

Fouran Singh

List of Publications by Year in descending order

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367
papers

7,937
citations

66336

42
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98792

67
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369
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369
docs citations

369
times ranked

6499
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	4.0	597
2	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.	2.3	226
3	Structure and photoluminescence studies on ZnS:Mn nanoparticles. <i>Journal of Applied Physics</i> , 2004, 95, 656-660.	2.5	196
4	Band gap widening and narrowing in Cu-doped ZnO thin films. <i>Journal of Alloys and Compounds</i> , 2016, 680, 252-258.	5.5	148
5	On the properties of indium doped ZnO thin films. <i>Semiconductor Science and Technology</i> , 2005, 20, 120-126.	2.0	144
6	Synthesis and characterization of ZnO thin film grown by electron beam evaporation. <i>Journal of Applied Physics</i> , 2006, 99, 123105.	2.5	118
7	Modifying the nanocrystalline characteristicsâ€”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	111
8	Synthesis of elongated Au nanoparticles in silica matrix by ion irradiation. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	105
9	Effects of 160â€‰%MeV Ni ¹²⁺ ion irradiation on HCl doped polyaniline electrode. <i>Journal Physics D: Applied Physics</i> , 2006, 39, 750-755.	2.8	95
10	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.	3.5	91
11	On the origin of photoluminescence in indium oxide octahedron structures. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	91
12	SHI induced modification of ZnO thin film: Optical and structural studies. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006, 244, 136-140.	1.4	89
13	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.	3.3	86
14	Ion tracks in silica for engineering the embedded nanoparticles. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 3027-3034.	1.4	80
15	Controlled growth of gold nanoparticles induced by ion irradiation: An in situ x-ray diffraction study. <i>Applied Physics Letters</i> , 2007, 90, 073110.	3.3	79
16	Highly selective and reversible NO ₂ gas sensor using vertically aligned MoS ₂ flake networks. <i>Nanotechnology</i> , 2018, 29, 464001.	2.6	79
17	Study of optical band gap and carbonaceous clusters in swift heavy ion irradiated polymers with UVâ€”Vis spectroscopy. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 1788-1792.	1.4	78
18	Modifications of ZnO thin films under dense electronic excitation. <i>Journal of Applied Physics</i> , 2005, 97, 013509.	2.5	75

#	ARTICLE	IF	CITATIONS
19	Effect of Br ⁺ ions on the structural, morphological and luminescent properties of ZnO/Si thin films. <i>Applied Surface Science</i> , 2013, 279, 472-478.	6.1	68
20	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.	4.8	65
21	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.	2.8	63
22	Photoluminescence studies of ZnO/porous silicon nanocomposites. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 3090-3093.	2.8	62
23	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	61
24	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.	1.8	59
25	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, .	2.5	59
26	Thermoluminescence and photoluminescence characteristics of nanocrystalline LiNaSO ₄ :Eu phosphor. <i>Journal Physics D: Applied Physics</i> , 2003, 36, 2400-2406.	2.8	56
27	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.	3.9	56
28	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.	2.8	55
29	Swift heavy ion induced structural and optical modifications in LiF thin film. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 637-641.	2.8	53
30	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.	3.1	52
31	Ferromagnetism induced by heavy-ion irradiation in fullerene films. <i>Physical Review B</i> , 2006, 74, .	3.2	50
32	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.	5.5	48
33	Size effect on electronic sputtering of LiF thin films. <i>Journal of Applied Physics</i> , 2007, 102, .	2.5	47
34	Thermoluminescence studies in swift heavy ion irradiated aluminum oxide. <i>Radiation Measurements</i> , 2008, 43, S651-S655.	1.4	46
35	Purification/annealing of graphene with 100-MeV Ag ion irradiation. <i>Nanoscale Research Letters</i> , 2014, 9, 126.	5.7	46
36	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.	1.4	45

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37	White light emission from chemically synthesized ZnO porous silicon nanocomposite. Journal Physics D: Applied Physics, 2009, 42, 062002.	2.8	45
38	Study of 160MeV Ni ¹²⁺ ion irradiation effects on electrodeposited polypyrrole films. Nuclear Instruments & Methods in Physics Research B, 2005, 240, 871-880.	1.4	44
39	Single phase formation of Co-implanted ZnO thin films by swift heavy ion irradiation: Optical studies. Journal of Applied Physics, 2006, 100, 113708.	2.5	44
40	Growth kinetics of ZnO nanocrystallites: Structural, optical and photoluminescence properties tuned by thermal annealing. Current Applied Physics, 2011, 11, 624-630.	2.4	44
41	Nanotwinning in CdS quantum dots. Physica B: Condensed Matter, 2012, 407, 3347-3351.	2.7	44
42	Micro-Raman study on the softening and stiffening of phonons in rutile titanium dioxide film: Competing effects of structural defects, crystallite size, and lattice strain. Journal of Applied Physics, 2014, 115, .	2.5	44
43	Properties of nanocrystalline ZnS:Mn. Journal of Crystal Growth, 2004, 268, 585-589.	1.5	43
44	Synthesis and characterizations of silver-fullerene C70 nanocomposite. Applied Physics Letters, 2008, 93, .	3.3	42
45	Effects of 160MeV Ni ¹²⁺ ion irradiation on polypyrrole conducting polymer electrode materials for all polymer redox supercapacitor. Nuclear Instruments & Methods in Physics Research B, 2005, 240, 834-841.	1.4	40
46	Engineering of nanocrystalline cadmium sulfide thin films by using swift heavy ions. Journal Physics D: Applied Physics, 2007, 40, 4850-4854.	2.8	39
47	Effect of swift heavy ion irradiation on dielectrics properties of polymer composite films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 137, 85-92.	3.5	37
48	Shape deformation of embedded metal nanoparticles by swift heavy ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 936-940.	1.4	36
49	Origin of swift heavy ion induced stress in textured ZnO thin films: An in situ X-ray diffraction study. Solid State Communications, 2010, 150, 1751-1754.	1.9	36
50	Effect of ion beam irradiation on metal particle doped polymer composites. Bulletin of Materials Science, 2011, 34, 81-88.	1.7	36
51	Investigations on the in vitro bioactivity of swift heavy oxygen ion irradiated hydroxyapatite. Journal of Materials Science: Materials in Medicine, 2009, 20, 271-275.	3.6	35
52	Composition dependent Fermi level shifting of Au decorated MoS ₂ nanosheets. Applied Physics Letters, 2016, 108, .	3.3	35
53	Development of WO ₃ -PEDOT: PSS hybrid nanocomposites based devices for liquefied petroleum gas (LPG) sensor. Journal of Materials Science: Materials in Electronics, 2019, 30, 13593-13603.	2.2	35
54	Setup for in situ x-ray diffraction study of swift heavy ion irradiated materials. Review of Scientific Instruments, 2007, 78, 113901.	1.3	34

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55	Structural, optical, electrical and positron annihilation studies of CdS:Fe system. Journal of Alloys and Compounds, 2008, 454, 97-101.	5.5	34
56	Thermal and ion induced annealing of nanocrystalline ZnO thin film deposited by atom beam sputtering. Journal Physics D: Applied Physics, 2008, 41, 045305.	2.8	34
57	A comparative study of the effect of O ⁺⁷ ion beam on polypyrrole and CR-39 (DOP) polymers. Journal Physics D: Applied Physics, 2008, 41, 115411.	2.8	34
58	Photoluminescence and Raman studies in swift heavy ion irradiated polycrystalline aluminum oxide. Bulletin of Materials Science, 2009, 32, 515-519.	1.7	34
59	A comparative study of ion-induced damages in C60 and C70 fullerenes. Radiation Effects and Defects in Solids, 2009, 164, 38-48.	1.2	34
60	Effect Of Swift Heavy Ion On Structural And Optical Properties Of Undoped And Doped Nanocrystalline Zinc Oxide Films. Advanced Materials Letters, 2013, 4, 423-427.	0.6	34
61	Ionoluminescence studies of combustion synthesized Dy ³⁺ doped nano crystalline forsterite. Current Applied Physics, 2011, 11, 1274-1277.	2.4	33
62	Synthesis characterization and luminescence studies of 100MeV Si ⁸⁺ ion irradiated sol gel derived nanocrystalline Y2O3. Nuclear Instruments & Methods in Physics Research B, 2014, 329, 40-47.	1.4	33
63	Effect of Annealing on the Surface Morphology, Optical and Structural Properties of Nanodimensional Tungsten Oxide Prepared by Coprecipitation Technique. Journal of Electronic Materials, 2019, 48, 1174-1183.	2.2	33
64	Giant enhancement of the n-type conductivity in single phase p-type ZnO:N thin films by intentionally created defect clusters and pairs. Solid State Communications, 2015, 218, 20-24.	1.9	32
65	Effects of swift heavy ions irradiation on polypyrrole thin films. Radiation Effects and Defects in Solids, 2008, 163, 139-147.	1.2	31
66	SHI induced enhancement in green emission from nanocrystalline CdS thin films for photonic applications. Journal of Luminescence, 2014, 147, 184-189.	3.1	30
67	Bimetallic Implanted Plasmonic Photoanodes for TiO ₂ Sensitized Third Generation Solar Cells. Scientific Reports, 2020, 10, 7657.	3.3	30
68	Micro-Raman and electronic structure study on kinetics of electronic excitations induced monoclinic-to-tetragonal phase transition in zirconium oxide films. RSC Advances, 2016, 6, 104425-104432.	3.6	29
69	Giant UV-sensitivity of ion beam irradiated nanocrystalline CdS thin films. RSC Advances, 2016, 6, 3642-3649.	3.6	29
70	Ion irradiation induced surface modification studies of polymers using SPM. Nuclear Instruments & Methods in Physics Research B, 2005, 236, 186-194.	1.4	28
71	Synthesis of buried SiC using an energetic ion beam. Journal Physics D: Applied Physics, 2006, 39, 3969-3973.	2.8	28
72	Characterizations of pulsed laser deposited SiC thin films. Journal of Non-Crystalline Solids, 2007, 353, 4660-4665.	3.1	28

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73	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.	3.5	28
74	Thermo, lono and photoluminescence properties of 100MeV Si7+ ions bombarded CaSiO3:Eu3+ nanophosphor. <i>Journal of Luminescence</i> , 2012, 132, 2065-2071.	3.1	28
75	Thermoluminescence of solâ€‘gel derived Y2O3:Nd3+ nanophosphor exposed to 100MeV Si8+ ions and gamma rays. <i>Journal of Alloys and Compounds</i> , 2015, 637, 564-573.	5.5	28
76	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.	1.8	28
77	Study of Li3+ion irradiation effects in P(VDFâ€‘HFP) based gel polymer electrolytes for application in Li-ion battery. <i>Journal Physics D: Applied Physics</i> , 2006, 39, 4208-4214.	2.8	27
78	Modifications of polycarbonate induced by swift heavy ions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 457, 195-198.	5.6	27
79	Study of effects of Mn2+ in CdS nanocrystals. <i>Physica B: Condensed Matter</i> , 2007, 400, 70-76.	2.7	27
80	Defect controlled ferromagnetism in xenon ion irradiated zinc oxide. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 385, 318-325.	2.3	27
81	Structural, lono and thermoluminescence properties of heavy ion (100MeV Si7+) bombarded Zn2SiO4:Sm3+ nanophosphor. <i>Journal of Luminescence</i> , 2013, 143, 409-417.	3.1	26
82	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, 3618-3627.	2.8	26
83	Color center formation in sapphire by swift heavy ion irradiation. <i>Radiation Measurements</i> , 2003, 36, 723-727.	1.4	25
84	Ionic conduction in 70 MeV C5+ ion-irradiated P(VDFâ€‘HFP)â€‘(PC+DEC)â€‘LiCF3SO3 gel polymer electrolyte system. <i>Solid State Ionics</i> , 2005, 176, 1585-1590.	2.7	25
85	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.	1.4	25
86	Photoluminescence study of swift heavy ion (SHI) induced defect centers in sapphire. <i>Journal of Nuclear Materials</i> , 2006, 353, 190-192.	2.7	25
87	Influence of grain size on electronic sputtering of LiF thin films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 256, 328-332.	1.4	25
88	Swift heavy ion induced modification in dielectric and microhardness properties of polymer composites. <i>Polymer Degradation and Stability</i> , 2008, 93, 1088-1093.	5.8	25
89	Electronic excitations induced modifications of structural and optical properties of ZnOâ€‘porous silicon nanocomposites. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009, 267, 2399-2402.	1.4	25
90	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.	4.8	25

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91	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.	2.6	25
92	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.	1.4	24
93	Effect of swift heavy ion irradiation on hydrothermally synthesized hydroxyapatite ceramics. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 911-917.	1.4	24
94	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.	2.4	24
95	Swift heavy ion induced structural modification of atom beam sputtered ZnO thin film. <i>Surface and Coatings Technology</i> , 2009, 203, 2427-2431.	4.8	24
96	Improved Photoelectrochemical Response of Titanium Dioxide Irradiated with 120 MeV Ag ⁹⁺ Ions. <i>Journal of Physical Chemistry C</i> , 2010, 114, 622-626.	3.1	24
97	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.	6.1	24
98	Thermoluminescence studies of ¹³⁷ Ir-irradiated Al ₂ O ₃ :Ce ³⁺ phosphor. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016, 379, 146-151.	1.4	24
99	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.	1.4	24
100	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.	3.5	24
101	Fabrication of plasmonic dye-sensitized solar cells using ion-implanted photoanodes. <i>RSC Advances</i> , 2019, 9, 20375-20384.	3.6	24
102	Swift heavy ion irradiation induced modifications in sapphire. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 212, 179-183.	1.4	23
103	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.	3.1	23
104	Perpendicular magnetization of FePt particles in silica induced by swift heavy ion irradiation. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 025005.	2.8	23
105	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.	5.7	23
106	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.	3.9	23
107	Swift heavy ion irradiation of ZnO nanoparticles embedded in silica: Radiation-induced deoxidation and shape elongation. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	23
108	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, .	2.5	23

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109	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.	3.5	22
110	Thermoluminescence properties of 100MeV Si ⁷⁺ swift heavy ions and UV irradiated CdSiO ₃ :Ce ³⁺ nanophosphor. <i>Journal of Luminescence</i> , 2013, 134, 358-368.	3.1	22
111	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.	3.7	22
112	Correlations of charge neutrality level with electronic structure and p-d hybridization. <i>Scientific Reports</i> , 2017, 7, 40843.	3.3	22
113	Synthesis and luminescence properties of manganese-doped ZnS nanocrystals. <i>Solid-State Electronics</i> , 2007, 51, 81-84.	1.4	21
114	Pulsed laser deposition of SiC thin films at medium substrate temperatures. <i>Thin Solid Films</i> , 2008, 516, 6083-6087.	1.8	21
115	Thermoluminescence studies of solid-state reaction derived and ¹³⁷ Ir-irradiated SrGd ₂ O ₄ :Eu ³⁺ phosphor. <i>Materials Research Bulletin</i> , 2017, 93, 318-324.	5.2	21
116	Synthesis and thermoluminescence studies of ¹³⁷ Ir-irradiated Dy ³⁺ doped SrGd ₂ O ₄ phosphor. <i>Materials Research Bulletin</i> , 2017, 94, 113-121.	5.2	21
117	n-ZnO/p-Si heterojunction nanodiodes based sensor for monitoring UV radiation. <i>Sensors and Actuators A: Physical</i> , 2018, 279, 351-360.	4.1	21
118	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.	2.6	20
119	Synthesis of nanocrystalline ¹³⁷ Ir - Zn ₂ SiO ₄ at ZnO/porous silicon interface: Phase transition study. <i>Solid State Communications</i> , 2011, 151, 701-703.	1.9	20
120	Luminescence properties of 100MeV swift Si ⁷⁺ ions irradiated nanocrystalline zirconium oxide. <i>Journal of Alloys and Compounds</i> , 2015, 647, 921-926.	5.5	20
121	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.	1.6	20
122	Improved optical properties of ion beam irradiated (K,Na)NbO ₃ thin films. <i>Journal of Alloys and Compounds</i> , 2020, 823, 153794.	5.5	20
123	Infrared studies of swift heavy ion irradiated C ₆₀ thin films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006, 244, 221-224.	1.4	19
124	Effect of swift heavy ions of silver and oxygen on GaN. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006, 244, 145-148.	1.4	19
125	Li ³⁺ ion irradiation effects on ionic conduction in P(VDF-HFP) (PC+DEC) LiClO ₄ gel polymer electrolyte system. <i>Solid State Ionics</i> , 2006, 177, 2575-2579.	2.7	19
126	Low temperature resistivity study of nanostructured polypyrrole films under electronic excitations. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 62-66.	1.4	19

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127	Disorder induced semiconductor to metal transition and modifications of grain boundaries in nanocrystalline zinc oxide thin film. Journal of Applied Physics, 2012, 112, .	2.5	19
128	Nanostructuring and wettability of ion treated Au thin films. Journal of Applied Physics, 2017, 122, .	2.5	19
129	Photoluminescence studies in swift heavy ion bombarded mullite. Nuclear Instruments & Methods in Physics Research B, 2003, 211, 545-548.	1.4	18
130	Ion beam modification of porous silicon using high energy Au ⁷⁺ ions and its impact on photoluminescence spectra. Journal of Luminescence, 2004, 106, 21-29.	3.1	18
131	Optical activation of Eu ³⁺ ions by Ag nanoparticles in ion exchanged silica-gel films. Journal Physics D: Applied Physics, 2006, 39, 2955-2958.	2.8	18
132	Swift heavy ion induced photoluminescence studies in Aluminum oxide. Radiation Effects and Defects in Solids, 2007, 162, 325-332.	1.2	18
133	Study of the damage produced in K[CS(NH ₂) ₂] ₄ Br – A non-linear optical single crystal by swift heavy ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2007, 256, 675-682.	1.4	18
134	Effect of intense laser and energetic ion irradiation on Raman modes of Multiwalled Carbon Nanotubes. Thin Solid Films, 2009, 517, 4322-4324.	1.8	18
135	Swift heavy ion irradiated SnO ₂ thin film sensor for efficient detection of SO ₂ gas. Nuclear Instruments & Methods in Physics Research B, 2016, 379, 219-223.	1.4	18
136	Ion beam induced luminescence studies of sol gel derived Y ₂ O ₃ :Dy ³⁺ nanophosphors. Journal of Luminescence, 2016, 169, 627-634.	3.1	18
137	Ion beam engineering in WO ₃ -PEDOT: PSS hybrid nanocomposite thin films for gas sensing measurement at room temperature. Inorganic Chemistry Communication, 2020, 119, 108000.	3.9	18
138	Ionic conduction in 70-MeV C ⁵⁺ -ion-irradiated poly(vinylidene fluoride-co-hexafluoropropylene)-based gel polymer electrolytes. Journal of Applied Physics, 2005, 98, 043514.	2.5	17
139	Photoluminescence studies on RF plasma-polymerized thin films. Synthetic Metals, 2005, 155, 311-315.	3.9	17
140	Nanostructure formation on zinc oxide film by ion bombardment. Nuclear Instruments & Methods in Physics Research B, 2006, 244, 78-80.	1.4	17
141	AFM and photoluminescence studies of swift heavy ion induced nanostructured aluminum oxide thin films. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 1049-1054.	1.4	17
142	Swift heavy ion interaction with silver-silica nanocomposites: an experimental surface plasmon resonance study. Journal Physics D: Applied Physics, 2011, 44, 325101.	2.8	17
143	Luminescence and defect studies of YAlO ₃ :Dy ³⁺ , Sm ³⁺ single crystals exposed to 100 MeV Si ⁷⁺ ion beam. Journal of Luminescence, 2012, 132, 2679-2683.	3.1	17
144	Carrier transport mechanism of highly-sensitive niobium doped titanium dioxide/p-Si heterojunction photodiode under illuminations by solar simulated light. Journal of Applied Physics, 2016, 120, .	2.5	17

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145	Evidence of luminescence modification with structure of zirconia phases. <i>Journal of Luminescence</i> , 2017, 192, 173-179.	3.1	17
146	Dosimetric properties of ZrO ₂ and ZrO ₂ :Sm ³⁺ exposed to beta rays. <i>Ceramics International</i> , 2018, 44, 18871-18877.	4.8	17
147	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
148	Gigantic irradiation effect of 100 Å 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.	1.2	16
149	Ionoluminescence and photoluminescence studies of Ag ⁸⁺ ion irradiated kyanite. <i>Journal of Luminescence</i> , 2008, 128, 7-10.	3.1	16
150	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.	1.4	16
151	Structural and spectroscopic modifications of nanocrystalline zinc oxide films induced by swift heavy ions. <i>Vacuum</i> , 2011, 86, 87-90.	3.5	16
152	Swift heavy ion induced modification in polyimide films. <i>Surface and Coatings Technology</i> , 2007, 201, 8308-8311.	4.8	15
153	Modification of polymer composite films using 120 MeV Ni ¹⁰⁺ ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 1775-1779.	1.4	15
154	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.	3.5	15
155	Luminescence studies of 100 Å MeV Si ⁸⁺ ion irradiated nanocrystalline Y ₂ O ₃ . <i>Radiation Measurements</i> , 2014, 71, 518-523.	1.4	15
156	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.	3.6	15
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