

Dinakar Kanjilal

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Swift heavy ion beam stimulated epitaxial recrystallization of Si/SiO ₂ heterostructure. <i>Materials Letters</i> , 2022 , 308, 131153	3.3	0
580	Thickness effect on scaling law and surface properties of nano-dimensional SnTe thin films. <i>Journal of Applied Physics</i> , 2021 , 130, 175306	2.5	0
579	Degradation of GaN Conductivity Under Irradiation with Swift Ions. <i>Springer Proceedings in Physics</i> , 2021 , 141-149	0.2	0
578	Resistive switching properties and photoabsorption behavior of Ti ion implanted ZnO thin films. <i>Ceramics International</i> , 2021 , 48, 3303-3303	5.1	0
577	Recovery of ion-damaged 4H-SiC under thermal and ion beam-induced ultrafast thermal spike-assisted annealing. <i>Journal of Applied Physics</i> , 2021 , 130, 165901	2.5	1
576	Reversible hydrogen control of antiferromagnetic anisotropy in FeO. <i>Nature Communications</i> , 2021 , 12, 1668	17.4	13
575	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> , 2021 , 92, 053306	1.7	0
574	Controlled generation of photoemissive defects in 4H-SiC using swift heavy ion irradiation. <i>Journal of Applied Physics</i> , 2021 , 129, 245905	2.5	3
573	Low energy argon ion irradiation effect on magnetic behavior of polycrystalline Cu substituted ZnO. <i>Materials Today: Proceedings</i> , 2021 , 35, 79-81	1.4	0
572	Thermoelectric properties of GaN with carrier concentration modulation: an experimental and theoretical investigation. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 1601-1609	3.6	4
571	Wide range temperature-dependent (80-300 K) study of Hall effect and the Seebeck coefficient of BiGa ₂ O ₃ single crystals. <i>Applied Physics Letters</i> , 2021 , 118, 062102	3.4	2
570	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> , 2021 , 129, 045301	2.5	5
569	Silicon negative ion implantation induced vacancy defects in thermally grown SiO ₂ thin films. <i>Radiation Effects and Defects in Solids</i> , 2020 , 175, 695-703	0.9	1
568	Studies of SiO ₂ thin films implanted with 100keV silicon ions. <i>Materials Today: Proceedings</i> , 2020 , 23, 345-351	1.4	0
567	Dynamic Surface evolution and scaling studies on TiO ₂ thin films by Ti ion implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020 , 474, 68-73	1.2	4
566	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 & Methods in Physics Research B</i> , 2020 , 467, 73-79	1.2	1
565	An assessment on crystallization phenomena of Si in Al/a-Si thin films thermal annealing and ion irradiation.. <i>RSC Advances</i> , 2020 , 10, 4414-4426	3.7	4

564	Crystallization of Ge in ion-irradiated amorphous-Ge/Au thin films. <i>CrystEngComm</i> , 2020 , 22, 666-677	3.3	4
563	Swift heavy ion irradiation-induced modifications in the electrical and surface properties of EGa ₂ O ₃ . <i>Applied Physics Letters</i> , 2020 , 117, 142105	3.4	7
562	Intense ionizing irradiation-induced atomic movement toward recrystallization in 4H-SiC. <i>Journal of Applied Physics</i> , 2020 , 128, 165901	2.5	8
561	Aluminum induced crystallization of amorphous Si: Thermal annealing and ion irradiation process. <i>Journal of Non-Crystalline Solids</i> , 2019 , 523, 119628	3.9	8
560	AMS and upcoming geochronology facility at Inter University Accelerator Centre (IUAC), New Delhi, India. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019 , 438, 124-130	1.2	29
559	Effects of silicon negative ion implantation in semi-insulating gallium arsenide. <i>Radiation Effects and Defects in Solids</i> , 2019 , 174, 636-646	0.9	
558	Improvement of accelerating gradients in niobium quarter wave resonators. <i>Superconductor Science and Technology</i> , 2019 , 32, 095003	3.1	
557	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> , 2019 , 90, 104901	1.7	6
556	Dynamics of surface evolution of rutile TiO ₂ (110) after ion irradiation. <i>Radiation Effects and Defects in Solids</i> , 2019 , 174, 182-193	0.9	2
555	Influence of post-deposition annealing on structural, optical and transport properties of nanocomposite ZnO-Ag thin films. <i>Materials Science in Semiconductor Processing</i> , 2018 , 81, 22-29	4.3	16
554	Nanocrystalline SnO ₂ formation by oxygen ion implantation in tin thin films. <i>Materials Research Express</i> , 2018 , 5, 035015	1.7	2
553	Formation of Anisotropic Nanostructures on Rutile TiO ₂ (110) Surfaces and Their Photo-Absorption Properties. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 3117-3121	2.3	3
552	Mechanistic insights into the interaction between energetic oxygen ions and nanosized ZnFeO: XAS-XMCD investigations. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 12084-12096	3.6	14
551	Clustered vacancies in ZnO: chemical aspects and consequences on physical properties. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 105107	3	26
550	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> , 2018 , 29, 11013-11019	2.1	3
549	500 keV Ar ²⁺ ion irradiation induced anatase to brookite phase transformation and ferromagnetism at room temperature in TiO ₂ thin films. <i>Applied Surface Science</i> , 2018 , 428, 723-729	6.7	20
548	Investigation of C ₆₀ and C ₇₀ fullerenes under low energy ion impact. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 14762-14773	2.1	2
547	Conductivity and dielectric studies of Li ³⁺ -irradiated PVP-based polymer electrolytes. <i>High Performance Polymers</i> , 2018 , 30, 978-985	1.6	5

546	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> , 2018 , 33, 085008	1.8	8
545	In-situ transport and microstructural evolution in GaN Schottky diodes and epilayers exposed to swift heavy ion irradiation. <i>Journal of Applied Physics</i> , 2018 , 123, 161539	2.5	10
544	The effect of Ti ⁺ ion implantation on the anatase-rutile phase transformation and resistive switching properties of TiO ₂ thin films. <i>Journal of Applied Physics</i> , 2018 , 124, 155303	2.5	9
543	Thermal annealing and transient electronic excitations induced interfacial and magnetic effects on Pt/Co/Pt trilayer. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2018 , 420, 50-56	1.2	2
542	A fast response, low heat generating activation method for LHe level sensors. <i>Review of Scientific Instruments</i> , 2018 , 89, 065001	1.7	2
541	Microstructural and surface morphological studies on Co doped ZnS diluted magnetic semiconductor thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 13541-13550	2.1	11
540	Electronic structure of magnetic Fe/MgO/Fe/Co multilayer structure by NEXAFS spectroscopy. <i>Vacuum</i> , 2017 , 138, 48-54	3.7	11
539	Correlation between magnetic and micro-structural properties of low energy ion irradiated and un-irradiated Zn _{0.95} Mn _{0.05} O films. <i>RSC Advances</i> , 2017 , 7, 771-781	3.7	17
538	Synthesis of sponge-like hydrophobic NiBi ₃ surface by 200 keV Ar ion implantation. <i>Applied Surface Science</i> , 2017 , 410, 519-524	6.7	3
537	Facile synthesis of KCl:Sm ³⁺ nanophosphor as a new OSL dosimetric material achieved through charge transfer between the defect states. <i>RSC Advances</i> , 2017 , 7, 13836-13845	3.7	20
536	The influence of carbon concentration on the electronic structure and magnetic properties of carbon implanted ZnO thin films. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 13316-13323	3.6	9
535	Aspects of ions induced texture evolution on Ge surface: A statistical assessment. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017 , 409, 181-186	1.2	
534	Modifications in room temperature ferromagnetism by dense electronic excitations in Zn _{0.9} Mg _{0.1} O thin films. <i>Journal of Alloys and Compounds</i> , 2017 , 710, 831-835	5.7	4
533	Interface mediated enhanced mixing of multilayered Ni-Bi thin films by swift heavy ion irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017 , 409, 314-317	1.2	3
532	Controlled morphological modifications of ZnO thin films by ion irradiation. <i>Materials Research Express</i> , 2017 , 4, 116402	1.7	8
531	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> , 2017 , 171, 012069	0.4	0
530	Complex damage distribution behaviour in cobalt implanted rutile TiO ₂ (1 1 0) lattice. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017 , 410, 114-121	1.2	3
529	Scaling studies of self-affine nanopatterned TiO ₂ surfaces created via ion implantation. <i>Thin Solid Films</i> , 2017 , 639, 145-151	2.2	1

528	Work Function Modulation of Molybdenum Disulfide Nanosheets by Introducing Systematic Lattice Strain. <i>Scientific Reports</i> , 2017 , 7, 9576	4.9	19
527	Evaluation of thermoluminescence of 200 keV carbon ion irradiated CaSO ₄ :Dy nanophosphors for medical dosimetry. <i>Journal of Luminescence</i> , 2017 , 192, 695-700	3.8	7
526	Enhancement of thermopower in GaN by ion irradiation and possible mechanisms. <i>Applied Physics Letters</i> , 2017 , 111, 222102	3.4	6
525	Swift Heavy Ion irradiation induced nanocrystallisation in Te/Cd/Te trilayer thin films. <i>Thin Solid Films</i> , 2017 , 636, 403-411	2.2	2
524	A Differential Temperature-Dependent Dielectric Relaxation Study of Organoclay Cloisite(TM). <i>International Journal of Thermophysics</i> , 2017 , 38, 1	2.1	
523	Low temperature photoluminescence from disordered granular ZnO. <i>Journal of Luminescence</i> , 2016 , 169, 326-333	3.8	22
522	Statistical analysis of ripple morphology on Si surfaces due to 60 keV Ar ⁺ -ions. <i>Surface Topography: Metrology and Properties</i> , 2016 , 4, 015002	1.5	7
521	Anti-biofilm activity of Fe heavy ion irradiated polycarbonate. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016 , 384, 6-13	1.2	11
520	Optical studies of cobalt implanted rutile TiO ₂ (110) surfaces. <i>Applied Surface Science</i> , 2016 , 387, 938-948.	4.7	8
519	Formation of luminescent Si nanocrystals by ion irradiation. <i>Surface and Coatings Technology</i> , 2016 , 306, 295-298	4.4	2
518	Disorder induced conductivity enhancement in SHI irradiated undoped and N-doped 6H-SiC single crystals. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 11825-11833	2.1	0
517	Enhanced surface and interface diffusion in NiBi bilayers by swift heavy ion irradiation. <i>RSC Advances</i> , 2016 , 6, 58950-58956	3.7	6
516	Development and test of 2.45 GHz microwave ion source based intense ion beam experimental facility. <i>Vacuum</i> , 2016 , 124, 55-59	3.7	5
515	Regrowth of Ge with different degrees of damage under thermal and athermal treatment. <i>RSC Advances</i> , 2016 , 6, 4576-4586	3.7	5
514	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> , 2016 , 360, 131-142	6.7	18
513	Structural and antibacterial properties of a γ radiation-assisted, in situ prepared silver/polycarbonate matrix. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	3
512	Effect of cobalt implantation on structural and optical properties of rutile TiO ₂ (110). <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	7
511	Anomalous behavior in temporal evolution of ripple wavelength under medium energy Ar ⁺ -ion bombardment on Si: A case of initial wavelength selection. <i>Journal of Applied Physics</i> , 2016 , 119, 225301	2.5	2

510	Facile synthesis of a superhydrophobic and colossal broadband antireflective nanoporous GaSb surface. <i>RSC Advances</i> , 2016 , 6, 48919-48926	3.7	5
509	Nano-pits on GaAs (1 0 0) surface: Preferential sputtering and diffusion. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016 , 379, 52-56	1.2	4
508	Tunable wettability of Si through surface energy engineering by nanopatterning. <i>RSC Advances</i> , 2016 , 6, 48550-48557	3.7	12
507	Intrinsic defects and structural phase of ZnS nanocrystalline thin films: effects of substrate temperature. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 5640-5645	2.1	5
506	Studies of dense electronic excitation-induced modification in crystalline Fe-doped SnO ₂ thin films. <i>Applied Surface Science</i> , 2015 , 332, 726-735	6.7	25
505	Spontaneous formation of superconducting NiBi ₃ phase in Ni-Bi bilayer films. <i>Journal of Applied Physics</i> , 2015 , 117, 083902	2.5	18
504	Probing defect driven tunable spontaneous magnetization in paramagnetic Zn _{0.95} Co _{0.05} O epitaxial films by X-ray absorption investigations. <i>Journal of Alloys and Compounds</i> , 2015 , 649, 891-898	5.7	3
503	Role of growth temperature on the structural, optical and electrical properties of ZnO thin films. <i>Journal of Alloys and Compounds</i> , 2015 , 649, 1205-1209	5.7	19
502	Room temperature superparamagnetism in rutile TiO ₂ quantum dots produced via ECR sputtering. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015 , 365, 82-85	1.2	13
501	Characterization of Neutron Transmutation Doped (NTD) Ge for low temperature sensor development. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015 , 345, 33-36	1.2	2
500	Structural manipulation in Ge by swift heavy ions governed by electron-phonon coupling strength. <i>Materials Research Express</i> , 2015 , 2, 045903	1.7	10
499	Antibacterial properties of Au doped polycarbonate synthesized by gamma radiation assisted diffusion method. <i>Radiation Physics and Chemistry</i> , 2015 , 112, 97-103	2.5	11
498	Fractal characterization of the silicon surfaces produced by ion beam irradiation of varying fluences. <i>Applied Surface Science</i> , 2015 , 347, 706-712	6.7	29
497	Effect of defects and film thickness on the optical properties of ZnO/Au hybrid films. <i>RSC Advances</i> , 2015 , 5, 40813-40819	3.7	10
496	Carbon Ion Irradiation Damage Effects on Electrical Characteristics of Silicon PNP Power BJTs. <i>IEEE Transactions on Device and Materials Reliability</i> , 2015 , 15, 101-108	1.6	4
495	Influence of substrate temperature on properties of nc ZnO/BiO thin films grown by rf co-sputter deposition. <i>Journal of Alloys and Compounds</i> , 2015 , 639, 511-515	5.7	4
494	Energy-separated sequential irradiation for ripple pattern tailoring on silicon surfaces. <i>Applied Surface Science</i> , 2015 , 357, 184-188	6.7	9
493	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> , 2015 , 17, 22900-10	3.6	29

492	Anomalous spectral-weight transfers unraveling oxygen screening and electronic correlations in the insulator-metal transition of VO ₂ . <i>Physical Review B</i> , 2015 , 91,	3.3	11
491	Corrosion, wettability and thrombogenicity investigation of ion beam modified HAP/Al ₂ O ₃ . <i>Materials Chemistry and Physics</i> , 2015 , 163, 272-278	4.4	7
490	Reduction of graphene oxide by 100 MeV Au ion irradiation and its application as H ₂ O ₂ sensor. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 365105	3	38
489	Swift Heavy Ion Induced Optical and Electronic Modifications of Graphene/TiO ₂ Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 21270-21277	3.8	19
488	Modification of the microstructure and electronic properties of rutile TiO ₂ thin films with 79 MeV Br ion irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015 , 365, 553-559	1.2	8
487	Role of surface and subsurface defects in MgO thin film: XANES and magnetic investigations. <i>Superlattices and Microstructures</i> , 2015 , 77, 313-324	2.8	27
486	Ferromagnetism in Ni doped ZnS thin films: Effects of Ni concentration and swift heavy ion irradiation. <i>Vacuum</i> , 2015 , 111, 150-156	3.7	16
485	Embedded Ge nanocrystals in SiO ₂ synthesized by ion implantation. <i>Journal of Applied Physics</i> , 2015 , 118, 134303	2.5	9
484	Final Commissioning of the Superconducting Heavy Ion Linear Accelerator at IUAC, Delhi. <i>Physics Procedia</i> , 2015 , 67, 802-808		0
483	Role of ion beam excitations on quasi one-dimensional magnetic system of Mn-doped LiCuVO ₄ . <i>Materials Chemistry and Physics</i> , 2015 , 161, 19-25	4.4	
482	A new AMS facility at Inter University Accelerator Centre, New Delhi. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015 , 361, 115-119	1.2	15
481	Defect controlled ferromagnetism in xenon ion irradiated zinc oxide. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 385, 318-325	2.8	21
480	Effects of passage of 200 MeV Ag ⁹⁺ ions in indium phosphide at different depths. <i>Radiation Effects and Defects in Solids</i> , 2015 , 170, 690-695	0.9	2
479	Swift heavy ion irradiation induced microstructural modification and evolution of photoluminescence from Si rich-SiNx:H. <i>Materials Research Express</i> , 2015 , 2, 046204	1.7	5
478	Physical and biological properties of the ion beam irradiated PMMA-based composite films. <i>Applied Surface Science</i> , 2015 , 329, 116-126	6.7	23
477	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> , 2015 , 777, 123-130	1.2	2
476	Native Defects And Optical Properties Of Ar Ion Irradiated ZnO. <i>Advanced Materials Letters</i> , 2015 , 6, 365-369	2.4	4
475	. <i>IEEE Transactions on Device and Materials Reliability</i> , 2014 , 14, 721-725	1.6	8

474	Investigations on structural and optical properties of ZnO and ZnO:Co nanoparticles under dense electronic excitations. <i>RSC Advances</i> , 2014 , 4, 62123-62131	3.7	58
473	Evolution of structural and magnetic properties of Co-doped TiO ₂ thin films irradiated with 100 MeV Ag ⁷⁺ ions. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 315001	3	13
472	Surface evolution of NiO thin film under 800 keV Ar ⁸⁺ ion irradiation. <i>Indian Journal of Physics</i> , 2014 , 88, 691-694	1.4	
471	Enhanced anomalous photo-absorption from TiO ₂ nanostructures. <i>Journal of Applied Physics</i> , 2014 , 115, 124306	2.5	20
470	Influence of thermal annealing and ion irradiation on zinc silicate phases in nanocomposite ZnO:BiOx thin films. <i>Applied Surface Science</i> , 2014 , 317, 1075-1079	6.7	10
469	Medium energy Ar ⁺ -ion induced ripple formation: Role of ion energy in pattern formation. <i>Applied Surface Science</i> , 2014 , 317, 476-479	6.7	8
468	Temporal evolution of nanoporous layer in off-normally ion irradiated GaSb. <i>Journal of Applied Physics</i> , 2014 , 115, 123515	2.5	15
467	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> , 2014 , 587, 733-738	5.7	5
466	Tuning of ripple patterns and wetting dynamics of Si (100) surface using ion beam irradiation. <i>Current Applied Physics</i> , 2014 , 14, 312-317	2.6	29
465	Defects mediated diffusion in Pt/Co/Pt multilayers induced by dense electronic excitations. <i>Current Applied Physics</i> , 2014 , 14, 455-461	2.6	2
464	Electroreflectance study of CuIn _{1-x} Ga _x Se ₂ thin film solar cells. <i>Current Applied Physics</i> , 2014 , 14, 318-321	2.6	5
463	100 MeV silver ions induced defects and modifications in silica glass. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014 , 331, 149-156	1.2	0
462	100 MeV Si ⁷⁺ Ion Irradiation Induced Modifications in Electrical Characteristics of Si Photo Detector: An In-Situ Reliability Study. <i>Journal of Materials Science Research</i> , 2014 , 3,	1	2
461	Evaluation of anti-HIF and anti-angiogenic properties of honokiol for the treatment of ocular neovascular diseases. <i>PLoS ONE</i> , 2014 , 9, e113717	3.7	16
460	Synthesis of Pt nanoparticles and their burrowing into Si due to synergistic effects of ion beam energy losses. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 1864-72	3	5
459	Studies of xenon ECR plasma: search for a better understanding of the gas-mixing and anomalous effects. <i>Plasma Sources Science and Technology</i> , 2014 , 23, 065007	3.5	5
458	Study of ¹⁰ Be in the sediments from the Krossfjorden and Kongsfjorden Fjord System, Svalbard. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014 , 302, 903-909	1.5	8
457	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> , 2014 , 85, 02C103	1.7	2

456	Argon-ion-induced formation of nanoporous GaSb layer: Microstructure, infrared luminescence, and vibrational properties. <i>Journal of Applied Physics</i> , 2014 , 116, 033514	2.5	5
455	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> , 2014 , 85, 02A740	1.7	
454	Teflon impregnated anatase TiO ₂ nanoparticles irradiated by 80 keV Xe ⁺ ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014 , 336, 135-142	1.2	4
453	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> , 2014 , 85, 02A944	1.7	6
452	60 keV Ar ⁺ -ion induced modification of microstructural, compositional, and vibrational properties of InSb. <i>Journal of Applied Physics</i> , 2014 , 116, 143502	2.5	13
451	Enhancement in visible luminescence from nanocomposite ZnO-SiO _x thin films due to annealing. <i>Functional Materials Letters</i> , 2014 , 07, 1450007	1.2	1
450	Engineering strain, densification, order parameter and magnetic properties of FePt thin films by dense electronic excitations. <i>Journal of Applied Physics</i> , 2014 , 116, 083902	2.5	4
449	Dynamics of modification of Ni/n-GaN Schottky barrier diodes irradiated at low temperature by 200 MeV Ag ¹⁴⁺ ions. <i>Applied Physics Letters</i> , 2014 , 104, 033507	3.4	15
448	Development of NTD Ge sensors for low temperature thermometry 2014 ,		3
447	Au ⁹⁺ swift heavy ion irradiation of Zn[CS(NH ₂) ₂] ₃ SO ₄ crystal: Crystalline perfection and optical properties. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014 , 338, 1-7	1.2	10
446	Dense electronic excitation induced modification in TiO ₂ doped SnO ₂ nanocomposite films. <i>Journal of Alloys and Compounds</i> , 2014 , 610, 651-658	5.7	14
445	60 keV Ar ⁺ -ion induced pattern formation on Si surface: Roles of sputter erosion and atomic redistribution. <i>Applied Surface Science</i> , 2014 , 310, 147-153	6.7	16
444	SHI induced enhancement in green emission from nanocrystalline CdS thin films for photonic applications. <i>Journal of Luminescence</i> , 2014 , 147, 184-189	3.8	25
443	Evolution of porous network in GaSb under normally incident 60 keV Ar ⁺ -ion irradiation. <i>Applied Surface Science</i> , 2014 , 310, 189-195	6.7	19
442	In-Situ X-Ray Diffraction Study of the Evolution of NiO Microstructure Under 120 MeV Au Ion Irradiation. <i>Advanced Science Letters</i> , 2014 , 20, 607-611	0.1	2
441	Magnetic, Electronic Structure And Interface Study Of Fe/MgO/Fe Multilayer. <i>Advanced Materials Letters</i> , 2014 , 5, 372-377	2.4	17
440	Effect of SHI irradiation on the morphology of SnO ₂ thin film prepared by reactive thermal evaporation. <i>Vacuum</i> , 2013 , 90, 39-43	3.7	32
439	Effects of 200 MeV silver ion irradiation on the optical properties of gallium phosphide. <i>Radiation Effects and Defects in Solids</i> , 2013 , 168, 564-570	0.9	3

438	Study on the ferromagnetism in Co and N doped ZnO thin films. <i>Current Applied Physics</i> , 2013 , 13, 1547-1553	8
437	Superdeformation and cluster structure in ^{35}Cl . <i>Physical Review C</i> , 2013 , 88,	2.7 16
436	Role of Oxygen in the Work Function Modification at Various Stages of Chemically Synthesized Graphene. <i>Journal of Physical Chemistry C</i> , 2013 , 130911121623000	3.8 9
435	Ion beam-generated surface ripples: new insight in the underlying mechanism. <i>Nanoscale Research Letters</i> , 2013 , 8, 336	5 27
434	Swift heavy ion induced modification in morphological and physico-chemical properties of tin oxide nanocomposites. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 315, 179-183	1.2 10
433	Defects in 700 keV oxygen ion irradiated ZnO. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 311, 20-26	1.2 16
432	Energetic ion irradiation induced crystallization of NiMnSn ferromagnetic shape memory alloy thin film. <i>Vacuum</i> , 2013 , 89, 190-196	3.7 9
431	Structural and optical studies of 100 MeV Au irradiated thin films of tin oxide. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 314, 170-175	1.2 26
430	Ion beam-assisted template synthesis of nanowires on semiconducting substrate. <i>Radiation Effects and Defects in Solids</i> , 2013 , 168, 477-483	0.9
429	Surface modification of indium phosphide by 100 MeV iron ions. <i>Radiation Effects and Defects in Solids</i> , 2013 , 168, 557-563	0.9 6
428	In Situ Investigation of Current Transport Across Pt/n-Si (100) Schottky Junction During 100 MeV Ni ⁷⁺ Ion Irradiation. <i>IEEE Transactions on Device and Materials Reliability</i> , 2013 , 13, 98-102	1.6 13
427	Electronic excitation induced phase transformation in FSMA thin film. <i>Vacuum</i> , 2013 , 89, 215-219	3.7 5
426	Evolution of damage fraction due to dense ionizing irradiation on TiO ₂ film. <i>Applied Surface Science</i> , 2013 , 282, 595-600	6.7 5
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424	Effect of 1.2MeV argon ions irradiation on magnetic properties of ZnO. <i>Applied Surface Science</i> , 2013 , 282, 954-959	6.7 9
423	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> , 2013 , 283, 417-421	6.7 18
422	Swift heavy ion irradiation induced modification of structure and surface morphology of BiFeO ₃ thin film. <i>Bulletin of Materials Science</i> , 2013 , 36, 813-818	1.7 14
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4 ²⁰	Tailoring Structural Properties of Polyethylene Terephthalate (PET) by 200 keV Ar+ Implantation. <i>Advanced Materials Research</i> , 2013 , 665, 221-226	0.5	3
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4 ¹⁸	Structural and optical properties of ZnO and ZnO:Fe nanoparticles under dense electronic excitations. <i>Journal of Applied Physics</i> , 2013 , 114, 164321	2.5	16
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4 ¹⁵	Size-dependent optical properties of TiO ₂ nanostructures. <i>Radiation Effects and Defects in Solids</i> , 2013 , 168, 518-524	0.9	10
4 ¹⁴	Template-Based Synthesis of Nano/Micro Structures on a Semiconducting Substrate. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2013 , 62, 91-94	3	1
4 ¹³	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> , 2013 , 4, 343-346	2.4	6
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4 ¹¹	Enhancement of wettability and antibiotic loading/release of hydroxyapatite thin film modified by 100MeV Ag ⁷⁺ ion irradiation. <i>Materials Chemistry and Physics</i> , 2012 , 134, 464-477	4.4	35
4 ¹⁰	Evolution of microstructure and crack pattern in NiO thin films under 200MeV Au ion irradiation. <i>Radiation Physics and Chemistry</i> , 2012 , 81, 647-651	2.5	12
4 ⁰⁹	Investigation of O ⁷⁺ swift heavy ion irradiation on molybdenum doped indium oxide thin films. <i>Radiation Physics and Chemistry</i> , 2012 , 81, 589-593	2.5	14
4 ⁰⁸	Ion beam induced dissolution and precipitation of in situ formed Si-nanostructures in a-SiN _x :H matrix. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012 , 276, 51-55	1.2	16
4 ⁰⁷	Defects induced magnetic transition in Co doped ZnS thin films: Effects of swift heavy ion irradiations. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 2136-2141	2.8	33
4 ⁰⁶	Ion erosion induced nanostructured semiconductor surfaces. <i>International Journal of Nanotechnology</i> , 2012 , 9, 1007	1.5	
4 ⁰⁵	A study on 120MeV Ag ⁹⁺ irradiation induced modifications in structural, electrical and optical behavior of ZnSnO ₃ thin films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012 , 285, 61-64	1.2	11
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4 ⁰³	Nanostructures on GaAs surfaces due to 60keV Ar ⁺ -ion beam sputtering. <i>Applied Surface Science</i> , 2012 , 258, 4144-4147	6.7	14

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103	STM/STS studies of BiO layers of Pb doped Bi-2223 superconductors irradiated by 100MeV oxygen ion. <i>Solid State Communications</i> , 2002 , 123, 117-122	1.6	
102	In situ resistivity studies of 200MeV ¹⁰⁷ Ag ¹⁴⁺ ion irradiated n-GaAs epitaxial layers. <i>Vacuum</i> , 2002 , 65, 39-43	3.7	
101	Effect of irradiation by 100MeV ⁵⁸ Ni ⁺⁸ ion on quasicrystalline thin films. <i>Vacuum</i> , 2002 , 68, 349-355	3.7	2
100	Temperature dependence of 1/f noise in Pd/n-GaAs Schottky barrier diode. <i>Journal of Applied Physics</i> , 2002 , 91, 411	2.5	14
99	Peak effect and its evolution with defect structure in YBa ₂ Cu ₃ O _{7-δ} thin films at microwave frequencies. <i>Physical Review B</i> , 2002 , 65,	3.3	9
98	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> , 2002 , 157, 367-374	0.9	16
97	Electronic-Excitation-Induced Enhancement in Metallicity on HOPG and Si Surfaces: In Situ STM/STS Studies. <i>Lecture Notes in Physics</i> , 2002 , 269-277	0.8	

96	Swift heavy ion irradiation induced modification of electrical characteristics of Au/n-Si Schottky barrier diode. <i>Materials Science in Semiconductor Processing</i> , 2001 , 4, 425-432	4.3	37
95	Experimental investigation of 200 MeV 107Ag ¹⁴⁺ 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> , 2001 , 86, 228-231	3.1	10
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93	Nanoscale defect formation on InP surface by swift gold ion impact. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2001 , 179, 37-41	1.2	13
92	Temperature-dependent roughness of electronically excited InP surfaces. <i>Journal of Applied Physics</i> , 2001 , 90, 5968-5972	2.5	31
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89	Positron lifetime studies of 100-MeV oxygen irradiated Pb-doped Bi-2223 superconductors. <i>Solid State Communications</i> , 2000 , 114, 655-659	1.6	12
88	In situ STM studies of HOPG surface after 200 MeV Au ⁺¹³ ion irradiation. <i>Vacuum</i> , 2000 , 57, 319-325	3.7	11
87	Fluctuation induced conductivity studies of 100 MeV oxygen ion irradiated Pb doped Bi-2223 superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2000 , 341-348, 1185-1186	1.3	6
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80	Swift heavy ion irradiation effects on transport properties of epitaxial thin films of La _{1-x} Ca _x MnO ₃ . <i>Radiation Effects and Defects in Solids</i> , 1999 , 147, 187-197	0.9	36
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74	Oxygen related defects in high energy ion irradiated GaAs. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1999 , 156, 95-99	1.2	5
73	Electrical characteristics of high energy 120Sn implantation in p-type GaAs. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1999 , 156, 78-83	1.2	1
72	Dielectric response of heavy ion irradiated PADC track detector. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1999 , 155, 116-119	1.2	30
71	X-ray, resistivity and AC susceptibility studies of 100 MeV oxygen ion irradiated polycrystalline Bi-2223. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1999 , 156, 58-63	1.2	3
70	In situ 1/f noise studies on swift heavy ion irradiated p-type silicon. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1999 , 156, 265-269	1.2	4
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