

Devesh Avasthi

List of Publications by Year in descending order

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498
papers

9,853
citations

46918

47
h-index

98622

67
g-index

500
all docs

500
docs citations

500
times ranked

8221
citing authors

#	ARTICLE	IF	CITATIONS
1	Super-Hydrophobic Nanostructured Silica Coating on Aluminum Substrate for Moist Air Condensation. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 1266-1276.	1.2	7
2	Depth profiling of energetic Au ions inside P-type Si substrate. <i>Applied Surface Science</i> , 2022, 579, 152173.	3.1	1
3	Structural Transformations Induced by Swift Heavy Ions in Polysiloxanes and Polycarbosilanes. <i>International Journal of Materials Research</i> , 2022, 92, 712-716.	0.1	3
4	Fabrication of superhydrophobic polyurethane sponge coated with oil sorbent derived from textile sludge for oily wastewater remediation. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2022, 18, 100675.	1.7	4
5	Improved photoelectrochemical properties of TiO ₂ -graphene nanocomposites: Effect of defect induced visible light absorption and graphene conducting channel for carrier transport. <i>Applied Surface Science Advances</i> , 2022, 11, 100274.	2.9	6
6	Synthesis and modification of ZnO thin films by energetic ion beams. <i>Radiation Effects and Defects in Solids</i> , 2021, 176, 145-166.	0.4	3
7	Surface erosion of BaF ₂ thin films under SHI irradiation: Angular distribution and role of different substrates. <i>Applied Surface Science</i> , 2021, 551, 149343.	3.1	7
8	Ubiquitous organic molecule-based free-standing nanowires with ultra-high aspect ratios. <i>Nature Communications</i> , 2021, 12, 4025.	5.8	5
9	Perpendicularly magnetized ferromagnetism in Mn/Al bilayer thin films on Si substrates induced by temperature dependent ion beam mixing. <i>Physica Scripta</i> , 2021, 96, 105806.	1.2	3
10	Swift heavy ion assisted growth of silver nanoparticles embedded in hafnium oxide matrix. <i>Journal of Applied Physics</i> , 2021, 130, .	1.1	6
11	Effects of Initial Grain Size and Laser Parameters on HfO ₂ Nanoparticles Prepared Using Femtosecond Laser Ablation in Liquids. <i>Journal of Electronic Materials</i> , 2021, 50, 1742-1751.	1.0	2
12	Scattering Cross Section of Charged Dust Particles in Magnetized Plasma. <i>IEEE Transactions on Plasma Science</i> , 2021, , 1-8.	0.6	0
13	A correlation of metallic surface roughness with its hydrophobicity for dropwise condensation. <i>Materials Today: Proceedings</i> , 2020, 21, 1446-1452.	0.9	8
14	Self Assembly of Super-hydrophobic Nanotextured Methyl Functionalized Silica on Copper and Aluminium Surfaces for Moist Air Condensation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 605, 125379.	2.3	17
15	Solar light assisted degradation of dyes and adsorption of heavy metal ions from water by CuO-ZnO tetrapodal hybrid nanocomposite. <i>Materials Today Chemistry</i> , 2020, 17, 100336.	1.7	58
16	Detection of prostate cancer DNA using tetrapods based disposable paper ecofriendly biosensor device. <i>Medical Devices & Sensors</i> , 2020, 3, e10122.	2.7	7
17	Porphyrin Nanowire Bundles for Efficient Photoconductivity, Photoemission, and Generation of Singlet Oxygens toward Photodynamic Therapy. <i>ACS Applied Nano Materials</i> , 2020, 3, 6043-6053.	2.4	10
18	Insights into the Effect of Particle Size on the Low Energy Radiation Response of Ceria. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15489-15499.	1.5	7

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19	Ag ⁸⁺ ion irradiation modulated structural, microstructural, defect, and magnetization in ZnO thin films. <i>Vacuum</i> , 2020, 176, 109342.	1.6	3
20	Transformation of Au-Pd alloy nanoparticles to core-shell nanoparticles by electron irradiation. <i>Journal of Alloys and Compounds</i> , 2020, 832, 154944.	2.8	4
21	Thin ZnO layer for RRAM Applications. , 2020, , .		2
22	Localized Surface Plasmon Resonance Studies on Pd/C Nano-Composite System: Effect of Metal Concentration and Annealing Temperature. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 3859-3865.	0.9	0
23	Observation of exchange bias in nanoscale AuFe alloy film. <i>Materials Research Express</i> , 2020, 7, 076102.	0.8	0
24	Voltammetric measurements of neurotransmitter-acetylcholine through metallic nanoparticles embedded 2-D material. <i>International Journal of Biological Macromolecules</i> , 2019, 140, 415-422.	3.6	15
25	Assessing a thermal spike model of swift heavy ion-matter interactions via Pd-Ni/Si interface mixing. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 16634-16646.	1.3	4
26	Effect of low energy ion beam irradiation on molybdenum disulfide films. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	2
27	Creation of uniformly dispersed nitrogen-vacancy centers in nano-diamonds by low energy ion-irradiation. <i>Materials Research Express</i> , 2019, 6, 115097.	0.8	2
28	Efficient oil removal from wastewater based on polymer coated superhydrophobic tetrapodal magnetic nanocomposite adsorbent. <i>Applied Materials Today</i> , 2019, 17, 130-141.	2.3	38
29	Irradiation induced modification of medium range order in nano-crystalline metallic glass using synchrotron diffraction. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0
30	Ion irradiation assisted structural relaxation of Cr-FINEMET alloy. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0
31	Oxygen vacancy mediated cubic phase stabilization at room temperature in pure nano-crystalline zirconia films: a combined experimental and first-principles based investigation. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 22482-22490.	1.3	16
32	Improved hydrogen sensing behaviour in ion-irradiated Pd-Au alloy thin films. <i>Sensors and Actuators B: Chemical</i> , 2019, 301, 127006.	4.0	20
33	Irradiation induced enhancement of ferromagnetic α -phase in MnAl alloy thin films on Si substrate. <i>Materials Research Express</i> , 2019, 6, 056405.	0.8	4
34	Recent Developments in Fabrication of Super-Hydrophobic Surfaces: A Review. <i>Lecture Notes in Mechanical Engineering</i> , 2019, , 127-140.	0.3	6
35	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.	1.6	86
36	Fabrication of a low-cost functionalized poly(vinylidene fluoride) nanohybrid membrane for superior fuel cells. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1269-1282.	2.5	13

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37	Investigating the effect of material microstructure and irradiation temperature on the radiation tolerance of yttria stabilized zirconia against high energy heavy ions. Journal of Applied Physics, 2019, 125, .	1.1	19
38	Enhancement in thermoelectric properties due to Ag nanoparticles incorporated in Bi ₂ Te ₃ matrix. Beilstein Journal of Nanotechnology, 2019, 10, 634-643.	1.5	7
39	Probing the temperature effects in the radiation stability of Nd ₂ Zr ₂ O ₇ pyrochlore under swift ion irradiation. Materialia, 2019, 6, 100317.	1.3	36
40	Preparation, Morphology and Properties of Bismuth-Containing Alkali -Molybdate Ceramics. , 2019, , .		0
41	Tailoring the hydrophobicity of copper surface with ion beam irradiation. Radiation Effects and Defects in Solids, 2019, 174, 307-319.	0.4	12
42	ZnO tetrapods and activated carbon based hybrid composite: Adsorbents for enhanced decontamination of hexavalent chromium from aqueous solution. Chemical Engineering Journal, 2019, 358, 540-551.	6.6	170
43	Dual control on structure and magnetic properties of Mg ferrite: Role of swift heavy ion irradiation. Journal of Magnetism and Magnetic Materials, 2019, 471, 521-528.	1.0	50
44	Development of Hydrophobic Coating with Polymer-Metal Oxide Nano-composites. Lecture Notes in Mechanical Engineering, 2019, , 117-126.	0.3	1
45	MWCNTs and Cu ₂ O sensitized Ti Fe ₂ O ₃ photoanode for improved water splitting performance. International Journal of Hydrogen Energy, 2018, 43, 6049-6059.	3.8	20
46	Evidence of Ion-Beam-Induced Annealing in Graphene Oxide Films Using in Situ X-Ray Diffraction and Spectroscopy Techniques. Journal of Physical Chemistry C, 2018, 122, 9632-9640.	1.5	23
47	Strain effect on the photoluminescence property of gold nanoclusters. Journal of Applied Physics, 2018, 123, 085112.	1.1	3
48	Energetic ion-induced modification of embedded Au nanoparticles size: a three-dimensional kinetic lattice Monte Carlo study. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	2
49	Hafnia-based resistive switching devices for non-volatile memory applications and effects of gamma irradiation on device performance. Radiation Effects and Defects in Solids, 2018, 173, 239-249.	0.4	7
50	Poly(vinylidene fluoride-co-chlorotrifluoro ethylene) Nanohybrid Membrane for Fuel Cell. ACS Omega, 2018, 3, 917-928.	1.6	15
51	Tailoring optical properties of TiO ₂ -Cr co-sputtered films using swift heavy ions. Applied Surface Science, 2018, 440, 403-408.	3.1	14
52	Effect of Ag Ion Implantation on SPR of Cu-C ₆₀ Nanocomposite Thin Film. Plasmonics, 2018, 13, 669-679.	1.8	16
53	Remarkable effect of halogenation of aromatic compounds on efficiency of nanowire formation through polymerization/crosslinking by high-energy single particle irradiation. Radiation Physics and Chemistry, 2018, 142, 100-106.	1.4	6
54	Engineering of electronic properties of single layer graphene by swift heavy ion irradiation. Journal of Applied Physics, 2018, 123, .	1.1	30

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55	Modifications in structural, optical and electrical properties of epitaxial graphene on SiC due to 100 MeV silver ion irradiation. <i>Materials Science in Semiconductor Processing</i> , 2018, 74, 122-128.	1.9	10
56	Structural response of Nd-stabilized zirconia and its composite under extreme conditions of swift heavy ion irradiation. <i>Journal of Nuclear Materials</i> , 2018, 499, 216-224.	1.3	9
57	Mono-energetic heavy ion acceleration from laser plasma based composite nano-accelerator. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	3
58	Structure and Transport Properties of Nickel-Implanted CoSb ₃ Skutterudite Thin Films Synthesized via Pulsed Laser Deposition. <i>ACS Applied Energy Materials</i> , 2018, 1, 5879-5886.	2.5	8
59	Gold “graphene oxide nanocomposites for enzyme-less glucose monitoring. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 065002.	0.6	9
60	Electrical characteristics of etched ion-tracks in polyimide filled with silver nanoparticles. <i>Radiation Effects and Defects in Solids</i> , 2018, 173, 617-628.	0.4	0
61	Tailoring of magnetic properties of MnAl thin films by protons irradiation. <i>AIP Conference Proceedings</i> , 2018, . .	0.3	2
62	Grain fragmentation and phase transformations in hafnium oxide induced by swift heavy ion irradiation. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	17
63	Effect of carbon ion-beam irradiation on graphene oxide film. <i>Vacuum</i> , 2018, 154, 259-263.	1.6	20
64	Zinc Oxide Tetrapods Based Biohybrid Interface for Voltammetric Sensing of <i>Helicobacter pylori</i> . <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30631-30639.	4.0	45
65	Investigation of graphene oxide-hydrogen interaction using in-situ X-ray diffraction studies. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 13339-13347.	3.8	2
66	Surface functionalization of epitaxial graphene on SiC by ion irradiation for gas sensing application. <i>Applied Surface Science</i> , 2017, 403, 707-716.	3.1	24
67	Phase-dependent radiation-resistant behavior of BaTiO ₃ : An in-situ X-ray diffraction study. <i>Journal of the American Ceramic Society</i> , 2017, 100, 4263-4269.	1.9	9
68	Robust water repellent ZnO nanorod array by Swift Heavy Ion Irradiation: Effect of Electronic Excitation Induced Local Chemical State Modification. <i>Scientific Reports</i> , 2017, 7, 3251.	1.6	23
69	Generation and application of LET calibration curve for neutron dosimetry using CR-39 detector and microwave induced chemical etching. <i>Review of Scientific Instruments</i> , 2017, 88, 063301.	0.6	4
70	Enhancement of thermoelectric power of PbTe thin films by Ag ion implantation. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	23
71	Electrocatalytic biofuel cell based on highly efficient metal-polymer nano-architected bioelectrodes. <i>Nano Energy</i> , 2017, 39, 601-607.	8.2	40
72	A comprehensive study of SHI irradiated fullerene C ₆₀ thin films: Polymerization to amorphization. <i>Synthetic Metals</i> , 2017, 227, 93-99.	2.1	3

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73	Atom beam sputtered Ag-TiO ₂ plasmonic nanocomposite thin films for photocatalytic applications. Applied Surface Science, 2017, 411, 347-354.	3.1	82
74	Investigations on the Thermal Stability of Fullerene-Based (Ag-C70) Nanocomposite Thin Films. Plasmonics, 2017, 12, 1701-1708.	1.8	14
75	Facile synthesis of Au-ZnO plasmonic nanohybrids for highly efficient photocatalytic degradation of methylene blue. Optical Materials, 2017, 64, 47-52.	1.7	77
76	Evolution of nanostructured single-phase CoSb ₃ thin films by low-energy ion beam induced mixing and their thermoelectric performance. Physical Chemistry Chemical Physics, 2017, 19, 24886-24895.	1.3	10
77	SHI induced surface re-organization of non-amorphisable nanodimensional fluoride thin films. Physical Chemistry Chemical Physics, 2017, 19, 23229-23238.	1.3	6
78	New Generation Fuel Cell Membrane Using Swift Heavy Ions. ChemistrySelect, 2017, 2, 6413-6437.	0.7	6
79	Ion induced crystallization and grain growth of hafnium oxide nano-particles in thin-films deposited by radio frequency magnetron sputtering. Journal Physics D: Applied Physics, 2017, 50, 505301.	1.3	21
80	Swift heavy ion induced mixing at Pd _{0.60} Ni _{0.40} /quartz interface. AIP Conference Proceedings, 2017, , .	0.3	1
81	Fabrication of chemiresistive gas sensors based on multistep reduced graphene oxide for low parts per million monitoring of sulfur dioxide at room temperature. Sensors and Actuators B: Chemical, 2017, 242, 461-468.	4.0	86
82	Swift heavy ions induced nano-grain fragmentation in fluoride thin films. Journal of Alloys and Compounds, 2017, 695, 83-90.	2.8	13
83	Ion irradiation induced modifications of P3HT: A donor material for organic photovoltaic devices. Vacuum, 2017, 135, 73-85.	1.6	18
84	Synthesis and characterizations of Au-C60 nanocomposite. Journal of Alloys and Compounds, 2017, 696, 9-15.	2.8	28
85	Enhanced photoelectrochemical response of plasmonic Au embedded BiVO ₄ /Fe ₂ O ₃ heterojunction. Physical Chemistry Chemical Physics, 2017, 19, 15039-15049.	1.3	34
86	Oxygen vacancy mediated enhanced photo-absorption from ZnO(0001) nanostructures fabricated by atom beam sputtering. Journal of Applied Physics, 2016, 120, .	1.1	12
87	Synthesis and annealing study of RF sputtered ZnO thin film. AIP Conference Proceedings, 2016, , .	0.3	3
88	Plasmonic layer enhanced photoelectrochemical response of Fe ₂ O ₃ photoanodes. Journal of Power Sources, 2016, 315, 152-160.	4.0	28
89	A study on the effect of low energy ion beam irradiation on Au/TiO ₂ system for its application in photoelectrochemical splitting of water. Nuclear Instruments & Methods in Physics Research B, 2016, 379, 255-261.	0.6	24
90	Purification method dependent fluorescence from nitrogen-vacancy (NV) centers of nano-diamonds. RSC Advances, 2016, 6, 47164-47173.	1.7	9

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91	Ion beam engineering of morphological, structural and optical properties of Au/SnO ₂ hybrid nanostructured thin films. Journal of Alloys and Compounds, 2016, 680, 155-162.	2.8	13
92	Mesoporous polyaniline nanofiber decorated graphene micro-flowers for enzyme-less cholesterol biosensors. Nanotechnology, 2016, 27, 345101.	1.3	29
93	Tuning of optical and electrical properties of wide band gap Fe:SnO ₂ /Li:NiO p-n junctions using 80 MeV oxygen ion beam. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	16
94	Effect of swift heavy ion irradiation on optical absorption properties of SWCNTs. AIP Conference Proceedings, 2016, , .	0.3	0
95	Formation of nanowires via single particle-triggered linear polymerization of solid-state aromatic molecules. Nanoscale, 2016, 8, 14925-14931.	2.8	10
96	Study of Single Walled Carbon Nanotubes Irradiated by Swift Heavy Ions. Materials Today: Proceedings, 2016, 3, 2062-2068.	0.9	0
97	Unraveling The Origin of Enhanced Field Emission from Irradiated FeCo-SiO ₂ Nanocomposites: A Combined Experimental and First-Principles Based Study. ACS Applied Materials & Interfaces, 2016, 8, 4994-5001.	4.0	14
98	Radiation stability of Gd ₂ Zr ₂ O ₇ : Effect of stoichiometry and structure. Ceramics International, 2016, 42, 103-109.	2.3	35
99	Nanoclay and swift heavy ions induced piezoelectric and conducting nanochannel based polymeric membrane for fuel cell. Journal of Power Sources, 2016, 301, 338-347.	4.0	20
100	Ion track diameter in fullerene C ₇₀ thin film using Raman active vibrational modes of C ₇₀ molecule. Vacuum, 2016, 123, 35-41.	1.6	27
101	Surface and structural studies of fullerene C ₇₀ under ion irradiation. Surface Engineering, 2016, 32, 846-852.	1.1	13
102	Effect of Ag doping and annealing on thermoelectric properties of PbTe. AIP Conference Proceedings, 2015, , .	0.3	2
103	Exchange bias in zinc ferrite-FeNiMoB based metallic glass composite thin films. AIP Conference Proceedings, 2015, , .	0.3	0
104	Embedded Ge nanocrystals in SiO ₂ synthesized by ion implantation. Journal of Applied Physics, 2015, 118, .	1.1	12
105	Investigation on optical absorption properties of ion irradiated single walled carbon nanotubes. AIP Conference Proceedings, 2015, , .	0.3	0
106	Effects of swift heavy ion irradiation on structural, optical and photocatalytic properties of ZnO-CuO nanocomposites prepared by carbothermal evaporation method. Beilstein Journal of Nanotechnology, 2015, 6, 928-937.	1.5	67
107	Enhancement of thermoelectric power of PbTe:Ag nanocomposite thin films. RSC Advances, 2015, 5, 25887-25895.	1.7	26
108	Swift heavy ion induced crystallographic tilt and site-disorder in epitaxial magneto-electric GaFeO ₃ thin films. Journal Physics D: Applied Physics, 2015, 48, 375001.	1.3	1

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109	<i>In situ</i> x-ray reflectivity study of swift heavy ion induced interface modification in a W/Si multilayer x-ray mirror. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 015305.	1.3	6
110	Dynamic scaling of swift heavy ion induced surface restructuring of BaF ₂ thin film. <i>Materials Letters</i> , 2015, 143, 309-311.	1.3	10
111	Spontaneous formation of superconducting NiBi ₃ phase in Ni-Bi bilayer films. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	30
112	Study of thermal annealing induced plasmonic bleaching in Ag:TiO ₂ nanocomposite thin films. <i>Scripta Materialia</i> , 2015, 105, 46-49.	2.6	31
113	ASPIRE: An automated sample positioning and irradiation system for radiation biology experiments at Inter University Accelerator Centre, New Delhi. <i>Radiation Measurements</i> , 2015, 76, 17-22.	0.7	3
114	Investigations of ripple pattern formation on Germanium surfaces using 100-keV Ar ⁺ ions. <i>Nanoscale Research Letters</i> , 2015, 10, 88.	3.1	7
115	Effect of defects and film thickness on the optical properties of ZnO@Au hybrid films. <i>RSC Advances</i> , 2015, 5, 40813-40819.	1.7	16
116	A poly(vinylidene fluoride-co-hexafluoro propylene) nanohybrid membrane using swift heavy ion irradiation for fuel cell applications. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10413-10424.	5.2	27
117	Room temperature ferrimagnetism and low temperature disorder effects in zinc ferrite thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 385, 265-271.	1.0	21
118	Synthesis and characterization of Au@Fe alloy nanoparticles embedded in a silica matrix by atom beam sputtering. <i>RSC Advances</i> , 2015, 5, 92080-92088.	1.7	15
119	Phase evolution and electrical properties of Co@Sb alloys fabricated from Co/Sb bilayers by thermal annealing and ion beam mixing. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 24427-24437.	1.3	21
120	Synthesis of embedded Au nanostructures by ion irradiation: influence of ion induced viscous flow and sputtering. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 105-110.	1.5	15
121	A study on the consequence of swift heavy ion irradiation of Zn@silica nanocomposite thin films: electronic sputtering. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1691-1698.	1.5	6
122	Microstructural and plasmonic modifications in Ag@TiO ₂ and Au@TiO ₂ nanocomposites through ion beam irradiation. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1419-1431.	1.5	40
123	Modification of properties of metal containing carbon films by swift heavy ion irradiation. , 2014, , .		1
124	Electronic excitation induced structural modification of FeCo nanoparticles embedded in silica matrix. <i>Materials Research Express</i> , 2014, 1, 035017.	0.8	7
125	Effect of grain size and microstructure on radiation stability of CeO ₂ : an extensive study. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 27065-27073.	1.3	49
126	Thermal stability of bimetallic Au/Fe nanoparticles in silica matrix. , 2014, , .		0

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127	Radiation stability of graphene under extreme conditions. Applied Physics Letters, 2014, 105, .	1.5	39
128	Purification/annealing of graphene with 100-MeV Ag ion irradiation. Nanoscale Research Letters, 2014, 9, 126.	3.1	46
129	Effect of 100MeV Ag+7 ion irradiation on the bulk and surface magnetic properties of Coâ€“Feâ€“Si thin films. Journal of Magnetism and Magnetic Materials, 2014, 372, 224-232.	1.0	7
130	Structural, topographical and magnetic evolution of RF-sputtered Fe-Ni alloy based thin films with thermal annealing. Materials Research Express, 2014, 1, 015707.	0.8	2
131	Shape elongation of Zn nanoparticles in silica irradiated with swift heavy ions of different species and energies: scaling law and some insights on the elongation mechanism. Nanotechnology, 2014, 25, 435301.	1.3	32
132	PbTe nanocrystal formation by interface mixing of Te/Pb bilayer using low energy ions. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2014, 184, 58-66.	1.7	12
133	Study of electronic sputtering of CaF2 thin films. Applied Surface Science, 2014, 289, 77-80.	3.1	25
134	Effects of MeV ion irradiation on structural and optical properties of SnO 2 â€“ZnO nanocomposites prepared by carbothermal evaporation. Journal of Alloys and Compounds, 2014, 617, 734-739.	2.8	8
135	Enhancement in field emission current density of Ni nanoparticles embedded in thin silica matrix by swift heavy ion irradiation. Journal of Applied Physics, 2014, 115, 174304.	1.1	11
136	Structure-Modified Stress Dynamics and Wetting Characteristics of Carbon Nanotubes and Multilayer Graphene for Electron Field Emission Investigations. ACS Applied Materials & Interfaces, 2014, 6, 12531-12540.	4.0	10
137	Phase transformation of ZnMoO4 by localized thermal spike. Journal of Applied Physics, 2014, 115, .	1.1	13
138	Engineering the strain in graphene layers with Au decoration. Applied Surface Science, 2014, 308, 193-198.	3.1	19
139	Nano tracks in fullerene film by dense electronic excitations. Applied Surface Science, 2014, 313, 102-106.	3.1	7
140	Sub-nanosecond Thermal Spike Induced Nanostructuring of Thin Solid Films Under Swift Heavy Ion (SHI) Irradiation. Springer Series in Materials Science, 2014, , 107-121.	0.4	1
141	In-Situ X-Ray Diffraction Study of the Evolution of NiO Microstructure Under 120 MeV Au Ion Irradiation. Advanced Science Letters, 2014, 20, 607-611.	0.2	2
142	Ion beam irradiation-induced tuning of SPR of Au nanoparticles in fullerene C70 matrix: dependence of energy loss. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	38
143	Blue-Shifted SPR of Au Nanoparticles with Ordering of Carbon by Dense Ionization and Thermal Treatment. Plasmonics, 2013, 8, 295-305.	1.8	46
144	Formation of Self-organized Silver Nanocup-Type Structures and Their Plasmonic Absorption. Plasmonics, 2013, 8, 811-815.	1.8	75

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145	Low frequency alternating current conduction and dielectric relaxation in polypyrrole irradiated with 100 MeV swift heavy ions of silver (Ag ⁸⁺). <i>Materials Chemistry and Physics</i> , 2013, 140, 472-477.	2.0	4
146	RRAM properties of swift heavy ion irradiated Ag/In ₂ O ₃ /Pt/Si heterostructures. <i>Radiation Effects and Defects in Solids</i> , 2013, 168, 625-629.	0.4	9
147	Ion-irradiation-induced ferromagnetism in undoped ZnO thin films. <i>Acta Materialia</i> , 2013, 61, 2763-2768.	3.8	28
148	Ion irradiation studies of silver/amorphous carbon nanocomposite thin film. <i>Surface and Coatings Technology</i> , 2013, 229, 50-54.	2.2	36
149	Tailoring of structural and electron emission properties of CNT walls and graphene layers using high-energy irradiation. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 315301.	1.3	15
150	In vitro studies on radiosensitization effect of glucose capped gold nanoparticles in photon and ion irradiation of HeLa cells. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 301, 7-11.	0.6	52
151	Study of ion beam synthesized nanostructured PbTe surface. <i>Applied Surface Science</i> , 2013, 265, 124-129.	3.1	3
152	Nanochannel conduction in piezoelectric polymeric membrane using swift heavy ions and nanoclay. <i>RSC Advances</i> , 2013, 3, 6147.	1.7	18
153	Surface-enhanced Raman scattering and fluorescence emission of gold nanoparticle-multiwalled carbon nanotube hybrids. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 12-20.	1.2	37
154	Study of swift heavy ion irradiation effect on Rhodamine 6G dye for dye sensitize solar cell application. <i>Vacuum</i> , 2013, 87, 21-25.	1.6	8
155	Radiosensitizing effect of gold nanoparticles in carbon ion irradiation of human cervical cancer cells. , 2013, , .		3
156	Higher order moments associated with energy loss distribution of swift heavy ions in thick polyethylene naphthalate polymeric foils. <i>Radiation Effects and Defects in Solids</i> , 2013, 168, 601-606.	0.4	3
157	Swift heavy ion irradiation of ZnO nanoparticles embedded in silica: Radiation-induced deoxidation and shape elongation. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	23
158	Modification of PMMA/graphite nanocomposites through ion beam technique. <i>Radiation Effects and Defects in Solids</i> , 2013, 168, 512-517.	0.4	4
159	High-Quality Nanocrystalline ZnO Films Deposited by the Atom Beam Sputtering. <i>Journal of Nanoengineering and Nanomanufacturing</i> , 2013, 3, 331-336.	0.3	2
160	Stabilization Of FeCo Alloy Phase In FeCo-SiO ₂ Nanocomposites. <i>Advanced Materials Letters</i> , 2013, 4, 390-397.	0.3	10
161	Synthesis Of Carbon Nanowires By SHI Irradiation Of Fullerene C70 thin Film. <i>Advanced Materials Letters</i> , 2013, 4, 413-417.	0.3	16
162	SHI induced enhancement in conductivity of PbTe thin film for thermoelectric applications. , 2012, , .		0

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