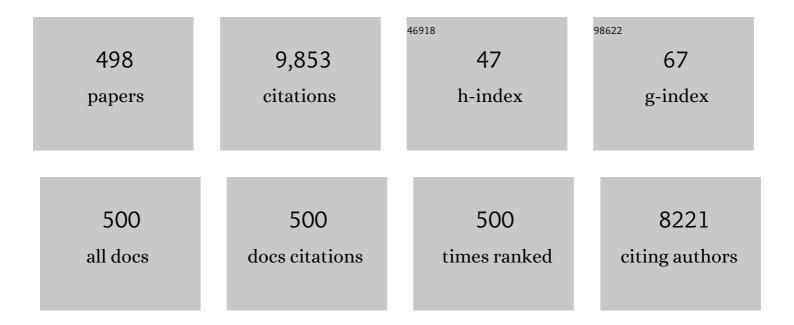
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	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
2	Au–ZnO: A tunable localized surface plasmonic nanocomposite. Applied Physics Letters, 2008, 92, 043107.	1.5	153
3	On the properties of indium doped ZnO thin films. Semiconductor Science and Technology, 2005, 20, 120-126.	1.0	144
4	Synthesis of metal–polymer nanocomposite for optical applications. Nanotechnology, 2007, 18, 125604.	1.3	141
5	Deposition of thin films of different oxides of copper by RF reactive sputtering and their characterization. Vacuum, 2000, 57, 377-385.	1.6	119
6	Synthesis and characterization of ZnO thin film grown by electron beam evaporation. Journal of Applied Physics, 2006, 99, 123105.	1.1	118
7	Crystal growth behaviour in Au-ZnO nanocomposite under different annealing environments and photoswitchability. Journal of Applied Physics, 2012, 112, .	1.1	117
8	Modifying the nanocrystalline characteristics—structure, size, and surface states of copper oxide thin films by high-energy heavy-ion irradiation. Journal of Applied Physics, 2002, 92, 3304-3310.	1.1	111
9	Synthesis of elongated Au nanoparticles in silica matrix by ion irradiation. Applied Physics Letters, 2007, 91, .	1.5	105
10	Swift Heavy lons for Materials Engineering and Nanostructuring. Springer Series in Materials Science, 2011, , .	0.4	102
11	Effects of 160 MeV Ni12+ion irradiation on HCl doped polyaniline electrode. Journal Physics D: Applied Physics, 2006, 39, 750-755.	1.3	95
12	Effect of fluorine doping on structural, electrical and optical properties of ZnO thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 117, 307-312.	1.7	91
13	Synthesis of gold-silicon core-shell nanoparticles with tunable localized surface plasmon resonance. Applied Physics Letters, 2008, 92, .	1.5	87
14	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
15	Enhanced room temperature ferromagnetism and green photoluminescence in Cu doped ZnO thin film synthesised by neutral beam sputtering. Scientific Reports, 2019, 9, 6675.	1.6	86
16	Atom beam sputtered Ag-TiO 2 plasmonic nanocomposite thin films for photocatalytic applications. Applied Surface Science, 2017, 411, 347-354.	3.1	82
17	Controlled growth of gold nanoparticles induced by ion irradiation: An in situ x-ray diffraction study. Applied Physics Letters, 2007, 90, 073110.	1.5	79
18	Facile synthesis of Au-ZnO plasmonic nanohybrids for highly efficient photocatalytic degradation of methylene blue. Optical Materials, 2017, 64, 47-52.	1.7	77

#	Article	IF	CITATIONS
19	Test of the hypothesis of transient molten state diffusion for swift-heavy-ion induced mixing. Physical Review B, 2005, 71, .	1.1	76
20	Modifications of ZnO thin films under dense electronic excitation. Journal of Applied Physics, 2005, 97, 013509.	1.1	75
21	Formation of Self-organized Silver Nanocup-Type Structures and Their Plasmonic Absorption. Plasmonics, 2013, 8, 811-815.	1.8	75
22	Effect of heavy ion irradiation on the electrical and optical properties of amorphous chalcogenide thin films. Journal Physics D: Applied Physics, 2002, 35, 477-479.	1.3	74
23	Large electronically mediated sputtering in gold films. Physical Review B, 2001, 64, .	1.1	73
24	Structural evolution of TiO2 nanocrystalline thin films by thermal annealing and swift heavy ion irradiation. Journal of Applied Physics, 2009, 105, .	1.1	72
25	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
26	Radiation-Resistant Behavior of Poly(vinylidene fluoride)/Layered Silicate Nanocomposites. ACS Applied Materials & Interfaces, 2009, 1, 311-318.	4.0	64
27	Swift heavy ion induced modification of C60 thin films. Journal of Applied Physics, 2003, 94, 326-333.	1.1	63
28	Synthesis of confined electrically conducting carbon nanowires by heavy ion irradiation of fullerene thin film. Journal of Applied Physics, 2007, 101, 014308.	1.1	61
29	Studies on the optical band gap and cluster size of the polyaniline thin films irradiated with swift heavy Si ions. Vacuum, 2007, 82, 56-60.	1.6	61
30	Gold–silica nanocomposites for the detection of human ovarian cancer cells: a preliminary study. Nanotechnology, 2007, 18, 345606.	1.3	59
31	Solar light assisted degradation of dyes and adsorption of heavy metal ions from water by CuO–ZnO tetrapodal hybrid nanocomposite. Materials Today Chemistry, 2020, 17, 100336.	1.7	58
32	Synthesis and characterization of Ni-doped ZnO: A transparent magnetic semiconductor. Journal of Magnetism and Magnetic Materials, 2008, 320, 3347-3351.	1.0	57
33	Formation of self-affine nanostructures on ZnO surfaces by swift heavy ions. Journal of Applied Physics, 2008, 104, 024304.	1.1	56
34	Electronic excitation induced tuning of surface plasmon resonance of Ag nanoparticles in fullerene C <sub>70</sub> matrix. Journal Physics D: Applied Physics, 2009, 42, 155103.	1.3	55
35	Hydrogen induced lattice expansion and crystallinity degradation in palladium nanoparticles: Effect of hydrogen concentration, pressure, and temperature. Journal of Applied Physics, 2009, 106, .	1.1	55
36	Damaged carbon nanotubes get healed by ion irradiation. Journal of Applied Physics, 2010, 108, .	1.1	55

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37	Study of ZnO and Ni-doped ZnO synthesized by atom beam sputtering technique. Applied Physics A: Materials Science and Processing, 2008, 90, 765-769.	1.1	54
38	Swift heavy ion induced structural and optical modifications in LiF thin film. Journal Physics D: Applied Physics, 2005, 38, 637-641.	1.3	53
39	Optical, chemical and structural modification of oxygen irradiated PET. Radiation Measurements, 2010, 45, 850-855.	0.7	53
40	Ordering of fullerene and carbon nanotube thin films under energetic ion impact. Applied Physics Letters, 2008, 92, .	1.5	52
41	In vitro studies on radiosensitization effect of glucose capped gold nanoparticles in photon and ion irradiation of HeLa cells. Nuclear Instruments & Methods in Physics Research B, 2013, 301, 7-11.	0.6	52
42	Ferromagnetism induced by heavy-ion irradiation in fullerene films. Physical Review B, 2006, 74, .	1.1	50
43	Structural modifications in pyrochlores caused by ions in the electronic stopping regime. Journal of Nuclear Materials, 2008, 380, 93-98.	1.3	50
44	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
45	Synthesis of Au nanoparticles at the surface and embedded in carbonaceous matrix by 150 keV Ar ion irradiation. Journal Physics D: Applied Physics, 2011, 44, 125302.	1.3	49
46	Effect of grain size and microstructure on radiation stability of CeO <sub>2</sub> : an extensive study. Physical Chemistry Chemical Physics, 2014, 16, 27065-27073.	1.3	49
47	Recrystallization in polyvinylidene fluoride upon low fluence swift heavy ion impact. Applied Physics Letters, 2001, 78, 4136-4138.	1.5	48
48	Size effect on electronic sputtering of LiF thin films. Journal of Applied Physics, 2007, 102, .	1.1	47
49	Swift heavy ion induced surface modification for tailoring coercivity in Fe–Ni based amorphous thin films. Journal of Applied Physics, 2009, 105, .	1.1	47
50	Synthesis and Characterization of Ag-Polymer Nanocomposites. Journal of Nanoscience and Nanotechnology, 2010, 10, 2833-2837.	0.9	47
51	Microstructural modifications in diamond-like carbon thin films caused by high energy ion irradiation. Thin Solid Films, 1995, 258, 123-127.	0.8	46
52	Surface roughness and power spectral density study of SHI irradiated ultra-thin gold films. Applied Surface Science, 2009, 256, 558-561.	3.1	46
53	Blue-Shifted SPR of Au Nanoparticles with Ordering of Carbon by Dense Ionization and Thermal Treatment. Plasmonics, 2013, 8, 295-305.	1.8	46
54	Purification/annealing of graphene with 100-MeV Ag ion irradiation. Nanoscale Research Letters, 2014, 9, 126.	3.1	46

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55	Zinc Oxide Tetrapods Based Biohybrid Interface for Voltammetric Sensing of <i>Helicobacter pylori</i> . ACS Applied Materials & Interfaces, 2018, 10, 30631-30639.	4.0	45
56	Study of hydrogen in DLC film by ERDA with 58Ni ions. Vacuum, 1995, 46, 633-636.	1.6	43
57	Enhancement of band gap and photoconductivity in gamma indium selenide due to swift heavy ion irradiation. Journal of Applied Physics, 2008, 103, .	1.1	42
58	Synthesis and characterizations of silver-fullerene C70 nanocomposite. Applied Physics Letters, 2008, 93, .	1.5	42
59	RF-plasma polymerization and characterization of polyaniline. European Polymer Journal, 2009, 45, 2873-2877.	2.6	41
60	Poly(Vinylidene fluoride- <i>co</i> -hexafluoro propylene)/Layered Silicate Nanocomposites: The Effect of Swift Heavy Ion. Journal of Physical Chemistry B, 2009, 113, 11632-11641.	1.2	41
61	Electronic excitation induced controlled modifications of semiconductor-to-metal transition in epitaxial VO <sub>2</sub> thin films. Journal of Materials Research, 2011, 26, 2901-2906.	1.2	41
62	Enhancement of wettability and antibiotic loading/release of hydroxyapatite thin film modified by 100MeV Ag7+ ion irradiation. Materials Chemistry and Physics, 2012, 134, 464-477.	2.0	41
63	Surface modification of polyethylene terephthalate by plasma treatment. Radiation Measurements, 2005, 40, 746-749.	0.7	40
64	Microstructural and plasmonic modifications in Ag–TiO <sub>2</sub> and Au–TiO <sub>2</sub> nanocomposites through ion beam irradiation. Beilstein Journal of Nanotechnology, 2014, 5, 1419-1431.	1.5	40
65	Electrocatalytic biofuel cell based on highly efficient metal-polymer nano-architectured bioelectrodes. Nano Energy, 2017, 39, 601-607.	8.2	40
66	Hydrogen in chemical vapour deposited diamond films. Vacuum, 1996, 47, 1259-1264.	1.6	39
67	Transient enhanced diffusion of oxygen in Fe mediated by large electronic excitation. Physical Review B, 2003, 68, .	1.1	39
68	Defect dependent ferromagnetism in MgO doped with Ni and Co. Applied Physics Letters, 2008, 93, .	1.5	39
69	Radiation stability of graphene under extreme conditions. Applied Physics Letters, 2014, 105, .	1.5	39
70	Synthesis and Characterization of Gold Nanorings. Journal of Nanoscience and Nanotechnology, 2007, 7, 1878-1881.	0.9	38
71	Synthesis of Plasmonic Nanocomposites for Diverse Applications. Journal of Nanoscience and Nanotechnology, 2010, 10, 2705-2712.	0.9	38
72	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

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73	Efficient oil removal from wastewater based on polymer coated superhydrophobic tetrapodal magnetic nanocomposite adsorbent. Applied Materials Today, 2019, 17, 130-141.	2.3	38
74	Effect of 100 MeV Nickel Ions on Silica Coated ZnS Quantum Dots. Journal of Nanoelectronics and Optoelectronics, 2008, 3, 180-183.	0.1	38
75	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.	1.7	37
76	Role of electron energy loss in modification of C60 thin films by swift heavy ions. Journal of Applied Physics, 2008, 104, .	1.1	37
77	Green luminescence of ZnS and ZnS:Cu quantum dots embedded in zeolite matrix. Journal of Applied Physics, 2009, 105, .	1.1	37
78	Surfaceâ€enhanced Raman scattering and fluorescence emission of gold nanoparticle–multiwalled carbon nanotube hybrids. Journal of Raman Spectroscopy, 2013, 44, 12-20.	1.2	37
79	Dissociation kinetics of molecular hydrogen in a microwave plasma and its influence on the hydrogen content in diamond films. Solid State Communications, 1996, 98, 879-883.	0.9	36
80	Formation and characterization of carbon nanowires. Journal of Applied Physics, 2007, 102, .	1.1	36
81	Effect of ion beam irradiation on metal particle doped polymer composites. Bulletin of Materials Science, 2011, 34, 81-88.	0.8	36
82	lon irradiation studies of silver/amorphous carbon nanocomposite thin film. Surface and Coatings Technology, 2013, 229, 50-54.	2.2	36
83	Probing the temperature effects in the radiation stability of Nd2Zr2O7 pyrochlore under swift ion irradiation. Materialia, 2019, 6, 100317.	1.3	36
84	Study of chain scission versus crosslinking in MeV ion-irradiated polycarbonate using dielectric constant measurements and UV spectroscopy. Radiation Measurements, 2004, 38, 197-203.	0.7	35
85	Plasmonic, Low-Frequency Raman, and Nonlinear Optical-Limiting Studies in Copper–Silica Nanocomposites. Plasmonics, 2012, 7, 25-31.	1.8	35
86	Radiation stability of Gd2Zr2O7: Effect of stoichiometry and structure. Ceramics International, 2016, 42, 103-109.	2.3	35
87	Effect of heavy-ion irradiation on dielectric constant and electrical conductivity of doped and undoped nonlinear substance. Bulletin of Materials Science, 1997, 20, 1069-1077.	0.8	34
88	Setup for in situ x-ray diffraction study of swift heavy ion irradiated materials. Review of Scientific Instruments, 2007, 78, 113901.	0.6	34
89	Structural, optical, electrical and positron annihilation studies of CdS:Fe system. Journal of Alloys and Compounds, 2008, 454, 97-101.	2.8	34
90	Thermal and ion induced annealing of nanocrystalline ZnO thin film deposited by atom beam sputtering. Journal Physics D: Applied Physics, 2008, 41, 045305.	1.3	34

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91	A comparative study of the effect of O <sup>+7</sup> ion beam on polypyrrole and CR-39 (DOP) polymers. Journal Physics D: Applied Physics, 2008, 41, 115411.	1.3	34
92	Swift heavy ion induced structural changes in CdS thin films possessing different microstructures: A comparative study. Journal of Applied Physics, 2009, 106, 023508.	1.1	34
93	A comparative study of ion-induced damages in C60and C70fullerenes. Radiation Effects and Defects in Solids, 2009, 164, 38-48.	0.4	34
94	Enhanced photoelectrochemical response of plasmonic Au embedded BiVO <sub>4</sub> /Fe <sub>2</sub> O <sub>3</sub> heterojunction. Physical Chemistry Chemical Physics, 2017, 19, 15039-15049.	1.3	34
95	Effects and uses of ion beams with diamond, DLC and fullerene films. Vacuum, 1996, 47, 1249-1258.	1.6	32
96	Effect of heavy ion irradiation on C60. Solid State Communications, 1999, 111, 55-60.	0.9	32
97	Engineering of hydrophilic and plasmonic properties of Ag thin film by atom beam irradiation. Applied Surface Science, 2011, 258, 1464-1469.	3.1	32
98	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
99	Effect of 160MeV Ni12+ ion irradiation on PbS quantum dots. Journal of Luminescence, 2005, 114, 95-100.	1.5	31
100	Effects of swift heavy ions irradiation on polypyrrole thin films. Radiation Effects and Defects in Solids, 2008, 163, 139-147.	0.4	31
101	Study of thermal annealing induced plasmonic bleaching in Ag:TiO2 nanocomposite thin films. Scripta Materialia, 2015, 105, 46-49.	2.6	31
102	Modified structural and photoelectrochemical properties of 170 MeV Au13+ irradiated hematite. Thin Solid Films, 2005, 492, 332-336.	0.8	30
103	Swift heavy ion induced formation of nanocolumns of C clusters in a Si based polymer. Nanotechnology, 2006, 17, 2518-2522.	1.3	30
104	200 MeV silver ion irradiation induced structural modification in YBa2Cu3O7â^'y thin films at 89 K: An in situ x-ray diffraction study. Journal of Applied Physics, 2009, 106, 053912.	1.1	30
105	A study on the formation of Ag nanoparticles on the surface and catcher by ion beam irradiation of Ag thin films. Journal Physics D: Applied Physics, 2012, 45, 445304.	1.3	30
106	Spontaneous formation of superconducting NiBi3 phase in Ni-Bi bilayer films. Journal of Applied Physics, 2015, 117, .	1.1	30
107	Engineering of electronic properties of single layer graphene by swift heavy ion irradiation. Journal of Applied Physics, 2018, 123, .	1.1	30
108	Effect of high energy ion irradiation on electrical and optical properties of para-hydroxy acetophenone. Journal of Applied Physics, 1997, 81, 7526-7528.	1.1	29

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109	Hydrogen loss under heavy ion irradiation in polymers. Radiation Effects and Defects in Solids, 1999, 147, 199-209.	0.4	29
110	Synthesis, characterizations, and thermal induced structural transformation of silver-fullerene C60 nanocomposite thin films for applications in optical devices. Journal of Applied Physics, 2010, 107, .	1.1	29
111	Mesoporous polyaniline nanofiber decorated graphene micro-flowers for enzyme-less cholesterol biosensors. Nanotechnology, 2016, 27, 345101.	1.3	29
112	Swift heavy ion-induced dissolution of gold nanoparticles in silica matrix. Radiation Effects and Defects in Solids, 2007, 162, 207-213.	0.4	28
113	Resistance switching properties of planner Ag/Li:NiO/Ag structures induced by swift heavy ion irradiation. Journal of Applied Physics, 2009, 105, .	1.1	28
114	Experimental investigations of semi-crystalline plasma polymerized polypyrrole for surface coating. Progress in Organic Coatings, 2010, 69, 396-401.	1.9	28
115	Ion beam induced interface mixing of Ni on PTFE bilayer system studied by quadrupole mass analysis and electron spectroscopy for chemical analysis. Vacuum, 2010, 84, 1275-1279.	1.6	28
116	Enhancement of ferromagnetism in Pd nanoparticle by swift heavy ion irradiation. Applied Physics Letters, 2010, 96, 053103.	1.5	28
117	Ion-irradiation-induced ferromagnetism in undoped ZnO thin films. Acta Materialia, 2013, 61, 2763-2768.	3.8	28
118	Plasmonic layer enhanced photoelectrochemical response of Fe2O3 photoanodes. Journal of Power Sources, 2016, 315, 152-160.	4.0	28
119	Synthesis and characterizations of Au-C60 nanocomposite. Journal of Alloys and Compounds, 2017, 696, 9-15.	2.8	28
120	Effect of high energy ion irradiation on electrical and optical properties of organic nonlinear optical crystals. Vacuum, 1997, 48, 991-994.	1.6	27
121	The effect of swift heavy ion irradiation on perpendicular magnetic anisotropy in Fe-Tb multilayers. Journal of Physics Condensed Matter, 1998, 10, 9669-9680.	0.7	27
122	Formation of Au0.6Ge0.4 alloy induced by Au-ion irradiation of Au/Ge bilayer. Journal of Applied Physics, 2003, 93, 903-906.	1.1	27
123	Study of Li3+ion irradiation effects in P(VDF–HFP) based gel polymer electrolytes for application in Li-ion battery. Journal Physics D: Applied Physics, 2006, 39, 4208-4214.	1.3	27
124	Modifications of polycarbonate induced by swift heavy ions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 457, 195-198.	2.6	27
125	Study of effects of Mn2+ in CdS nanocrystals. Physica B: Condensed Matter, 2007, 400, 70-76.	1.3	27
126	Surface Plasmon Resonance of Ag Nanoparticles Embedded in Partially Oxidized Amorphous Si Matrix. Journal of Nanoscience and Nanotechnology, 2008, 8, 4285-4289.	0.9	27

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127	A poly(vinylidene fluoride-co-hexafluoro propylene) nanohybrid membrane using swift heavy ion irradiation for fuel cell applications. Journal of Materials Chemistry A, 2015, 3, 10413-10424.	5.2	27
128	Ion track diameter in fullerene C70 thin film using Raman active vibrational modes of C70 molecule. Vacuum, 2016, 123, 35-41.	1.6	27
129	Etched ion track polymer membranes for sustained drug delivery. Radiation Measurements, 2003, 36, 585-589.	0.7	26
130	Effect of 100 MeV swift heavy ions [silver (Ag8+)] on morphological and electrical properties of polypyrrole. Journal of Applied Physics, 2009, 106, .	1.1	26
131	Evolution and tailoring of plasmonic properties in Ag:ZrO2 nanocomposite films by swift heavy ion irradiation. Journal of Applied Physics, 2011, 109, 044311-044311-6.	1.1	26
132	Ion beam-induced shaping of Ni nanoparticles embedded in a silica matrix: from spherical to prolate shape. Nanoscale Research Letters, 2011, 6, 155.	3.1	26
133	Enhancement of thermoelectric power of PbTe:Ag nanocomposite thin films. RSC Advances, 2015, 5, 25887-25895.	1.7	26
134	Nanofilter for hydrogen purification. International Journal of Hydrogen Energy, 2003, 28, 1015-1018.	3.8	25
135	Ionic conduction in 70 MeV C5+ ion-irradiated P(VDF–HFP)–(PC+DEC)–LiCF3SO3 gel polymer electrolyte system. Solid State Ionics, 2005, 176, 1585-1590.	1.3	25
136	Growth of Au nanostructures by annealing electron beam evaporated thin films. Journal of Optics, 2007, 9, S410-S414.	1.5	25
137	Characterization of Nanocomposite Polymeric Membrane. Journal of Polymer Research, 2007, 13, 357-360.	1.2	25
138	Conducting nano-channels in an induced piezoelectric polymeric matrix using swift heavy ions and subsequent functionalization. Journal of Materials Chemistry, 2012, 22, 3955.	6.7	25
139	Study of electronic sputtering of CaF2 thin films. Applied Surface Science, 2014, 289, 77-80.	3.1	25
140	Radiative capture cross-sections of isotopes of Gd, Sm and V between 1 and 3 MeV. Annals of Nuclear Energy, 1984, 11, 173-176.	0.9	24
141	Adhesion enhancement of diamond coatings on WC tools by high energy ion irradiation. Thin Solid Films, 1998, 323, 163-169.	0.8	24
142	Influence of ion-irradiation on the free volume controlled diffusion process in polycarbonate—a positron lifetime study. Polymer, 2002, 43, 2819-2826.	1.8	24
143	Effect of Si ion irradiation on polycrystalline CdS thin film grown from novel photochemical deposition technique. Physica B: Condensed Matter, 2005, 355, 222-230.	1.3	24
144	Synthesis of Au nanoparticles in partially oxidized Si matrix by atom beam sputtering. Journal Physics D: Applied Physics, 2007, 40, 7063-7068.	1.3	24

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145	Modifications of structural, optical and electrical properties of nanocrystalline bismuth sulphide by using swift heavy ions. Current Applied Physics, 2009, 9, 374-379.	1.1	24
146	Swift heavy ion induced structural modification of atom beam sputtered ZnO thin film. Surface and Coatings Technology, 2009, 203, 2427-2431.	2.2	24
147	A study on the effect of low energy ion beam irradiation on Au/TiO2 system for its application in photoelectrochemical splitting of water. Nuclear Instruments & Methods in Physics Research B, 2016, 379, 255-261.	0.6	24
148	Surface functionalization of epitaxial graphene on SiC by ion irradiation for gas sensing application. Applied Surface Science, 2017, 403, 707-716.	3.1	24
149	Photoluminescence properties of SHI induced F2 and F3+ color centers in nano-granular LiF thin films. Journal of Luminescence, 2007, 127, 302-306.	1.5	23
150	Swift Heavy Ion Induced Ordering and Piezoelectric β-phase in Poly(vinylidene fluoride). ACS Applied Materials & Interfaces, 2011, 3, 1398-1401.	4.0	23
151	Enhancement of photoluminescence in Er-doped Ag–SiO2 nanocomposite thin films: A post annealing study. Vacuum, 2011, 85, 806-809.	1.6	23
152	Swift heavy ion irradiation of ZnO nanoparticles embedded in silica: Radiation-induced deoxidation and shape elongation. Applied Physics Letters, 2013, 103, .	1.5	23
153	Robust water repellent ZnO nanorod array by Swift Heavy Ion Irradiation: Effect of Electronic Excitation Induced Local Chemical State Modification. Scientific Reports, 2017, 7, 3251.	1.6	23
154	Enhancement of thermoelectric power of PbTe thin films by Ag ion implantation. Journal of Applied Physics, 2017, 121, .	1.1	23
155	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
156	Gas permeation study of Ti-coated, track-etched polymeric membranes. Vacuum, 2006, 81, 389-393.	1.6	22
157	Structural damage studies in conducting indium-tin oxide (ITO) thin films induced by Au8+ swift heavy ions (SHI) irradiation. Vacuum, 2007, 82, 39-44.	1.6	22
158	Hydrogen profiling and the stoichiometry of an a-SiNx: H film. Vacuum, 1995, 46, 265-267.	1.6	21
159	Study of gas permeation for asymmetric track-etched polymer blends. International Journal of Hydrogen Energy, 2006, 31, 1266-1270.	3.8	21
160	Axial buckling and compressive behavior of nickel-encapsulated multiwalled carbon nanotubes. Physical Review B, 2007, 76, .	1.1	21
161	Synthesis and luminescence properties of manganese-doped ZnS nanocrystals. Solid-State Electronics, 2007, 51, 81-84.	0.8	21
162	Room temperature ferrimagnetism and low temperature disorder effects in zinc ferrite thin films. Journal of Magnetism and Magnetic Materials, 2015, 385, 265-271.	1.0	21

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163	Phase evolution and electrical properties of Co–Sb alloys fabricated from Co/Sb bilayers by thermal annealing and ion beam mixing. Physical Chemistry Chemical Physics, 2015, 17, 24427-24437.	1.3	21
164	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
165	High energy heavy ion induced changes in the photoluminescence and chemical composition of porous silicon. Thin Solid Films, 1996, 289, 95-98.	0.8	20
166	Gas and ion transport through a track-etched large-area polymer film. Desalination, 2006, 195, 273-280.	4.0	20
167	Structural and chemical modification of polymer composite by proton irradiation. Surface and Coatings Technology, 2009, 203, 2595-2599.	2.2	20
168	VLS-like growth and characterizations of dense ZnO nanorods grown by e-beam process. Journal Physics D: Applied Physics, 2009, 42, 035310.	1.3	20
169	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
170	MWCNTs and Cu2O sensitized Ti Fe2O3 photoanode for improved water splitting performance. International Journal of Hydrogen Energy, 2018, 43, 6049-6059.	3.8	20
171	Effect of carbon ion-beam irradiation on graphene oxide film. Vacuum, 2018, 154, 259-263.	1.6	20
172	Improved hydrogen sensing behaviour in ion-irradiated Pd-Au alloy thin films. Sensors and Actuators B: Chemical, 2019, 301, 127006.	4.0	20
173	Structural effect on electronic sputtering of hydrogenated amorphous carbon films. Solid State Communications, 2001, 120, 445-450.	0.9	19
174	Li3+ ion irradiation effects on ionic conduction in P(VDF–HFP)–(PC+DEC)–LiClO4 gel polymer electrolyte system. Solid State Ionics, 2006, 177, 2575-2579.	1.3	19
175	Studies on Carbon Nanotubes and Fullerenes Under Extreme Conditions. Journal of Nanoscience and Nanotechnology, 2010, 10, 3767-3779.	0.9	19
176	Modifications induced in poly (3-hexylthiophene) due to swift heavy ion beam of 100MeV silver (Ag8+). Materials Chemistry and Physics, 2011, 131, 436-442.	2.0	19
177	Engineering the strain in graphene layers with Au decoration. Applied Surface Science, 2014, 308, 193-198.	3.1	19
178	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
179	Nitrogen evolution from copper nitride films by MeV ion impact. Radiation Effects and Defects in Solids, 2001, 154, 151-163.	0.4	18
180	Effect of intense laser and energetic ion irradiation on Raman modes of Multiwalled Carbon Nanotubes. Thin Solid Films, 2009, 517, 4322-4324.	0.8	18

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