	2
104	Swift heavy ion induced single event upsets in high density UV-EPROM. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2008</b> , 266, 1729-1733	1.2	2
103	Enhancement of critical current density of MgB <sub>2</sub> thin films irradiated with 200 MeV Au ions. <i>Superconductor Science and Technology</i> , <b>2006</b> , 19, 1047-1050	3.1	2
102	Depth distribution of carrier lifetime in 65MeV oxygen ion irradiated silicon wafers. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2006</b> , 244, 161-165	1.2	2
101	Surface modifications in single crystal surfaces of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> upon high energy ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2006</b> , 244, 120-123	1.2	2
100	Synthesis of surface alloy by nanomixing. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2006</b> , 244, 60-63	1.2	2
99	Composition dependent structural modification in relaxed Si <sub>1-x</sub> Gex films by 100MeV Au beam. <i>Solid State Communications</i> , <b>2006</b> , 137, 371-375	1.6	2
98	Effect of irradiation by 100MeV <sup>58</sup> Ni <sup>+8</sup> ion on quasicrystalline thin films. <i>Vacuum</i> , <b>2002</b> , 68, 349-355	3.7	2
97	First High Temperature Superconducting ECRIS. <i>AIP Conference Proceedings</i> , <b>2005</b> ,	0	2

96	Annealing effects on electrical characteristics of 100 MeV <sup>28</sup> Si implantation in GaAs. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2000</b> , 11, 439-443	2.1	2
95	Carbon cluster studies using the NSC Pelletron. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1996</b> , 382, 343-347 <sup>1.2</sup>		2
94	A novel operation mode of a tandem electrostatic accelerator for producing low energy ion beams. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1994</b> , 348, 13-14	1.2	2
93	Dynamic Stark splitting in two-photon resonance fluorescence. <i>Optics Communications</i> , <b>1983</b> , 45, 43-45	2	2
92	In-Situ X-Ray Diffraction Study of the Evolution of NiO Microstructure Under 120 MeV Au Ion Irradiation. <i>Advanced Science Letters</i> , <b>2014</b> , 20, 607-611	0.1	2
91	Swift Heavy Ion Beam-induced Recrystallisation of Buried Silicon Nitride Layer. <i>Defence Science Journal</i> , <b>2009</b> , 59, 351-355	1.4	2
90	Ge nanoparticles based MOS structure and their Raman characterization. <i>EPJ Applied Physics</i> , <b>2007</b> , 38, 27-30	1.1	2
89	Anomalous behavior in temporal evolution of ripple wavelength under medium energy Ar <sup>+</sup> -ion bombardment on Si: A case of initial wavelength selection. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 225301 <sup>2.5</sup>		2
88	Dynamics of surface evolution of rutile TiO <sub>2</sub> (110) after ion irradiation. <i>Radiation Effects and Defects in Solids</i> , <b>2019</b> , 174, 182-193	0.9	2
87	Wide range temperature-dependent (80-300 K) study of Hall effect and the Seebeck coefficient of EGa <sub>2</sub> O <sub>3</sub> single crystals. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 062102	3.4	2
86	Thermal annealing and transient electronic excitations induced interfacial and magnetic effects on Pt/Co/Pt trilayer. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2018</b> , 420, 50-56	1.2	2
85	A fast response, low heat generating activation method for LHe level sensors. <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 065001	1.7	2
84	Silicon negative ion implantation induced vacancy defects in thermally grown SiO <sub>2</sub> thin films. <i>Radiation Effects and Defects in Solids</i> , <b>2020</b> , 175, 695-703	0.9	1
83	Single phase formation of Fe-doped directional ZnO nanorod films: Study of cluster formation by complex impedance spectroscopy and removal of metal clustering by swift heavy ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2020</b> , 467, 73-79	1.2	1
82	Scaling studies of self-affine nanopatterned TiO <sub>2</sub> surfaces created via ion implantation. <i>Thin Solid Films</i> , <b>2017</b> , 639, 145-151	2.2	1
81	Enhancement in visible luminescence from nanocomposite ZnO-SiO <sub>x</sub> thin films due to annealing. <i>Functional Materials Letters</i> , <b>2014</b> , 07, 1450007	1.2	1
80	Effects of Li and Au ion beams irradiation on Makrofol-KG. <i>Radiation Effects and Defects in Solids</i> , <b>2013</b> , 168, 580-586	0.9	1
79	Template-Based Synthesis of Nano/Micro Structures on a Semiconducting Substrate. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , <b>2013</b> , 62, 91-94	3	1

78	Influence of 150MeV Ni <sup>11+</sup> swift heavy ion irradiation on CuFe <sub>2</sub> O <sub>4</sub> thin films prepared by radio frequency magnetron sputtering: Modification on structure and surface morphology. <i>Thin Solid Films</i> , <b>2011</b> , 520, 204-211	2.2	1
77	The role of electronic energy loss in PET polymer. <i>Radiation Effects and Defects in Solids</i> , <b>2011</b> , 166, 621-627		1
76	Mesoscopic inhomogeneity creation in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> thin film by swift heavy ion irradiation at low temperature. <i>Radiation Effects and Defects in Solids</i> , <b>2011</b> , 166, 628-634	0.9	1
75	EFFECT OF SWIFT HEAVY ION IRRADIATION ON THE STRUCTURAL AND MORPHOLOGICAL ASPECTS OF COPPER FERRITE NANOPARTICLES. <i>International Journal of Nanoscience</i> , <b>2011</b> , 10, 111-115 <sup>0.6</sup>		1
74	Study of Electrical Properties in SHI Irradiated 6H-SiC Crystals using Low Temperature Impedance Spectroscopy <b>2011</b> ,		1
73	Slow Highly Charged Ions by Electrostatic Deceleration. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 142006	0.3	1
72	Formation of semiconductor nanostructures by dense electronic excitation. <i>International Journal of Nanotechnology</i> , <b>2009</b> , 6, 456	1.5	1
71	Recharging processes, radiation induced strain and changes of OH bands under H <sup>+</sup> ion implantation in Ti doped lithium niobate. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2010</b> , 268, 172-177	1.2	1
70	Defect dynamics studies in ion irradiated cuprate superconductors. <i>Vacuum</i> , <b>1997</b> , 48, 973-978	3.7	1
69	Electrical effects in MeV energy ion-irradiated As <sub>2</sub> Se <sub>3</sub> glass. <i>Vacuum</i> , <b>1997</b> , 48, 969-972	3.7	1
68	High energy ion implantation induced electrical effects in bulk amorphous As <sub>2</sub> Se <sub>3</sub> . <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1998</b> , 140, 349-360	1.2	1
67	Investigations of the Electrical and Structural Characteristics of 50 MeV <sup>7</sup> Li Implanted Si-InP. <i>Physica Status Solidi A</i> , <b>1998</b> , 167, 157-163		1
66	Effects of columnar defects on a.c. susceptibility of Bi <sub>2</sub> Sr <sub>2</sub> Ca <sub>1</sub> Cu <sub>2</sub> O <sub>x</sub> single crystals. <i>Solid State Communications</i> , <b>1998</b> , 106, 611-615	1.6	1
65	Suppressed rf dissipation in <sup>107</sup> Ag <sup>17+</sup> ion irradiated Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> single crystals by enhanced flux line tilt modulus. <i>Applied Physics Letters</i> , <b>1998</b> , 72, 2325-2327	3.4	1
64	Photoluminescence of Tris-(8-hydroxyquinoline)aluminum Thin Films and Influence of Swift Heavy Ion Irradiation. <i>Polymer-Plastics Technology and Engineering</i> , <b>2008</b> , 47, 479-482		1
63	Thermoluminescence of silica-based materials irradiated by thermal neutrons. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 065103	3	1
62	Setup for in situ deep level transient spectroscopy of semiconductors during swift heavy ion irradiation. <i>Review of Scientific Instruments</i> , <b>2008</b> , 79, 056103	1.7	1
61	Influence of SHI irradiation on the formation of buried SiC. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2007</b> , 260, 563-566	1.2	1

60	Photoacoustic spectroscopy of Ni <sup>+</sup> -implanted quartz. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2008</b> , 266, 1229-1234	1.2	1
59	Study of swift (100 MeV) Fe <sup>9+</sup> ion irradiated gallium antimonide. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2008</b> , 266, 1764-1767	1.2	1
58	Effect of crystallinity on the memory effect of Ge nanocrystals synthesized by atom beam sputtering. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2008</b> , 266, 63-66	1.2	1
57	Impact of 100MeV Au on the surface of relaxed Si <sub>0.5</sub> Ge <sub>0.5</sub> alloy films studied by atomic force microscopy. <i>Surface Science</i> , <b>2006</b> , 600, 3087-3092	1.8	1
56	Swift heavy ion irradiation-induced modifications of tris-(8-hydroxyquinoline)aluminum thin films. <i>Radiation Effects and Defects in Solids</i> , <b>2006</b> , 161, 695-700	0.9	1
55	A setup for probing collisions of highly charged ions with liquid droplets. <i>Review of Scientific Instruments</i> , <b>2004</b> , 75, 5094-5099	1.7	1
54	Variation of electrical resistance in metallic glasses subjected to 130 MeV 28Si ion irradiation. <i>Physica Status Solidi A</i> , <b>2004</b> , 201, 536-542		1
53	New modifications in 15 UD pelletron at nuclear science centre <b>2002</b> , 59, 753-759		1
52	Peak effect at microwave frequencies in swift heavy ion irradiated YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> thin films <b>2002</b> , 58, 949-954		1
51	AC response of vortices subjected to pinning by columnar defects in Tl <sub>2</sub> Ba <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> epitaxial films. <i>Physica C: Superconductivity and Its Applications</i> , <b>2002</b> , 383, 8-16	1.3	1
50	Dose dependence and annealing behaviour of radiation-induced defects in 70MeV <sup>56</sup> Fe implanted GaAs. <i>Radiation Measurements</i> , <b>2003</b> , 36, 681-684	1.5	1
49	Electrical characteristics of high energy 120Sn implantation in p-type GaAs. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 156, 78-83	1.2	1
48	Single-gap multi-harmonic buncher for NSC pelletron <b>1999</b> ,		1
47	TEM investigation of Ni <sub>4</sub> Mo LRO and SRO after MeV ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1995</b> , 100, 191-195	1.2	1
46	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>1995</b> , 5, 1428-1431	1.8	1
45	Sputter emission of negatively charged carbon clusters. <i>Radiation Effects and Defects in Solids</i> , <b>1996</b> , 138, 145-152	0.9	1
44	Persistent photoconductivity on ion irradiated carbon films prepared by plasma assisted chemical vapor deposition and determination of traps in the pseudo-gap region. <i>Applied Physics Letters</i> , <b>1996</b> , 68, 2079-2081	3.4	1
43	Congenital adrenal hyperplasia in monozygotic twins with variable clinical manifestations. <i>Japanese Journal of Human Genetics</i> , <b>1989</b> , 34, 231-4		1

42	Recovery of ion-damaged 4H-SiC under thermal and ion beam-induced ultrafast thermal spike-assisted annealing. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 165901	2.5	1
41	Studies of SiO <sub>2</sub> thin films implanted with 100keV silicon ions. <i>Materials Today: Proceedings</i> , <b>2020</b> , 23, 345-351	1.4	0
40	Performance of cryocoolers in a High Temperature Superconducting ECR ion source (HTS-ECR) and its application for the High Current Injector Programme at IUAC, New Delhi. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 171, 012069	0.4	0
39	Disorder induced conductivity enhancement in SHI irradiated undoped and N-doped 6H-SiC single crystals. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 11825-11833	2.1	0
38	100 MeV silver ions induced defects and modifications in silica glass. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 331, 149-156	1.2	0
37	Final Commissioning of the Superconducting Heavy Ion Linear Accelerator at IUAC, Delhi. <i>Physics Procedia</i> , <b>2015</b> , 67, 802-808		0
36	Nano/micro structure synthesis on semiconducting substrate and their characterization. <i>Superlattices and Microstructures</i> , <b>2011</b> , 50, 713-721	2.8	0
35	Low temperature dielectric study on swift heavy ion irradiated 6H-SiC crystals. <i>Transactions of the Indian Institute of Metals</i> , <b>2011</b> , 64, 305-308	1.2	0
34	Thickness effect on scaling law and surface properties of nano-dimensional SnTe thin films. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 175306	2.5	0
33	Resistive switching properties and photoabsorption behavior of Ti ion implanted ZnO thin films. <i>Ceramics International</i> , <b>2021</b> , 48, 3303-3303	5.1	0
32	Design and development of a compact ion implanter and plasma diagnosis facility based on a 2.45GHz microwave ion source. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 053306	1.7	0
31	Aspects of ions induced texture evolution on Ge surface: A statistical assessment. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2017</b> , 409, 181-186	1.2	
30	Effects of silicon negative ion implantation in semi-insulating gallium arsenide. <i>Radiation Effects and Defects in Solids</i> , <b>2019</b> , 174, 636-646	0.9	
29	Improvement of accelerating gradients in niobium quarter wave resonators. <i>Superconductor Science and Technology</i> , <b>2019</b> , 32, 095003	3.1	
28	Surface evolution of NiO thin film under 800 keV Ar <sup>8+</sup> ion irradiation. <i>Indian Journal of Physics</i> , <b>2014</b> , 88, 691-694	1.4	
27	Ion beam-assisted template synthesis of nanowires on semiconducting substrate. <i>Radiation Effects and Defects in Solids</i> , <b>2013</b> , 168, 477-483	0.9	
26	A Differential Temperature-Dependent Dielectric Relaxation Study of Organoclay Cloisite( <sup>TM</sup> ). <i>International Journal of Thermophysics</i> , <b>2017</b> , 38, 1	2.1	
25	Role of ion beam excitations on quasi one-dimensional magnetic system of Mn-doped LiCuVO <sub>4</sub> . <i>Materials Chemistry and Physics</i> , <b>2015</b> , 161, 19-25	4.4	



24	The direct injection of intense ion beams from a high field electron cyclotron resonance ion source into a radio frequency quadrupole. <i>Review of Scientific Instruments</i> , <b>2014</b> , 85, 02A740	1.7
23	Ion erosion induced nanostructured semiconductor surfaces. <i>International Journal of Nanotechnology</i> , <b>2012</b> , 9, 1007	1.5
22	Electric field distribution and simulation of avalanche formation due to the passage of heavy ions in a parallel grid avalanche counter <b>2009</b> , 72, 833-844	
21	STRUCTURAL CHARACTERISTICS OF 70 MeV Si <sup>5+</sup> ION IRRADIATION INDUCED NANOCCLUSERS OF GALLIUM NITRIDE. <i>International Journal of Nanoscience</i> , <b>2011</b> , 10, 823-826	0.6
20	Synthesis of embedded Si nano-particles using swift heavy ions and its optical properties. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1455, 19	
19	Field emission and I-V characteristics of template synthesised nickel nanowires on semiconducting substrate. <i>Journal of Experimental Nanoscience</i> , <b>2012</b> , 7, 150-159	1.9
18	Design of the low energy beam transport section of the high current injector. <i>Physics Procedia</i> , <b>2008</b> , 1, 105-111	
17	Nanostructuring of InP surface by low-energy ion beam irradiation. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2007</b> , 7, 2046-50	1.3
16	Effect of swift heavy ion irradiation on surface resistance of DyBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> thin films at microwave frequencies <b>2002</b> , 58, 959-963	
15	The non-linear dynamics of vortices subjected to correlated and random pinning disorders in a quasi-2D superconductor <b>2002</b> , 58, 965-969	
14	STM/STS studies of BiO layers of Pb doped Bi-2223 superconductors irradiated by 100MeV oxygen ion. <i>Solid State Communications</i> , <b>2002</b> , 123, 117-122	1.6
13	In situ resistivity studies of 200MeV 107Ag <sup>14+</sup> -ion irradiated n-GaAs epitaxial layers. <i>Vacuum</i> , <b>2002</b> , 65, 39-43	3.7
12	Anomalous ac susceptibility behaviour in ion-irradiated YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> epitaxial thin films. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , <b>1998</b> , 77, 1669-1680	
11	Effect of sample temperature on the irradiation effects of energetic particles in the YBCO system. <i>Vacuum</i> , <b>1995</b> , 46, 227-228	3.7
10	Diffusion Assisted Defect Annealing Studies in High Energy Heavy Ion Irradiated Cuprates. <i>Materials Science Forum</i> , <b>1996</b> , 223-224, 187-192	0.4
9	Persistent Photoconductivity Study on Ion Irradiated Carbon Films. <i>Materials Research Society Symposia Proceedings</i> , <b>1995</b> , 396, 291	
8	Vibrational analysis of the emission and transient absorption bands of Br <sub>2</sub> in the region 2950-2410 cm <sup>-1</sup> . <i>Journal of Molecular Structure</i> , <b>1988</b> , 190, 307-325	3.4
7	Degradation of GaN Conductivity Under Irradiation with Swift Ions. <i>Springer Proceedings in Physics</i> , <b>2021</b> , 141-149	0.2

- 6 Electronic-Excitation-Induced Enhancement in Metallicity on HOPG and Si Surfaces: In Situ STM/STS Studies. *Lecture Notes in Physics*, **2002**, 269-277 0.8
- 5 Mössbauer study of ferromagnetic metallic glasses irradiated by swift heavy ions at temperatures 100 and 300 K **2008**, 599-607
- 4 Swift heavy ion beam stimulated epitaxial recrystallization of Si/SiO<sub>2</sub> heterostructure. *Materials Letters*, **2022**, 308, 131153 3.3
- 3 Vortex Correlation in Bi<sub>2</sub>Sr<sub>2</sub>Ca<sub>1</sub>Cu<sub>2</sub>O<sub>x</sub> Single Crystals with Columnar Defects **1998**, 91-94
- 2 Melting transition in Bi-2212 crystals in the presence of point and columnar defects **1998**, 521-524
- 1 Low energy argon ion irradiation effect on magnetic behavior of polycrystalline Cu substituted ZnO. *Materials Today: Proceedings*, **2021**, 35, 79-81 1.4