

Fouran Singh

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5347554/fouran-singh-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

356
papers

6,284
citations

40
h-index

58
g-index

369
ext. papers

7,086
ext. citations

2.6
avg, IF

6.13
L-index

#	Paper	IF	Citations
356	Defects engineering and enhancement in optical and structural properties of 2D-MoS ₂ thin films by high energy ion beam irradiation. <i>Materials Chemistry and Physics</i> , 2022 , 276, 125422	4.4	0
355	A comparative study on gamma and carbon ion irradiations induced modification in structural and electrical properties of PVA/H ₃ PO ₄ /SiO ₂ nanocomposite polymer electrolyte. <i>Radiation Physics and Chemistry</i> , 2022 , 192, 109916	2.5	0
354	Semiconductor-to-metal transition in nanocomposites of wide bandgap oxide semiconductors. <i>Journal of Alloys and Compounds</i> , 2022 , 894, 162392	5.7	0
353	Tuning the optical constants and thermal properties of CdS nanocrystals by SHI irradiation: A blended analysis through DFT+U and TS model. <i>Materials Science in Semiconductor Processing</i> , 2022 , 138, 106278	4.3	0
352	Influence of high dose gamma radiation on optical, physico-chemical and surface morphology properties of nanocrystalline ZrO ₂ thin films. <i>Optical Materials</i> , 2022 , 126, 112125	3.3	1
351	Impact of high energy ion irradiation on structural, morphological, optical and photoluminescence properties of MgTiO ₃ thin films. <i>Journal of Luminescence</i> , 2022 , 119051	3.8	
350	Modulation of radiative defects in MgAl ₂ O ₄ nanocrystals probed using NMR, ESR, and PL spectroscopies. <i>Journal of Applied Physics</i> , 2021 , 129, 125111	2.5	3
349	Annealing Effects on Gas Sensing Response of Ga-Doped ZnO Thin Films. <i>ACS Omega</i> , 2021 , 6, 11660-11668	1.6	2
348	Signature of strong localization and crossover conduction processes in doped ZnO thin films: synergetic effect of doping fraction and dense electronic excitations. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	1
347	Tuning of defects induced visible photoluminescence by swift heavy ion irradiation and thermal annealing in zinc oxide films. <i>Radiation Physics and Chemistry</i> , 2021 , 183, 109400	2.5	5
346	Probing the defects and trap distribution in MgAl ₂ O ₄ nanocrystals through electron spin resonance and thermoluminescence. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 335303	3	0
345	Influence of swift heavy ion irradiation on sensing properties of nickel-(NRs-Ni ₃ HHTP ₂) metal-organic framework. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 18657-18668	2.1	1
344	Photoluminescence Quenching and Photo-Induced Charge Transfer Processes in Poly(3-octylthiophene) Polymer Based Hybrid Nano-composites by Ion Irradiation for Possible Optoelectronic Applications. <i>Journal of Electronic Materials</i> , 2021 , 50, 85-99	1.9	0
343	Swift heavy ion irradiation induced negative differential resistance and transport of charge carriers in conducting polymer-metal oxide hybrids. <i>Radiation Physics and Chemistry</i> , 2021 , 179, 109211	2.5	3
342	Tuning the properties of Fe-BTC metal-organic frameworks (MOFs) by swift heavy ion (SHI) irradiation. <i>Radiation Effects and Defects in Solids</i> , 2021 , 176, 274-283	0.9	4
341	Effect of swift heavy ions irradiation on physicochemical and dielectric properties of chitosan and chitosan-Ag nanocomposites. <i>Radiation Physics and Chemistry</i> , 2021 , 181, 109288	2.5	2
340	Influence of swift heavy ion irradiations on temperature dependent phononic behavior of epitaxial LaNiO ₃ thin film. <i>Journal of Applied Physics</i> , 2021 , 130, 015301	2.5	0

339	Interface modification of Fe/Cr/Al magnetic multilayer by swift heavy ion irradiation. <i>Surfaces and Interfaces</i> , 2021 , 26, 101431	4.1	1
338	High energy (MeV) ion beam induced modifications in Al ₂ O ₃ -ZnO multilayers thin films grown by ALD and enhancement in photoluminescence, optical and structural properties. <i>Vacuum</i> , 2021 , 192, 110435	2.7	5
337	Impact of defects on the structural and electrical transport properties of Sb ₂ Te ₃ thin films by SHI irradiation. <i>Materials Letters: X</i> , 2021 , 12, 100113	0.5	
336	Bimetallic Implanted Plasmonic Photoanodes for TiO Sensitized Third Generation Solar Cells. <i>Scientific Reports</i> , 2020 , 10, 7657	4.9	14
335	Down and upconversion photoluminescence of ZrO ₂ :Er ³⁺ phosphor irradiated with 120 MeV gold ions. <i>Materials Research Express</i> , 2020 , 7, 064006	1.7	2
334	Structural and electronic-structure investigations of defects in Cu-ion-implanted SnO ₂ thin films. <i>Vacuum</i> , 2020 , 179, 109481	3.7	6
333	Effect of annealing on luminescence of ZrO ₂ irradiated with 100 MeV Si ⁷⁺ ions. <i>Optical Materials</i> , 2020 , 107, 109984	3.3	1
332	Ion beam engineering in WO ₃ -PEDOT: PSS hybrid nanocomposite thin films for gas sensing measurement at room temperature. <i>Inorganic Chemistry Communication</i> , 2020 , 119, 108000	3.1	12
331	Effect of ion irradiation on the optical properties of Ag-doped Ge ₂ Sb ₂ Te ₅ (GST) thin films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020 , 467, 40-43	1.2	6
330	Improved optical properties of ion beam irradiated (K,Na)NbO ₃ thin films. <i>Journal of Alloys and Compounds</i> , 2020 , 823, 153794	5.7	10
329	Microstructural analysis of SHI irradiated CdS nanocrystals- utilizing first principles method. <i>Journal of Alloys and Compounds</i> , 2020 , 824, 153968	5.7	3
328	Band gap engineering of cadmium selenide nanocrystals using 120 MeV Ag ⁷⁺ swift heavy ions, alongside theoretical evidence through PBE+U analysis. <i>Journal of Alloys and Compounds</i> , 2020 , 836, 155535	5.7	1
327	Radiation stability and reliability of Cu ₂ N/P3OT hybrid heterostructures under swift heavy ion irradiations. <i>Materials Science in Semiconductor Processing</i> , 2020 , 108, 104885	4.3	3
326	Ag ion implanted TiO ₂ photoanodes for fabrication of highly efficient and economical plasmonic dye sensitized solar cells. <i>Chemical Physics Letters</i> , 2020 , 740, 137070	2.5	12
325	Irradiation induced modification of structural and optical properties of potassium sodium niobate thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	106
324	A versatile multifaceted resistive switching memory activated by light and ion irradiation in poly (3-octylthiophene)-zinc oxide hybrids. <i>Organic Electronics</i> , 2020 , 87, 105932	3.5	5
323	150 KeV Cu ¹⁰⁺ ion- implantation in SrVO ₃ thin films: A study of Cu induced defect states. <i>Vacuum</i> , 2020 , 181, 109655	3.7	2
322	Raman scattering from irradiated nanocrystalline zinc oxide thin films: Perspective view on effects of energy loss, ion fluence, and ion flux. <i>Vacuum</i> , 2020 , 181, 109598	3.7	8

321	X-ray diffraction analysis by Williamson-Hall, Halder-Wagner and size-strain plot methods of CdSe nanoparticles- a comparative study. <i>Materials Chemistry and Physics</i> , 2020 , 239, 122021	4.4	255
320	120 MeV Ni ¹⁰⁺ swift heavy ions irradiation on CdSe nanocrystals induces cubic to hexagonal phase transformation - A study of microstructural modification. <i>Materials Science in Semiconductor Processing</i> , 2020 , 114, 105079	4.3	5
319	Photoluminescence and thermoluminescence studies of 100 MeV Si ⁸⁺ ion irradiated Y ₂ O ₃ :Dy ³⁺ nanophosphor. <i>Journal of Luminescence</i> , 2019 , 209, 179-187	3.8	5
318	In Situ Study of Radiation Stability and Associated Conduction Mechanisms of Nb-Doped TiO ₂ /p-Si Heterojunction Diode Under Swift Heavy Ion Irradiation. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 1475-1481	2.9	6
317	High energy (150 MeV) Fe ¹¹⁺ ion beam induced modifications of physico-chemical and photoluminescence properties of high-k dielectric nanocrystalline zirconium oxide thin films. <i>Ceramics International</i> , 2019 , 45, 18887-18898	5.1	10
316	Defect-induced photoluminescence from gallium-doped zinc oxide thin films: influence of doping and energetic ion irradiation. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 15019-15029	3.6	44
315	Luminescence properties of BaMgAl ₁₀ O ₁₇ : Mn ²⁺ nanophosphors. <i>Journal of Alloys and Compounds</i> , 2019 , 799, 556-562	5.7	10
314	Evolution of symmetry forbidden and silent Raman modes of cadmium doped zinc oxide films activated by swift heavy ion irradiation. <i>Physica B: Condensed Matter</i> , 2019 , 570, 13-18	2.8	7
313	Structure and crystal field analysis using ionoluminescence of Al ₂ O ₃ : Tm ³⁺ phosphor. <i>Journal of Luminescence</i> , 2019 , 214, 116553	3.8	6
312	Enhanced room temperature ferromagnetism and green photoluminescence in Cu doped ZnO thin film synthesised by neutral beam sputtering. <i>Scientific Reports</i> , 2019 , 9, 6675	4.9	52
311	Conductivity and dielectric behavior of PEO-PAM-NaCF ₃ SO ₃ blend electrolyte system irradiated with swift heavy O ₆₊ ion beam. <i>Radiation Physics and Chemistry</i> , 2019 , 161, 87-94	2.5	5
310	Effects of MeV ions on physicochemical and dielectric properties of chitosan/PEO polymeric blend. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019 , 447, 68-78	1.2	3
309	Stiffening of phonons with enhanced hybridization and structural phase transformation upon Pr-doping in BiFeO ₃ . <i>Physica B: Condensed Matter</i> , 2019 , 571, 247-251	2.8	2
308	Micro-Raman investigations on zirconium oxide film during swift heavy ion irradiation to study crystalline-to-crystalline phase transformation kinetics by cascade overlap model. <i>Journal of Applied Physics</i> , 2019 , 126, 025901	2.5	5
307	High temperature-mediated rocksalt to wurtzite phase transformation in cadmium oxide nanosheets and its theoretical evidence. <i>Nanoscale</i> , 2019 , 11, 14802-14819	7.7	8
306	Photo-induced inter-chain and interfacial charge transfer in CuZnO/ poly (3-octylthiophene) hybrid nanocomposites. <i>Optical Materials</i> , 2019 , 94, 316-321	3.3	4
305	Development of WO ₃ -PEDOT: PSS hybrid nanocomposites based devices for liquefied petroleum gas (LPG) sensor. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 13593-13603	2.1	19
304	Structural investigation of low energy ion irradiated Al ₂ O ₃ . <i>Ceramics International</i> , 2019 , 45, 20346-20353	3.1	6

303	Fabrication of plasmonic dye-sensitized solar cells using ion-implanted photoanodes.. <i>RSC Advances</i> , 2019 , 9, 20375-20384	3.7	6
302	Effect of Annealing on the Surface Morphology, Optical and Structural Properties of Nanodimensional Tungsten Oxide Prepared by Coprecipitation Technique. <i>Journal of Electronic Materials</i> , 2019 , 48, 1174-1183	1.9	23
301	Thermoluminescence response in 60Co gamma rays, 100 MeV Si8+ and 150 MeV Au9+ irradiated Y2O3:Ho3+ nanophosphor. <i>Journal of Alloys and Compounds</i> , 2019 , 778, 554-565	5.7	7
300	Effects of high-energy ion-beam irradiation on structural and optical properties of (Mg0.95Co0.05)TiO3 thin films. <i>Radiation Effects and Defects in Solids</i> , 2018 , 173, 128-137	0.9	4
299	TL/OSL properties of beta irradiated Al2O3:Tm3+ phosphor synthesized by microwave combustion method. <i>Materials Research Bulletin</i> , 2018 , 104, 236-243	5.1	10
298	Photoluminescence, thermoluminescence and defect centres in Y2O3 and Y2O3:Tb3+ under 100 MeV swift Ni8+ ion beam irradiation. <i>Materials Research Bulletin</i> , 2018 , 102, 62-69	5.1	5
297	Reversible phase transformation phenomenon in titanium dioxide films: Evidence beyond interface-nucleation and dissolution-precipitation kinetics. <i>Acta Materialia</i> , 2018 , 146, 253-264	8.4	9
296	Structural phase transformation and modification of optical absorption of SHI induced nanostructured CdS films. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 582-588	2.1	1
295	Thermoluminescence properties of 100 MeV Si7+ ion-irradiated Al2O3. <i>Radiation Effects and Defects in Solids</i> , 2018 , 173, 504-509	0.9	1
294	Facile Synthesis of Semiconducting Ultrathin Layer of Molybdenum Disulfide. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 614-622	1.3	1
293	Dosimetric properties of ZrO2 and ZrO2:Sm3+ exposed to beta rays. <i>Ceramics International</i> , 2018 , 44, 18871-18877	5.1	9
292	Conductivity studies of blend polymer electrolyte system irradiated with swift heavy O6+ ion beam 2018 ,		1
291	Influence of thermal annealing and radiation enhanced diffusion processes on surface plasmon resonance of gold implanted dielectric matrices. <i>Radiation Physics and Chemistry</i> , 2018 , 144, 141-148	2.5	4
290	Comparative studies on thermoluminescence glow curves of calcium oxide nanophosphor irradiated with various ionizing radiations. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 1949-1954	5.7	5
289	Photoluminescence, thermoluminescence glow curve and emission characteristics of YO:Er nanophosphor. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 189, 349-356	4.4	11
288	Design of an RMS based Steady State Detector for a Cryogenic Temperature Control Process and Automation of Temperature vs Material Property Characterizations. <i>IFAC-PapersOnLine</i> , 2018 , 51, 407-412	0.7	0
287	Detailed optical analysis of 100 MeV Ni7+ ion irradiated WO3 thin films using Surface Plasmon Resonance. <i>Radiation Physics and Chemistry</i> , 2018 , 153, 51-57	2.5	3
286	Highly selective and reversible NO gas sensor using vertically aligned MoS flake networks. <i>Nanotechnology</i> , 2018 , 29, 464001	3.4	50

285	Multifunctional hybrid diode: Study of photoresponse, high responsivity, and charge injection mechanisms. <i>Journal of Applied Physics</i> , 2018 , 123, 174503	2.5	10
284	Ion beam assisted fortification of photoconduction and photosensitivity. <i>Sensors and Actuators A: Physical</i> , 2018 , 279, 343-350	3.9	8
283	n-ZnO/p-Si heterojunction nanodiodes based sensor for monitoring UV radiation. <i>Sensors and Actuators A: Physical</i> , 2018 , 279, 351-360	3.9	12
282	Correlations of charge neutrality level with electronic structure and p-d hybridization. <i>Scientific Reports</i> , 2017 , 7, 40843	4.9	13
281	Swift heavy ion irradiation induced modifications in structural, microstructural, electrical and magnetic properties of Mn doped SnO ₂ thin films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017 , 400, 37-57	1.2	20
280	Thermoluminescence studies of solid-state reaction derived and γ -irradiated SrGd ₂ O ₄ :Eu ³⁺ phosphor. <i>Materials Research Bulletin</i> , 2017 , 93, 318-324	5.1	15
279	Evidence of luminescence modification with structure of zirconia phases. <i>Journal of Luminescence</i> , 2017 , 192, 173-179	3.8	8
278	TL/OSL properties of beta irradiated Al ₂ O ₃ Nanophosphor synthesized by microwave combustion method 2017 ,		1
277	Synthesis and thermoluminescence studies of γ -irradiated Dy ³⁺ doped SrGd ₂ O ₄ phosphor. <i>Materials Research Bulletin</i> , 2017 , 94, 113-121	5.1	12
276	Virtual gap states induced modifications in charge neutrality level in cadmium oxide thin films. <i>Materials Research Express</i> , 2017 , 4, 045901	1.7	1
275	Photoluminescence and reflectivity studies of high energy light ions irradiated polymethyl methacrylate films. <i>Optical Materials</i> , 2017 , 73, 550-554	3.3	4
274	Electronic excitation induced anomalous band gap enhancement in Ni _x Cd _{1-x} O thin films. <i>Vacuum</i> , 2017 , 146, 287-296	3.7	6
273	Ion beam modification of structural and optical properties of GeO ₂ thin films deposited at various substrate temperatures using pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	5
272	Ion irradiation-induced, localized sp ² to sp ³ hybridized carbon transformation in walls of multiwalled carbon nanotubes. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017 , 412, 115-122	1.2	4
271	Control and materials characterization System for 6T Superconducting Cryogen Free Magnet Facility at IUAC, New Delhi. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 171, 012138	0.4	2
270	Mechanism of thermoluminescence in high energy carbon ion irradiated Tb ³⁺ -doped Al ₂ O ₃ phosphor for carbon ion beam dosimetry. <i>Materials Research Express</i> , 2017 , 4, 095023	1.7	11
269	Modification of chitosan-based biodegradable polymer by irradiation with MeV ions for electrolyte applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2017 , 225, 150-159	3.1	16
268	Nanostructuring and wettability of ion treated Au thin films. <i>Journal of Applied Physics</i> , 2017 , 122, 185303	3.5	14

267	Synthesis, thermoluminescence and defect centres in Eu ³⁺ -doped Y ₂ O ₃ nanophosphor for gamma dosimetry applications. <i>Materials Research Express</i> , 2017 , 4, 115033	1.7	15
266	Photoluminescence studies of gamma irradiated Y ₂ O ₃ :Eu ³⁺ nanophosphor 2017 ,		1
265	Influence of 100 MeV Au ⁺ 8 ion on photovoltaic response of BiFeO ₃ /BaTiO ₃ multilayer structures. <i>Materials and Design</i> , 2017 , 114, 345-354	8.1	4
264	Swift heavy ions induced nano-grain fragmentation in fluoride thin films. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 83-90	5.7	10
263	The role of ion irradiation in activating silent Raman modes via tuning in plasmonic behaviour and surface disorder of Au/ZnO/Pt NFG system. <i>Europhysics Letters</i> , 2017 , 119, 66002	1.6	2
262	Study of phase transformation induced by electronic excitation in pure and yttrium doped ZrO ₂ thin films. <i>Materials Research Express</i> , 2017 , 4, 096401	1.7	9
261	Helium exchange gas based variable temperature insert for cryogen-free magnet system. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 171, 012092	0.4	2
260	Effect of Swift Heavy Ion Irradiation on the Structural and Optical Properties of CdO Thin Films. <i>Springer Proceedings in Physics</i> , 2017 , 199-203	0.2	1
259	Synthesis characterization and luminescence studies of gamma irradiated nanocrystalline yttrium oxide. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016 , 154, 220-231	4.4	38
258	Ion beam induced luminescence studies of sol gel derived Y ₂ O ₃ :Dy ³⁺ nanophosphors. <i>Journal of Luminescence</i> , 2016 , 169, 627-634	3.8	14
257	Micro-Raman and electronic structure study on kinetics of electronic excitations induced monoclinic-to-tetragonal phase transition in zirconium oxide films. <i>RSC Advances</i> , 2016 , 6, 104425-104432	3.7	24
256	Europium activated gadolinium sulfide nanoparticles. <i>RSC Advances</i> , 2016 , 6, 108523-108529	3.7	1
255	Effect of 100 MeV swift Si ⁸⁺ ions on structural and thermoluminescence properties of Y ₂ O ₃ :Dy ³⁺ nanophosphor. <i>Radiation Effects and Defects in Solids</i> , 2016 , 171, 408-420	0.9	4
254	SHI induced modification in structural, optical, dielectric and thermal properties of poly ethylene oxide films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016 , 379, 156-161	1.2	5
253	Effect of ion beam irradiation on dielectric properties of BaTiO ₃ thin film using surface plasmon resonance. <i>Journal of Materials Science</i> , 2016 , 51, 4055-4060	4.3	9
252	Modification of photosensing property of CdS/Bi ₂ S ₃ bi-layer by thermal annealing and swift heavy ion irradiation. <i>Materials Chemistry and Physics</i> , 2016 , 169, 6-12	4.4	6
251	Decomposition mechanism of indium oxide nanoparticles sandwiched between zinc oxide layers by energetic ions. <i>Ceramics International</i> , 2016 , 42, 2846-2853	5.1	3
250	Swift heavy ion irradiation induced phase transformation in undoped and niobium doped titanium dioxide composite thin films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016 , 379, 224-229	1.2	9

249	Band gap engineering and low temperature transport phenomenon in highly conducting antimony doped tin oxide thin films. <i>Ceramics International</i> , 2016 , 42, 5932-5941	5.1	21
248	Electronic structure modification and Fermi level shifting in niobium-doped anatase titanium dioxide thin films: a comparative study of NEXAFS, work function and stiffening of phonons. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 3618-27	3.6	22
247	Study of valence band tailing effect induced by electronic excitations in nanocrystalline cadmium oxide thin films. <i>Optik</i> , 2016 , 127, 2055-2058	2.5	7
246	Giant UV-sensitivity of ion beam irradiated nanocrystalline CdS thin films. <i>RSC Advances</i> , 2016 , 6, 3642-3649	3.7	22
245	Swift heavy ion induced structural phase generation and enhanced luminescence from CdS based nanocomposites. <i>Surface and Coatings Technology</i> , 2016 , 306, 305-308	4.4	2
244	Carrier transport mechanism of highly-sensitive niobium doped titanium dioxide/p-Si heterojunction photodiode under illuminations by solar simulated light. <i>Journal of Applied Physics</i> , 2016 , 120, 214502	2.5	13
243	Composition dependent Fermi level shifting of Au decorated MoS ₂ nanosheets. <i>Applied Physics Letters</i> , 2016 , 108, 013103	3.4	22
242	Electronic excitation induced modification in fullerene C70 thin films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016 , 379, 188-194	1.2	4
241	Swift heavy ion-irradiation effects on microstructure, surface morphology and optical properties of PbS thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	7
240	Enhancement in luminescence properties of ZrO ₂ :Dy ³⁺ under 100 MeV swift Ni ⁷⁺ ion irradiation. <i>RSC Advances</i> , 2016 , 6, 55240-55247	3.7	12
239	Thermoluminescence studies of γ -irradiated Al ₂ O ₃ :Ce ³⁺ phosphor. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016 , 379, 146-151	1.2	19
238	Ion beam induced optical and surface modification in plasmonic nanostructures. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016 , 379, 42-47	1.2	6
237	Ion beam induced cubic to monoclinic phase transformation of nanocrystalline yttria. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016 , 379, 73-77	1.2	9
236	Band gap widening and narrowing in Cu-doped ZnO thin films. <i>Journal of Alloys and Compounds</i> , 2016 , 680, 252-258	5.7	95
235	Swift heavy ion induced phase transformation and thermoluminescence properties of zirconium oxide. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016 , 379, 131-135	1.2	10
234	Refractive index dispersion of swift heavy ion irradiated BFO thin films using Surface Plasmon Resonance technique. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016 , 379, 126-130	1.2	5
233	Potential application of carbon nanotube core as nanocontainer and nanoreactor for the encapsulated nanomaterial. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016 , 379, 181-187	1.2	5
232	Swift heavy ion irradiated SnO ₂ thin film sensor for efficient detection of SO ₂ gas. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016 , 379, 219-223	1.2	12

231	Influence of electronic excitations on structural, optical and electrical properties of undoped and antimony doped tin oxide thin films. <i>Thin Solid Films</i> , 2016 , 616, 34-42	2.2	24
230	Luminescence properties of 100 MeV swift Si ⁷⁺ ions irradiated nanocrystalline zirconium oxide. <i>Journal of Alloys and Compounds</i> , 2015 , 647, 921-926	5.7	19
229	Giant enhancement of the n-type conductivity in single phase p-type ZnO:N thin films by intentionally created defect clusters and pairs. <i>Solid State Communications</i> , 2015 , 218, 20-24	1.6	29
228	The influence of Ag ⁹⁺ ion irradiation on the structural, optical and luminescence properties of Sm ³⁺ doped NaSrBO ₃ : Stability of color emission. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015 , 351, 27-34	1.2	8
227	Thermoluminescence of sol-gel derived Y ₂ O ₃ :Nd ³⁺ nanophosphor exposed to 100 MeV Si ⁸⁺ ions and gamma rays. <i>Journal of Alloys and Compounds</i> , 2015 , 637, 564-573	5.7	23
226	Effect of swift heavy ion on structural and optical properties of highly transparent zinc oxide films. <i>Journal of Sol-Gel Science and Technology</i> , 2015 , 76, 608-613	2.3	5
225	Structural and electrochemical characterization of carbon ion beam irradiated reduced graphene oxide and its application in voltammetric determination of norepinephrine. <i>RSC Advances</i> , 2015 , 5, 87504-87511	2.7	10
224	Growth of highly transparent Cd _x Zn _{1-x} O (CZO) thin films: Structural and optical studies. <i>Journal of Alloys and Compounds</i> , 2015 , 650, 311-317	5.7	10
223	Effect of swift heavy ion irradiation on structural and opto-electrical properties of bi-layer CdS/Bi ₂ S ₃ thin films prepared by solution growth technique at room temperature. <i>Radiation Physics and Chemistry</i> , 2015 , 106, 193-198	2.5	8
222	Anomalous behavior of B _{1g} mode in highly transparent anatase nano-crystalline Nb-doped Titanium Dioxide (NTO) thin films. <i>AIP Advances</i> , 2015 , 5, 127212	1.5	9
221	100 MeV swift Si ⁷⁺ ion induced thermoluminescence studies of nanocrystalline erbium doped ZrO ₂ 2015 ,		1
220	Defect controlled ferromagnetism in xenon ion irradiated zinc oxide. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 385, 318-325	2.8	21
219	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
218	SHI Induced Thermoluminescence Properties Of sol-gel Derived Y ₂ O ₃ :Er ³⁺ Nanophosphor. <i>Advanced Materials Letters</i> , 2015 , 6, 342-347	2.4	4
217	Study Of Chemically Synthesized SHI Irradiated CdS Nanostructured Films. <i>Advanced Materials Letters</i> , 2015 , 6, 354-358	2.4	2
216	Damage creation in Lithium Fluoride thin films induced by swift heavy ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014 , 332, 134-137	1.2	4
215	Synthesis characterization and luminescence studies of 100 MeV Si ⁸⁺ ion irradiated sol gel derived nanocrystalline Y ₂ O ₃ . <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014 , 329, 40-47	1.2	24
214	Thermoluminescence studies of γ -irradiated nanocrystalline Y ₃ Al ₅ O ₁₂ . <i>Radiation Effects and Defects in Solids</i> , 2014 , 169, 696-705	0.9	5

213	Correlation between surface phonon mode and luminescence in nanocrystalline CdS thin films: An effect of ion beam irradiation. <i>Journal of Applied Physics</i> , 2014 , 116, 043517	2.5	18
212	Swift heavy ion induced structural, optical and luminescence modification in NaSrBO ₃ :Dy ³⁺ phosphor. <i>Journal of Materials Science</i> , 2014 , 49, 6404-6412	4.3	18
211	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
210	Luminescence studies of 100 MeV Si ⁸⁺ ion irradiated nanocrystalline Y ₂ O ₃ . <i>Radiation Measurements</i> , 2014 , 71, 518-523	1.5	12
209	Micro-Raman study on the softening and stiffening of phonons in rutile titanium dioxide film: Competing effects of structural defects, crystallite size, and lattice strain. <i>Journal of Applied Physics</i> , 2014 , 115, 143504	2.5	35
208	Heavy ion induced luminescence studies of YAlO ₃ :Tb ³⁺ , Tm ³⁺ single crystals. <i>Materials Research Express</i> , 2014 , 1, 015908	1.7	4
207	Purification/annealing of graphene with 100-MeV Ag ion irradiation. <i>Nanoscale Research Letters</i> , 2014 , 9, 126	5	38
206	Structural and Optical Studies of Sol-Gel Deposited Nanostructured ZnO Thin Films: Annealing Effect. <i>Environmental Science and Engineering</i> , 2014 , 709-712	0.2	
205	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
204	Effect of Swift Heavy Ions on Pulsed Laser Deposited Ag Doped CdS Nanocrystalline Thin Films. <i>Advanced Science Letters</i> , 2014 , 20, 977-983	0.1	7
203	Thermal Annealing Induced Anomalous Band Gap Modifications in Nanocrystalline Antimony Doped Tin Oxide Thin Films. <i>Advanced Science Letters</i> , 2014 , 20, 1410-1413	0.1	2
202	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
201	Thermoluminescence properties of 100 MeV Si ⁷⁺ swift heavy ions and UV irradiated CdSiO ₃ :Ce ³⁺ nanophosphor. <i>Journal of Luminescence</i> , 2013 , 134, 358-368	3.8	18
200	In situ X-ray diffraction study of the growth of silver nanoparticles embedded in silica film by ion irradiation: The effect of volume fraction. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 311, 5-9	1.2	5
199	Studies on Ag ⁸⁺ and Li ⁴⁺ ions irradiated LAHCl single crystals. <i>Materials Chemistry and Physics</i> , 2013 , 137, 937-940	4.4	1
198	Investigation of Au ⁹⁺ swift heavy ion irradiation on CdS/CuInSe ₂ thin films. <i>Radiation Physics and Chemistry</i> , 2013 , 91, 81-88	2.5	6
197	Effect of Br ⁶⁺ ions on the structural, morphological and luminescent properties of ZnO/Si thin films. <i>Applied Surface Science</i> , 2013 , 279, 472-478	6.7	63
196	Structural, ionic and thermoluminescence properties of heavy ion (100 MeV Si ⁷⁺) bombarded Zn ₂ SiO ₄ :Sm ³⁺ nanophosphor. <i>Journal of Luminescence</i> , 2013 , 143, 409-417	3.8	21

195	Study of classical thermo-mechanical equations in ultrafast thermo-elastic domain: electronic sputtering from metal dielectric nanocomposites. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 325305	3	11
194	Effect of swift heavy ion irradiation on lead sulfide quantum dots embedded in polyvinyl alcohol. <i>Radiation Effects and Defects in Solids</i> , 2013 , 168, 498-503	0.9	8
193	High efficiency hybrid solid state blended dyes sensitized solar cell based on zinc oxide nanostructures. <i>Journal of Renewable and Sustainable Energy</i> , 2013 , 5, 033134	2.5	8
192	Swift heavy ion irradiation of ZnO nanoparticles embedded in silica: Radiation-induced deoxidation and shape elongation. <i>Applied Physics Letters</i> , 2013 , 103, 203106	3.4	21
191	Modifications induced by O ⁺⁸ ion beam to Lexan polycarbonate. <i>Radiation Effects and Defects in Solids</i> , 2013 , 168, 594-600	0.9	2
190	Thermo-luminescence kinetic parameters of γ -irradiated Sr ₄ Al ₁₄ O ₂₅ :Eu ²⁺ , Dy ³⁺ phosphors. <i>Radiation Effects and Defects in Solids</i> , 2013 , 168, 1022-1029	0.9	4
189	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
188	Effect Of Swift Heavy Ion On Structural And Optical Properties Of Undoped And Doped Nanocrystalline Zinc Oxide Films. <i>Advanced Materials Letters</i> , 2013 , 4, 423-427	2.4	30
187	Ionoluminescence studies of natural kyanite mineral from different parts of Indian origin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 86, 15-9	4.4	2
186	Ion beam induced amorphization and bond breaking in Zn ₂ SiO ₄ :Eu ³⁺ nanocrystalline phosphor. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 90, 18-21	4.4	20
185	Swift heavy ion induced structural, iono and photoluminescence properties of γ -CaSiO ₃ :Dy ³⁺ nanophosphor. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 93, 300-5	4.4	11
184	Effect of swift heavy ion irradiation on sputter deposited SiO ₂ /Co/Pt/SiO ₂ multilayers. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012 , 280, 123-130	1.2	0
183	Thermo, Iono and photoluminescence properties of 100 MeV Si ⁷⁺ ions bombarded CaSiO ₃ :Eu ³⁺ nanophosphor. <i>Journal of Luminescence</i> , 2012 , 132, 2065-2071	3.8	27
182	Highly transparent and conducting boron doped zinc oxide films for window of Dye Sensitized Solar Cell applications. <i>Journal of Alloys and Compounds</i> , 2012 , 544, 120-124	5.7	43
181	100MeV Si ⁸⁺ ion induced luminescence and thermoluminescence of nanocrystalline Mg ₂ SiO ₄ :Eu ³⁺ . <i>Journal of Luminescence</i> , 2012 , 132, 3093-3097	3.8	48
180	White and UV Emission from Swift Ion Irradiation Modified Zinc Oxide-Porous Silicon Nanocomposite through Cathodoluminescence Spectroscopy. <i>Physica Procedia</i> , 2012 , 29, 12-17		2
179	Nanotwinning in CdS quantum dots. <i>Physica B: Condensed Matter</i> , 2012 , 407, 3347-3351	2.8	39
178	Disorder induced semiconductor to metal transition and modifications of grain boundaries in nanocrystalline zinc oxide thin film. <i>Journal of Applied Physics</i> , 2012 , 112, 073101	2.5	18

177	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> , 2012 , 258, 2283-2288	6.7	20
176	Luminescence and defect studies of YAlO ₃ :Dy ³⁺ , Sm ³⁺ single crystals exposed to 100 MeV Si ⁷⁺ ion beam. <i>Journal of Luminescence</i> , 2012 , 132, 2679-2683	3.8	14
175	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> , 2012 , 177, 1476-1481	3.1	11
174	Modification of optical and electrical properties of zinc oxide-coated porous silicon nanostructures induced by swift heavy ion. <i>Nanoscale Research Letters</i> , 2012 , 7, 366	5	21
173	Optical and dielectric properties of 55 MeV carbon beam-irradiated polycarbonate films. <i>Radiation Effects and Defects in Solids</i> , 2012 , 167, 131-140	0.9	13
172	Softening of phonons by lattice defects and structural strain in heavy ion irradiated nanocrystalline zinc oxide films. <i>Journal of Applied Physics</i> , 2011 , 110, 083520	2.5	51
171	Swift heavy ion interaction with silver-silica nanocomposites: an experimental surface plasmon resonance study. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 325101	3	15
170	Enhancement of LPG sensing properties in nanocrystalline zinc oxide thin film by high electronic excitation. <i>Sensors and Actuators B: Chemical</i> , 2011 , 160, 1050-1055	8.5	10
169	Ionoluminescence studies of combustion synthesized Dy ³⁺ doped nano crystalline forsterite. <i>Current Applied Physics</i> , 2011 , 11, 1274-1277	2.6	31
168	Effect of ion beam irradiation on metal particle doped polymer composites. <i>Bulletin of Materials Science</i> , 2011 , 34, 81-88	1.7	30
167	Investigation of swift heavy ion-induced mixing in metal/polymer systems. <i>Radiation Effects and Defects in Solids</i> , 2011 , 166, 682-688	0.9	9
166	Growth kinetics of ZnO nanocrystallites: Structural, optical and photoluminescence properties tuned by thermal annealing. <i>Current Applied Physics</i> , 2011 , 11, 624-630	2.6	41
165	Optical absorption and thermoluminescence studies in 100MeV swift heavy ion irradiated CaF ₂ crystals. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011 , 269, 185-188	1.2	9
164	Luminescence studies on swift heavy ion irradiated nanocrystalline aluminum oxide. <i>Journal of Luminescence</i> , 2011 , 131, 764-767	3.8	12
163	Structural and spectroscopic modifications of nanocrystalline zinc oxide films induced by swift heavy ions. <i>Vacuum</i> , 2011 , 86, 87-90	3.7	13
162	Synthesis of nanocrystalline β -Zn ₂ SiO ₄ at ZnO/porous silicon interface: Phase transition study. <i>Solid State Communications</i> , 2011 , 151, 701-703	1.6	19
161	The effect of SHI irradiation on structural, thermal and dielectric properties of a silver nanoparticle-embedded polystyrene matrix. <i>Radiation Effects and Defects in Solids</i> , 2011 , 166, 585-591	0.9	2
160	120 MeV Ag ⁹⁺ Ions Induced Ionoluminescence of SrS:Ce 2011 ,		4

159	100 MeV Ag ions irradiation effects on the optical properties of Ag _{0.10} (Ge _{0.20} Se _{0.80}) _{0.90} thin films. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 095302	3	5
158	Improved Photoelectrochemical Response of Titanium Dioxide Irradiated with 120 MeV Ag ⁹⁺ Ions. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 622-626	3.8	22
157	Ion Beam Induced Modification of Metal Nanoparticles Dispersed Polymeric Films. <i>Integrated Ferroelectrics</i> , 2010 , 117, 97-103	0.8	1
156	Synthesis of ZnO nanostructures using different metal catalyst: morphology and photoluminescence characteristics. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 2933-7	1.3	5
155	Effects of an oxygen-ion beam (O ⁷⁺ , 100 MeV) and γ irradiation on polypyrrole films. <i>Journal of Applied Polymer Science</i> , 2010 , 115, 2502-2507	2.9	10
154	Luminescence study of SHI irradiated nano semiconductor: Conducting polymer composite. <i>Journal of Luminescence</i> , 2010 , 130, 326-330	3.8	7
153	Low temperature resistivity study of nanostructured polypyrrole films under electronic excitations. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010 , 268, 62-66	1.2	17
152	Positron annihilation lifetime and Doppler broadening study in 50MeV Li ³⁺ ion irradiated polystyrene films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010 , 268, 1809-1812	1.2	3
151	Study of modifications in Lexan polycarbonate induced by swift O ⁶⁺ ion irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010 , 268, 1813-1817	1.2	13
150	Ion tracks in silica for engineering the embedded nanoparticles. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010 , 268, 3027-3034	1.2	72
149	Origin of swift heavy ion induced stress in textured ZnO thin films: An in situ X-ray diffraction study. <i>Solid State Communications</i> , 2010 , 150, 1751-1754	1.6	34
148	Ion beam induced interface mixing of Ni on PTFE bilayer system studied by quadrupole mass analysis and electron spectroscopy for chemical analysis. <i>Vacuum</i> , 2010 , 84, 1275-1279	3.7	21
147	Thickness dependent effect of swift heavy ion irradiation in W/Ni superlattice multilayers. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 145414	3	10
146	Electrical characterization of 100 MeV heavy ion irradiated Au/p-Cu _{1.4S} Schottky barrier diodes. <i>Radiation Effects and Defects in Solids</i> , 2009 , 164, 31-37	0.9	0
145	Perpendicular magnetization of FePt particles in silica induced by swift heavy ion irradiation. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 025005	3	21
144	Determination of the chemical states of impurities in natural kyanite by the ionoluminescence technique. <i>Philosophical Magazine</i> , 2009 , 89, 995-1004	1.6	13
143	Electronic excitation induced tuning of surface plasmon resonance of Ag nanoparticles in fullerene C ₇₀ matrix. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 155103	3	51
142	SHI induced surface modifications of immiscible Fe/Bi bilayer system. <i>Surface and Coatings Technology</i> , 2009 , 203, 2399-2402	4.4	3

141	Modifications of structural, optical and electrical properties of nanocrystalline bismuth sulphide by using swift heavy ions. <i>Current Applied Physics</i> , 2009 , 9, 374-379	2.6	22
140	Shape deformation of embedded metal nanoparticles by swift heavy ion irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009 , 267, 936-940	1.2	31
139	Investigations on the in vitro bioactivity of swift heavy oxygen ion irradiated hydroxyapatite. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20 Suppl 1, S271-5	4.5	32
138	Photoluminescence and Raman studies in swift heavy ion irradiated polycrystalline aluminum oxide. <i>Bulletin of Materials Science</i> , 2009 , 32, 515-519	1.7	27
137	Interaction of oxygen (O ⁷⁺) ion beam on polyaniline thin films. <i>Indian Journal of Physics</i> , 2009 , 83, 943-947	1.4	9
136	Study of structure and optical luminescence of C ⁶⁺ (80 MeV) ion irradiated CdS: Fe system. <i>Indian Journal of Physics</i> , 2009 , 83, 1659-1665	1.4	9
135	o-Ps lifetime, free volume and Doppler broadening spectroscopy (DBS) studies of 50 MeV Li ³⁺ ion irradiated polystyrene. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, 2435-2437		1
134	Li ³⁺ ion irradiation effects on polyamide nylon6,6 studied by positron annihilation lifetime and Doppler broadening spectroscopy. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, 2442-2444		1
133	Electronic excitations induced modifications of structural and optical properties of ZnO/porous silicon nanocomposites. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009 , 267, 2399-2402	1.2	25
132	Effect of intense laser and energetic ion irradiation on Raman modes of Multiwalled Carbon Nanotubes. <i>Thin Solid Films</i> , 2009 , 517, 4322-4324	2.2	16
131	Swift heavy ion irradiation induced phase transformation in calcite single crystals. <i>Solid State Communications</i> , 2009 , 149, 1905-1908	1.6	5
130	Synthesis of silica: Metals nanocomposites and modification of their structure by swift heavy ion irradiation. <i>Surface and Coatings Technology</i> , 2009 , 203, 2432-2435	4.4	13
129	Swift heavy ion induced structural modification of atom beam sputtered ZnO thin film. <i>Surface and Coatings Technology</i> , 2009 , 203, 2427-2431	4.4	22
128	Photoluminescence studies of 100 MeV Ni ⁸⁺ ion irradiated Al ₂ O ₃ single crystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009 , 73, 637-41	4.4	9
127	Raman and infrared study of 100MeV swift Ag ⁸⁺ heavy ion irradiation effects in CaSO ₄ ·2H ₂ O single crystals. <i>Journal of Alloys and Compounds</i> , 2009 , 482, 308-312	5.7	6
126	A comparative study of ion-induced damages in C ₆₀ and C ₇₀ fullerenes. <i>Radiation Effects and Defects in Solids</i> , 2009 , 164, 38-48	0.9	29
125	White light emission from chemically synthesized ZnO/porous silicon nanocomposite. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 062002	3	43
124	Some Structural Modifications At The Nanometric Scale Induced By Swift Heavy Ion Irradiation. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2009 , 145-151	0.2	1

123	Effect of swift heavy ion irradiation on bare and coated ZnS quantum dots. <i>Materials Research Bulletin</i> , 2008 , 43, 3495-3505	5.1	10
122	On the origin of photoluminescence in indium oxide octahedron structures. <i>Applied Physics Letters</i> , 2008 , 92, 171907	3.4	85
121	Structural, optical, electrical and positron annihilation studies of CdS:Fe system. <i>Journal of Alloys and Compounds</i> , 2008 , 454, 97-101	5.7	31
120	Study of C6+ (80 MeV) ion induced effects on CdS:Mn system. <i>Journal of Alloys and Compounds</i> , 2008 , 459, 118-122	5.7	3
119	An investigation on the variations in properties of Ni+ irradiated ZnO thin films. <i>Radiation Effects and Defects in Solids</i> , 2008 , 163, 635-644	0.9	3
118	Ion Beam Modification of Polymethyl methacrylate (PMMA) Polymer Matrix Filled with Organometallic Complex. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2008 , 45, 265-270	2.7	12
117	Synthesis and characterizations of silver-fullerene C70 nanocomposite. <i>Applied Physics Letters</i> , 2008 , 93, 103114	3.4	41
116	Conducting carbon nanopatterns (nanowire) by energetic ion irradiation. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 095304	3	9
115	Studies on high electronic energy deposition in transparent conducting indium tin oxide thin films. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 035308	3	9
114	Thermal and ion induced annealing of nanocrystalline ZnO thin film deposited by atom beam sputtering. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 045305	3	31
113	A comparative study of the effect of O+7ion beam on polypyrrole and CR-39 (DOP) polymers. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 115411	3	32
112	Effects of swift heavy ions irradiation on polypyrrole thin films. <i>Radiation Effects and Defects in Solids</i> , 2008 , 163, 139-147	0.9	26
111	AFM and photoluminescence studies of swift heavy ion induced nanostructured aluminum oxide thin films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008 , 266, 1049-1054	1.2	16
110	Ion beam induced modifications in electron beam evaporated aluminum oxide thin films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008 , 266, 1475-1479	1.2	7
109	Pulsed laser deposition of SiC thin films at medium substrate temperatures. <i>Thin Solid Films</i> , 2008 , 516, 6083-6087	2.2	18
108	Thermally stimulated luminescence studies in combustion synthesized polycrystalline aluminum oxide. <i>Bulletin of Materials Science</i> , 2008 , 31, 669-672	1.7	11
107	Swift heavy ion induced modification in dielectric and microhardness properties of polymer composites. <i>Polymer Degradation and Stability</i> , 2008 , 93, 1088-1093	4.7	23
106	Thermoluminescence studies in swift heavy ion irradiated aluminum oxide. <i>Radiation Measurements</i> , 2008 , 43, S651-S655	1.5	44

105	Effect of swift heavy ion irradiation on the physical properties of CuIn(S _{0.4} Se _{0.6}) ₂ alloy thin films prepared by solution growth technique. <i>Radiation Physics and Chemistry</i> , 2008 , 77, 794-798	2.5	6
104	Damage creation in swift heavy ion-irradiated calcite single crystals: Raman and infrared study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008 , 71, 1070-3	4.4	11
103	Ionoluminescence and photoluminescence studies of Ag ⁸⁺ ion irradiated kyanite. <i>Journal of Luminescence</i> , 2008 , 128, 7-10	3.8	15
102	Ion beam-induced luminescence and photoluminescence of 100 MeV Si ⁸⁺ ion irradiated kyanite single crystals. <i>Solid State Communications</i> , 2008 , 147, 377-380	1.6	11
101	Structure and magnetic properties of ZnO films doped with Co, Ni or Mn synthesized by pulsed laser deposition under low and high oxygen partial pressures. <i>Thin Solid Films</i> , 2008 , 517, 916-922	2.2	52
100	X-ray photoelectron and X-ray Auger electron spectroscopy studies of heavy ion irradiated C ₆₀ films. <i>Applied Surface Science</i> , 2008 , 254, 7280-7284	6.7	6
99	Positron lifetime studies of the dose dependence of nanohole free volumes in ion-irradiated conducting poly-(ethylene-oxide) salt polymers. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008 , 266, 1783-1787	1.2	11
98	Oxygen intake in ion irradiated fullerene films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008 , 266, 1709-1712	1.2	3
97	Study of optical band gap and carbonaceous clusters in swift heavy ion irradiated polymers with UV-vis spectroscopy. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008 , 266, 1788-1792	1.2	62
96	Modification of polymer composite films using 120MeV Ni ¹⁰⁺ ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008 , 266, 1775-1779	1.2	14
95	Effect of swift heavy ion irradiation on hydrothermally synthesized hydroxyapatite ceramics. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008 , 266, 911-917	1.2	21
94	Studies on the high electronic energy deposition in polyaniline thin films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008 , 266, 2002-2008	1.2	6
93	Smoothing, roughening and sputtering: the complex evolution of immiscible Fe/Bi bilayer system. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 215306	3	14
92	Photoluminescence studies of ZnO/porous silicon nanocomposites. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 3090-3093	3	57
91	Setup for in situ x-ray diffraction study of swift heavy ion irradiated materials. <i>Review of Scientific Instruments</i> , 2007 , 78, 113901	1.7	28
90	Thermal degradation and ageing behavior of microcomposites of natural rubber, carboxylated styrene butadiene rubber latices, and their blends. <i>Journal of Applied Polymer Science</i> , 2007 , 105, 341-351	2.9	13
89	Ion beam modification of nickel dimethylglyoxime dispersed polymer films. <i>Surface and Coatings Technology</i> , 2007 , 201, 8225-8229	4.4	8
88	Swift heavy ion induced modification in polyimide films. <i>Surface and Coatings Technology</i> , 2007 , 201, 8308-8311	4.4	14

87	Structural damage studies in conducting indium-tin oxide (ITO) thin films induced by Au ⁸⁺ swift heavy ions (SHI) irradiation. <i>Vacuum</i> , 2007 , 82, 39-44	3.7	21
86	Synthesis of GaN phase by ion implantation. <i>Applied Surface Science</i> , 2007 , 253, 5317-5319	6.7	9
85	Synthesis and characterization of embedded SiC phase. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007 , 254, 78-82	1.2	6
84	Influence of grain size on electronic sputtering of LiF thin films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007 , 256, 328-332	1.2	25
83	Study of the damage produced in K[CS(NH ₂) ₂] ₄ Br a non-linear optical single crystal by swift heavy ion irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007 , 256, 675-682	1.2	18
82	Structural studies of Ge nanocrystals embedded in SiO ₂ matrix. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007 , 264, 249-253	1.2	10
81	Modifications of polycarbonate induced by swift heavy ions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 457, 195-198	5.3	24
80	Study of effects of Mn ²⁺ in CdS nanocrystals. <i>Physica B: Condensed Matter</i> , 2007 , 400, 70-76	2.8	25
79	Photoluminescence properties of SHI induced F ₂ and F ₃₊ color centers in nano-granular LiF thin films. <i>Journal of Luminescence</i> , 2007 , 127, 302-306	3.8	21
78	Swift heavy ion induced effects in LiF thin films. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007 , 4, 1075-1078		3
77	Synthesis and luminescence properties of manganese-doped ZnS nanocrystals. <i>Solid-State Electronics</i> , 2007 , 51, 81-84	1.7	19
76	Effect of swift heavy ion irradiation on dielectrics properties of polymer composite films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007 , 137, 85-92	3.1	32
75	Swift heavy ion induced photoluminescence studies in Aluminum oxide. <i>Radiation Effects and Defects in Solids</i> , 2007 , 162, 325-332	0.9	18
74	Fabrication of carbon nanostructures (nanodots, nanowires) by energetic ion irradiation. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 2083-2088	3	12
73	Synthesis of confined electrically conducting carbon nanowires by heavy ion irradiation of fullerene thin film. <i>Journal of Applied Physics</i> , 2007 , 101, 014308	2.5	57
72	Synthesis of elongated Au nanoparticles in silica matrix by ion irradiation. <i>Applied Physics Letters</i> , 2007 , 91, 063103	3.4	98
71	Controlled growth of gold nanoparticles induced by ion irradiation: An in situ x-ray diffraction study. <i>Applied Physics Letters</i> , 2007 , 90, 073110	3.4	71
70	Nano-engineering by MeV Ion Beams. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1027, 1		

69	Effects of swift heavy ion irradiation and thermal annealing on nearly immiscible W/Ni multilayer structure. <i>Journal of Applied Physics</i> , 2007 , 102, 074310	2.5	16
68	Engineering of nanocrystalline cadmium sulfide thin films by using swift heavy ions. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 4850-4854	3	37
67	Magnetic force microscopy of nano-size magnetic domain ordering in heavy ion irradiated fullerene films. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 2201-5	1.3	4
66	Characterizations of pulsed laser deposited SiC thin films. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 4660-4665	3.9	24
65	Size effect on electronic sputtering of LiF thin films. <i>Journal of Applied Physics</i> , 2007 , 102, 083510	2.5	42
64	Gigantic irradiation effect of 100 MeV Au ⁸⁺ swift heavy ions on the copper sulfide thin films with different chemical compositions. <i>Radiation Effects and Defects in Solids</i> , 2007 , 162, 77-85	0.9	15
63	Li ³⁺ ion irradiation effects on ionic conduction in P(VDF/FP)(PC+DEC)LiClO ₄ gel polymer electrolyte system. <i>Solid State Ionics</i> , 2006 , 177, 2575-2579	3.3	18
62	Optical activation of Eu ³⁺ ions by Ag nanoparticles in ion exchanged silica-gel films. <i>Journal Physics D: Applied Physics</i> , 2006 , 39, 2955-2958	3	17
61	Synthesis of buried SiC using an energetic ion beam. <i>Journal Physics D: Applied Physics</i> , 2006 , 39, 3969-3973		23
60	Studies of swift heavy ion induced colour centres in LiF thin films deposited on silica substrates. <i>Journal Physics D: Applied Physics</i> , 2006 , 39, 2935-2940	3	12
59	Study of Li ³⁺ ion irradiation effects in P(VDF/FP) based gel polymer electrolytes for application in Li-ion battery. <i>Journal Physics D: Applied Physics</i> , 2006 , 39, 4208-4214	3	24
58	Dependence of hydrogen released on the charge state of incident ions. <i>Radiation Effects and Defects in Solids</i> , 2006 , 161, 331-338	0.9	3
57	Ferromagnetism induced by heavy-ion irradiation in fullerene films. <i>Physical Review B</i> , 2006 , 74,	3.3	44
56	Synthesis and characterization of ZnO thin film grown by electron beam evaporation. <i>Journal of Applied Physics</i> , 2006 , 99, 123105	2.5	107
55	Single phase formation of Co-implanted ZnO thin films by swift heavy ion irradiation: Optical studies. <i>Journal of Applied Physics</i> , 2006 , 100, 113708	2.5	43
54	Effects of 160 MeV Ni ¹²⁺ ion irradiation on HCl doped polyaniline electrode. <i>Journal Physics D: Applied Physics</i> , 2006 , 39, 750-755	3	88
53	Scanning probe microscopy, luminescence and third harmonic generation studies of elongated CdS:Mn nanostructures developed by energetic oxygen-ion-impact. <i>EPJ Applied Physics</i> , 2006 , 35, 29-36	1.1	8
52	Effects of oxygen ion implantation in spray-pyrolyzed ZnO thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 860-867	1.6	10

51	Spectroscopic studies of swift heavy ion irradiated nanophase mullite. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 244, 31-33	1.2	6
50	Growth of ZnO nanocrystals in silica by rf co-sputter deposition and post-annealing. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 244, 91-94	1.2	24
49	Nanostructure formation on zinc oxide film by ion bombardment. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 244, 78-80	1.2	14
48	Infrared studies of swift heavy ion irradiated C60 thin films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 244, 221-224	1.2	18
47	Photoluminescence and UV-vis studies of pre- and post-irradiated sapphire with 200MeV Ag ⁸⁺ ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 244, 187-189	1.2	8
46	Swift heavy ion induced optical modifications in LiF thin films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 244, 183-186	1.2	10
45	Luminescence studies in swift heavy ion irradiated aluminum silicates. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 244, 153-156	1.2	2
44	Effect of swift heavy ions of silver and oxygen on GaN. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 244, 145-148	1.2	17
43	Photoluminescence study of swift heavy ion (SHI) induced defect centers in sapphire. <i>Journal of Nuclear Materials</i> , 2006 , 353, 190-192	3.3	23
42	Modifications of electronic transport behaviour of 250MeV Ag ion irradiated La _{0.75} Ca _{0.25} MnO ₃ thin films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 244, 110-114	1.2	4
41	Precipitation of semiconducting carbon nanoparticles in ion irradiated gels. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 244, 23-26	1.2	7
40	SHI induced modification of ZnO thin film: Optical and structural studies. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 244, 136-140	1.2	83
39	Changes in volume fraction and magnetostriction of iron nanoparticles in silica under swift heavy ion irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 245, 214-218	1.2	8
38	Ion beam modification and analysis of organometallics dispersed polymer films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 244, 235-238	1.2	8
37	Ionic conduction studies in Li ³⁺ ion irradiated P(VDF-HFP)(PC+DEC)LiCF ₃ SO ₃ gel polymer electrolyte. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 244, 230-234	1.2	5
36	Electrical transport study of structural phase transitions in C60 films and the effect of swift heavy ion irradiation. <i>Solid State Communications</i> , 2006 , 138, 448-451	1.6	9
35	Influence of ion bombardment on the photoluminescence response of embedded CdS nanoparticles. <i>Open Physics</i> , 2006 , 4,	1.3	8
34	Properties of 80-MeV oxygen ion irradiated ZnS:Mn nanoparticles and exploitation in nanophotonics. <i>Journal of Nanoparticle Research</i> , 2006 , 8, 645-652	2.3	7

33	Modifications of ZnO thin films under dense electronic excitation. <i>Journal of Applied Physics</i> , 2005 , 97, 013509	2.5	68
32	Photoluminescence studies on RF plasma-polymerized thin films. <i>Synthetic Metals</i> , 2005 , 155, 311-315	3.6	14
31	On the properties of indium doped ZnO thin films. <i>Semiconductor Science and Technology</i> , 2005 , 20, 120-126	1.2	131
30	Photoluminescence studies of carbon clusters formed by irradiation of Si-based polymer. <i>Radiation Measurements</i> , 2005 , 40, 785-788	1.5	11
29	Effects of 160MeV Ni ¹²⁺ ion irradiation on polypyrrole conducting polymer electrode materials for all polymer redox supercapacitor. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 240, 834-841	1.2	38
28	Effect of fluorine doping on structural, electrical and optical properties of ZnO thin films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005 , 117, 307-312	3.1	81
27	Precipitation of C, Si and metals nanoparticles in silicon-based gels induced by swift heavy ion irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 236, 73-80	1.2	9
26	Ion irradiation induced surface modification studies of polymers using SPM. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 236, 186-194	1.2	25
25	Controlled growth of silicon nanocrystallites in silicon oxide matrix using 150MeV Ag ion irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 239, 185-190	1.2	22
24	Study of 160MeV Ni ¹²⁺ ion irradiation effects on electrodeposited polypyrrole films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 240, 871-880	1.2	42
23	Ionic conduction in 70 MeV C ⁵⁺ ion-irradiated P(VDF-HFP)(PC+DEC)LiCF ₃ SO ₃ gel polymer electrolyte system. <i>Solid State Ionics</i> , 2005 , 176, 1585-1590	3.3	20
22	Swift heavy ion induced structural and optical modifications in LiF thin film. <i>Journal Physics D: Applied Physics</i> , 2005 , 38, 637-641	3	50
21	Ionic conduction in 70-MeV C ⁵⁺ -ion-irradiated poly(vinylidene fluoride-co-hexafluoropropylene)-based gel polymer electrolytes. <i>Journal of Applied Physics</i> , 2005 , 98, 043514	2.5	15
20	Investigation of the precipitation kinetics and changes of magnetic anisotropy of iron particles in ion-irradiated silica gel films by means of electron-spin resonance. <i>Journal of Applied Physics</i> , 2005 , 98, 023908	2.5	12
19	Photoluminescence and atomic force microscopy studies on pre- and post-irradiated ruby with Fe ³⁺ ion. <i>Radiation Effects and Defects in Solids</i> , 2004 , 159, 315-320	0.9	1
18	Nucleation and growth of Ag clusters in silicate glasses under ion irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004 , 215, 373-384	1.2	41
17	Photoluminescence and atomic force microscopic studies on pre- and post-irradiated ruby with Ni ⁶⁺ ion. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004 , 222, 533-537	1.2	3
16	Irradiation of large area Mylar membrane and characterization of nuclear track filter. <i>Bulletin of Materials Science</i> , 2004 , 27, 417-420	1.7	3

15	Ion beam modification of porous silicon using high energy Au ⁺⁷ ions and its impact on photoluminescence spectra. <i>Journal of Luminescence</i> , 2004 , 106, 21-29	3.8	17
14	Properties of nanocrystalline ZnS:Mn. <i>Journal of Crystal Growth</i> , 2004 , 268, 585-589	1.6	40
13	Structure and photoluminescence studies on ZnS:Mn nanoparticles. <i>Journal of Applied Physics</i> , 2004 , 95, 656-660	2.5	173
12	Swift heavy ion irradiation induced modifications in sapphire. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003 , 212, 179-183	1.2	22
11	Photoluminescence studies in swift heavy ion bombarded mullite. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003 , 211, 545-548	1.2	17
10	Ionoluminescence and photoluminescence in swift heavy ion-irradiated Al ₂ SiO ₅ . <i>Radiation Measurements</i> , 2003 , 36, 643-646	1.5	7
9	Thermoluminescence studies of Si ⁺⁸ ion irradiated kyanite. <i>Radiation Measurements</i> , 2003 , 36, 653-655	1.5	6
8	Optical absorption and photoluminescence studies on thin films and bulk crystals of LiF under swift heavy ion irradiation. <i>Radiation Measurements</i> , 2003 , 36, 675-679	1.5	9
7	Color center formation in sapphire by swift heavy ion irradiation. <i>Radiation Measurements</i> , 2003 , 36, 723-727	1.7	24
6	Thermoluminescence and photoluminescence characteristics of nanocrystalline LiNaSO ₄ ·Eu phosphor. <i>Journal Physics D: Applied Physics</i> , 2003 , 36, 2400-2406	3	46
5	Modifying the nanocrystalline characteristics: structure, size, and surface states of copper oxide thin films by high-energy heavy-ion irradiation. <i>Journal of Applied Physics</i> , 2002 , 92, 3304-3310	2.5	99
4	Effect of substrate temperature on the physical properties of copper nitride films by r.f. reactive sputtering. <i>Surface and Coatings Technology</i> , 2001 , 142-144, 1034-1039	4.4	56
3	Radiation hardness of Ge ₂ Sb ₂ Te ₅ thin films to 80 MeV Si ion irradiation. <i>Radiation Effects and Defects in Solids</i> , 1-10	0.9	0
2	Investigation of radiation damage using thermal spike model for SHI irradiation on Al ₂ O ₃ . <i>Radiation Effects and Defects in Solids</i> , 1-18	0.9	0
1	Plasmonic Engineering of TiO ₂ Photoanodes for Dye-Sensitized Solar Cells: A Review. <i>Journal of Electronic Materials</i> ,	1.9	0