

# Fen Ren

## List of Publications by Year in descending order

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197  
papers

7,005  
citations

76326

40  
h-index

71685

76  
g-index

198  
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198  
docs citations

198  
times ranked

9295  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of Ga <sub>2</sub> O <sub>3</sub> materials, processing, and devices. Applied Physics Reviews, 2018, 5, .	11.3	1,816
2	3D Flowerlike $\text{Fe}_2\text{O}_3/\text{TiO}_2$ Core-Shell Nanostructures: General Synthesis and Enhanced Photocatalytic Performance. ACS Sustainable Chemistry and Engineering, 2015, 3, 2975-2984.	6.7	184
3	N Doping to ZnO Nanorods for Photoelectrochemical Water Splitting under Visible Light: Engineered Impurity Distribution and Terraced Band Structure. Scientific Reports, 2015, 5, 12925.	3.3	176
4	Controllable Synthesis, Magnetic Properties, and Enhanced Photocatalytic Activity of Spindlelike Mesoporous $\text{Fe}_2\text{O}_3/\text{ZnO}$ Core-Shell Heterostructures. ACS Applied Materials & Interfaces, 2012, 4, 3602-3609.	8.0	168
5	Effect of Ag <sub>2</sub> S on solar-driven photocatalytic hydrogen evolution of nanostructured CdS. International Journal of Hydrogen Energy, 2010, 35, 7110-7115.	7.1	126
6	Large-Scale and Controlled Synthesis of Iron Oxide Magnetic Short Nanotubes: Shape Evolution, Growth Mechanism, and Magnetic Properties. Journal of Physical Chemistry C, 2010, 114, 16092-16103.	3.1	121
7	Synthesis and Magnetic Properties of Maghemite ( $\text{Fe}_3\text{O}_4$ ) Short-Nanotubes. Nanoscale Research Letters, 2010, 5, 1474-1479.	5.7	113
8	Subnanometer Porous Thin Films by the Co-assembly of Nanotube Subunits and Block Copolymers. ACS Nano, 2011, 5, 1376-1384.	14.6	104
9	Mechanism of the enhancement and quenching of ZnO photoluminescence by ZnO-Ag coupling. Europhysics Letters, 2011, 93, 57009.	2.0	96
10	Facile method to synthesize magnetic iron oxides/TiO <sub>2</sub> hybrid nanoparticles and their photodegradation application of methylene blue. Nanoscale Research Letters, 2011, 6, 533.	5.7	90
11	Controlled synthesis of magnetic iron oxides@SnO <sub>2</sub> quasi-hollow core-shell heterostructures: formation mechanism, and enhanced photocatalytic activity. Nanoscale, 2011, 3, 4676.	5.6	87
12	Tube-Like Ternary $\text{Fe}_2\text{O}_3/\text{SnO}_2/\text{Cu}_2\text{O}$ Sandwich Heterostructures: Synthesis and Enhanced Photocatalytic Properties. ACS Applied Materials & Interfaces, 2014, 6, 13088-13097.	8.0	81
13	Activating ZnO nanorod photoanodes in visible light by Cu ion implantation. Nano Research, 2014, 7, 353-364.	10.4	80
14	V ions implanted ZnO nanorod arrays for photoelectrochemical water splitting under visible light. International Journal of Hydrogen Energy, 2015, 40, 1394-1401.	7.1	77
15	Ion Irradiation Inducing Oxygen Vacancy-Rich NiO/NiFe <sub>2</sub> O <sub>4</sub> Heterostructure for Enhanced Electrocatalytic Water Splitting. Small, 2021, 17, e2103501.	10.0	76
16	C/N Vacancy Co-Enhanced Visible-Light-Driven Hydrogen Evolution of $\text{g-C}_3\text{N}_4$ Nanosheets Through Controlled He <sup>+</sup> Ion Irradiation. Solar Rrl, 2019, 3, 1800298.	5.8	75
17	SiO <sub>2</sub> @Ag@SiO <sub>2</sub> @TiO <sub>2</sub> multi-shell structures: plasmon enhanced photocatalysts with wide-spectral-response. Journal of Materials Chemistry A, 2013, 1, 13128.	10.3	71
18	Template and Silica Interlayer Tailorable Synthesis of Spindle-like Multilayer $\text{Fe}_2\text{O}_3/\text{Ag}/\text{SnO}_2$ Ternary Hybrid Architectures and Their Enhanced Photocatalytic Activity. ACS Applied Materials & Interfaces, 2014, 6, 1113-1124.	8.0	67

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19	Preparation and characterization of spindle-like Fe <sub>3</sub> O <sub>4</sub> mesoporous nanoparticles. <i>Nanoscale Research Letters</i> , 2011, 6, 89.	5.7	66
20	A General Method for Large-Scale Fabrication of Semiconducting Oxides with High SERS Sensitivity. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 14534-14544.	8.0	66
21	Surface plasmon-enhanced light emission using silver nanoparticles embedded in ZnO. <i>Applied Physics Letters</i> , 2010, 97, 071909.	3.3	65
22	Nanochannel structures in W enhance radiation tolerance. <i>Acta Materialia</i> , 2018, 153, 147-155.	7.9	63
23	Synthesis of TiO <sub>2</sub> @g-C <sub>3</sub> N <sub>4</sub> core-shell nanorod arrays with Z-scheme enhanced photocatalytic activity under visible light. <i>Journal of Colloid and Interface Science</i> , 2017, 508, 419-425.	9.4	61
24	Controlled Synthesis of Monodisperse Sub-100-nm Hollow SnO <sub>2</sub> Nanospheres: A Template-Free and Surfactant-Free Solution-Phase Route, the Growth Mechanism, Optical Properties, and Application as a Photocatalyst. <i>Chemistry - A European Journal</i> , 2011, 17, 9708-9719.	3.3	57
25	Controllable synthesis of recyclable core-shell Fe <sub>3</sub> O <sub>4</sub> @SnO <sub>2</sub> hollow nanoparticles with enhanced photocatalytic and gas sensing properties. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 8228.	2.8	57
26	Ultrafast Self-Limited Growth of Strictly Monolayer WSe <sub>2</sub> Crystals. <i>Small</i> , 2016, 12, 5741-5749.	10.0	57
27	Zinc Oxide Coating Effect for the Dye Removal and Photocatalytic Mechanisms of Flower-Like MoS <sub>2</sub> Nanoparticles. <i>Nanoscale Research Letters</i> , 2017, 12, 221.	5.7	57
28	Creation of high resistivity GaN by implantation of Ti, O, Fe, or Cr. <i>Journal of Applied Physics</i> , 2000, 87, 1091-1095.	2.5	55
29	Solar light-driven photocatalytic hydrogen evolution over ZnIn <sub>2</sub> S <sub>4</sub> loaded with transition-metal sulfides. <i>Nanoscale Research Letters</i> , 2011, 6, 290.	5.7	52
30	Greatly reduced leakage current in BiFeO <sub>3</sub> thin film by oxygen ion implantation. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 5775-5777.	2.8	51
31	Non-centrosymmetric Au@SnO <sub>2</sub> hybrid nanostructures with strong localization of plasmonic for enhanced photocatalysis application. <i>Nanoscale</i> , 2013, 5, 5628.	5.6	51
32	Preparation of M@BiFeO <sub>3</sub> Nanocomposites (M=Ag, Au) Bowl Arrays with Enhanced Visible Light Photocatalytic Activity. <i>Journal of the American Ceramic Society</i> , 2015, 98, 2255-2263.	3.8	50
33	Determination of MgO@GaN heterojunction band offsets by x-ray photoelectron spectroscopy. <i>Applied Physics Letters</i> , 2006, 88, 042113.	3.3	48
34	Long-term thermal stability of CrAlO-based solar selective absorbing coating in elevated temperature air. <i>Solar Energy Materials and Solar Cells</i> , 2015, 134, 261-267.	6.2	48
35	<i>In situ</i> Oxidation and Self-Assembly Synthesis of Dumbbell-like Fe <sub>2</sub> O <sub>3</sub> /Ag/AgX (X = Cl, Br, I) Heterostructures with Enhanced Photocatalytic Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1521-1530.	6.7	48
36	Controlling the Morphology of Ag Nanoclusters by Ion Implantation to Different Doses and Subsequent Annealing. <i>Physical Review Letters</i> , 2006, 97, 165501.	7.8	46

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37	Size effects of Ag nanoparticles on plasmon-induced enhancement of photocatalysis of Ag-Fe <sub>2</sub> O <sub>3</sub> nanocomposites. <i>Journal of Colloid and Interface Science</i> , 2014, 427, 29-34.	9.4	46
38	The temperature and size effect on the electrical resistivity of Cu/V multilayer films. <i>Acta Materialia</i> , 2017, 126, 294-301.	7.9	46
39	In situ Raman scattering study on a controllable plasmon-driven surface catalysis reaction on Ag nanoparticle arrays. <i>Nanotechnology</i> , 2012, 23, 335701.	2.6	44
40	Enhanced photocatalysis by coupling of anatase TiO <sub>2</sub> film to triangular Ag nanoparticle island. <i>Nanoscale Research Letters</i> , 2012, 7, 239.	5.7	43
41	The spectral properties and thermal stability of CrAlO-based solar selective absorbing nanocomposite coating. <i>Solar Energy Materials and Solar Cells</i> , 2014, 122, 226-232.	6.2	43
42	Microstructural study of binary TiO <sub>2</sub> :SiO <sub>2</sub> nanocrystalline thin films. <i>Journal of Crystal Growth</i> , 2006, 292, 87-91.	1.5	41
43	Large-area, well-ordered, uniform-sized bowtie nanoantenna arrays for surface enhanced Raman scattering substrate with ultra-sensitive detection. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	39
44	Efficient enhancement of hydrogen production by Ag/Cu <sub>2</sub> O/ZnO tandem triple-junction photoelectrochemical cell. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	39
45	Efficiency enhancements in Ag nanoparticles-SiO <sub>2</sub> -TiO <sub>2</sub> sandwiched structure via plasmonic effect-enhanced light capturing. <i>Nanoscale Research Letters</i> , 2013, 8, 73.	5.7	38
46	Engineering embedded metal nanoparticles with ion beam technology. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 96, 317-325.	2.3	36
47	Microstructure and hardness evolution of nanochannel W films irradiated by helium at high temperature. <i>Journal of Nuclear Materials</i> , 2018, 502, 132-140.	2.7	35
48	Enhanced radiation tolerance in nitride multilayered nanofilms with small period-thicknesses. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	32
49	Structure and thermal stability of spectrally selective absorber based on AlCrON coating for solar-thermal conversion applications. <i>Solar Energy Materials and Solar Cells</i> , 2016, 157, 108-116.	6.2	32
50	Giant Enhancement of Nonlinear Optical Response in Nd:YAG Single Crystals by Embedded Silver Nanoparticles. <i>ACS Omega</i> , 2017, 2, 1279-1286.	3.5	32
51	Direct growth of molybdenum disulfide on arbitrary insulating surfaces by chemical vapor deposition. <i>RSC Advances</i> , 2015, 5, 4364-4367.	3.6	31
52	Application of ion beam technology in (photo)electrocatalytic materials for renewable energy. <i>Applied Physics Reviews</i> , 2020, 7, .	11.3	31
53	Surface Electronic Structure Reconfiguration of Hematite Nanorods for Efficient Photoanodic Water Oxidation. <i>Solar Rrl</i> , 2020, 4, 1900349.	5.8	30
54	Fused Silica with Embedded 2D-Like Ag Nanoparticle Monolayer: Tunable Saturable Absorbers by Interparticle Spacing Manipulation. <i>Laser and Photonics Reviews</i> , 2020, 14, 1900302.	8.7	30

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55	Third-order nonlinearity in Ag-nanoparticles embedded 56GeS2â€“24Ga2S3â€“20KBr chalcocalide glasses. Journal of Non-Crystalline Solids, 2011, 357, 2320-2323.	3.1	28
56	Polymerâ€“Supported Bimetallic Ag@AgAu Nanocomposites: Synthesis and Catalytic Properties. Chemistry - an Asian Journal, 2012, 7, 1781-1788.	3.3	28
57	Characterization of DC reactive magnetron sputtered NiO films using spectroscopic ellipsometry. Applied Surface Science, 2011, 257, 5908-5912.	6.1	27
58	Enhanced radiation tolerance of YSZ/Al2O3 multilayered nanofilms with pre-existing nanovoids. Acta Materialia, 2018, 144, 691-699.	7.9	27
59	Monolithic waveguide laser mode-locked by embedded Ag nanoparticles operating at 1 1/4m. Nanophotonics, 2019, 8, 859-868.	6.0	26
60	Effect of ingredient concentration on structure and optical properties of Cu nanoclusters. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 357, 364-368.	2.1	25
61	Carbon and silica interlayer influence for the photocatalytic performances of spindle-like $\text{Fe}_2\text{O}_3/\text{Bi}_2\text{O}_3$ heterostructures. Materials Science in Semiconductor Processing, 2016, 41, 411-419.	4.0	25
62	Enhanced thermal stability of solar selective absorber based on nano-multilayered TiAlON films deposited by cathodic arc evaporation. Applied Surface Science, 2020, 501, 144025.	6.1	25
63	Self-Assembly of Carbon Black/AAO Templates on Nanoporous Si for Broadband Infrared Absorption. ACS Applied Materials & Interfaces, 2020, 12, 4081-4087.	8.0	25
64	A Plasmonâ€“Enhanced $\text{SnSe}_2$ Photodetector by Nonâ€“Contact Ag Nanoparticles. Small, 2021, 17, e2102351.	10.0	25
65	The ion implantation-induced properties of one-dimensional nanomaterials. Nanoscale Research Letters, 2013, 8, 175.	5.7	24
66	Enhancement of third-order nonlinearity in Ag-nanoparticles-contained chalcocalide glasses. Journal of Nanoparticle Research, 2011, 13, 3693-3697.	1.9	23
67	Monolayer graphene on nanostructured Ag for enhancement of surface-enhanced Raman scattering stable platform. Nanotechnology, 2015, 26, 125603.	2.6	23
68	Design of Enhanced Catalysts by Coupling of Noble Metals (Au,Ag) with Semiconductor $\text{SnO}_2$ for Catalytic Reduction of 4â€“Nitrophenol. Particle and Particle Systems Characterization, 2016, 33, 212-220.	2.3	23
69	Enhanced PEC performance of nanoporous Si photoelectrodes by covering HfO2 and TiO2 passivation layers. Scientific Reports, 2017, 7, 43901.	3.3	23
70	Nonlinear Absorption Response Correlated to Embedded Ag Nanoparticles in BGO Single Crystal: From Two-Photon to Three-Photon Absorption. Scientific Reports, 2018, 8, 1977.	3.3	23
71	Tailoring optical nonlinearities of $\text{LiNbO}_3$ crystals by plasmonic silver nanoparticles for broadband saturable absorbers. Optics Express, 2018, 26, 31276.	3.4	23
72	Microâ€“Nanosized Nontraditional Evaporated Structures Based on Closely Packed Monolayer Binary Colloidal Crystals and Their Fine Structure Enhanced Properties. Journal of Physical Chemistry C, 2014, 118, 20521-20528.	3.1	22

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73	Tube-like $\text{Fe}_2\text{O}_3/\text{Ag}/\text{AgCl}$ heterostructure: controllable synthesis and enhanced plasmonic photocatalytic activity. <i>RSC Advances</i> , 2015, 5, 61239-61248.	3.6	22
74	Ion implantation inducing nanovoids characterized by TEM and STEM. <i>Solid State Communications</i> , 2006, 137, 362-365.	1.9	21
75	A Comparative Study of the Magnetic Behavior of Single and Tubular Clustered Magnetite Nanoparticles. <i>Journal of Low Temperature Physics</i> , 2012, 168, 306-313.	1.4	21
76	“Rings of saturn-like” nanoarrays with high number density of hot spots for surface-enhanced Raman scattering. <i>Applied Physics Letters</i> , 2014, 105, 033515.	3.3	21
77	Irradiation-induced $\text{TiO}_2$ nanorods for photoelectrochemical hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 5034-5041.	7.1	21
78	Thermal Conductivity, Electrical Resistivity, and Microstructure of Cu/W Multilayered Nanofilms. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 8886-8896.	8.0	21
79	Formation of Zn “ZnO core” shell nanoclusters by Zn/F sequential ion implantation. <i>Journal Physics D: Applied Physics</i> , 2006, 39, 488-491.	2.8	20
80	Enhanced and polarization dependence of surface-enhanced Raman scattering in silver nanoparticle array-nanowire systems. <i>Applied Physics Letters</i> , 2013, 102, 163108.	3.3	20
81	Modulating the threshold voltage of oxide nanowire field-effect transistors by a $\text{Ga}^+$ ion beam. <i>Nano Research</i> , 2014, 7, 1691-1698.	10.4	20
82	FePt nanoparticles: a novel nanoprobe for enhanced HeLa cells sensitivity to chemoradiotherapy. <i>RSC Advances</i> , 2016, 6, 35124-35134.	3.6	20
83	Fabrication of porous $\text{TiO}_2$ nanorod array photoelectrodes with enhanced photoelectrochemical water splitting by helium ion implantation. <i>Nanoscale</i> , 2016, 8, 10642-10648.	5.6	20
84	Self-Powered Lithium Niobate Thin-Film Photodetectors. <i>Small</i> , 2022, 18, .	10.0	20
85	Controllable synthesis and catalysis application of hierarchical PS/Au core “shell” nanocomposites. <i>Journal of Colloid and Interface Science</i> , 2012, 387, 47-55.	9.4	19
86	A strategy of engineering impurity distribution in metal oxide nanostructures for photoelectrochemical water splitting. <i>Journal of Materiomics</i> , 2015, 1, 134-145.	5.7	19
87	In situ TEM observation of helium bubble evolution in V/Ag multilayer during annealing. <i>Journal of Nuclear Materials</i> , 2015, 467, 537-543.	2.7	19
88	Vacancy-doped homojunction structural $\text{TiO}_2$ nanorod photoelectrodes with greatly enhanced photoelectrochemical activity. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 2057-2063.	7.1	19
89	Effect of thermal treatments on third-order nonlinear optical properties of hollow Cu nanoclusters. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006, 33, 244-248.	2.7	18
90	Formation of aligned silver nanoparticles by ion implantation. <i>Materials Letters</i> , 2007, 61, 4435-4437.	2.6	18

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91	Modified in situ and self-catalytic growth method for fabrication of Ag-coated nanocomposites with tailorable optical properties. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	18
92	Enhanced radiation tolerance of nanochannel V films through defects release. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2014, 334, 1-7.	1.4	18
93	FePt nanoparticles as a potential X-ray activated chemotherapy agent for HeLa cells. <i>International Journal of Nanomedicine</i> , 2015, 10, 6435.	6.7	18
94	Period-thickness dependent responses of Cu/W multilayered nanofilms to ions irradiation under different ion energies. <i>Journal of Nuclear Materials</i> , 2017, 497, 117-127.	2.7	18
95	Influence of nanochannel structure on helium-vacancy cluster evolution and helium retention. <i>Journal of Nuclear Materials</i> , 2019, 527, 151822.	2.7	18
96	Generation of High Quality, Uniform and Stable Plasmonic Colorants via Laser Direct Writing. <i>Advanced Optical Materials</i> , 2020, 8, 2000164.	7.3	18
97	Fabrication and annihilation of nanovoids in Cu nanoclusters by ion implantation into silica and subsequent annealing. <i>Applied Physics Letters</i> , 2006, 88, 183114.	3.3	17
98	Efficient enhancement of solar-water-splitting by modified $\alpha$ -Z-scheme structural WO <sub>3</sub> -W-Si photoelectrodes. <i>Applied Physics Letters</i> , 2014, 105, 143902.	3.3	17
99	A multifunctional vanadium-doped cobalt oxide layer on silicon photoanodes for efficient and stable photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21167-21177.	10.3	17
100	Evolution of helium bubbles below different tungsten surfaces under neutron irradiation and non-irradiation conditions. <i>Computational Materials Science</i> , 2018, 148, 242-248.	3.0	16
101	Formation and microstructural investigation of Ag-Cu alloy nanoclusters embedded in SiO <sub>2</sub> formed by sequential ion implantation. <i>Micron</i> , 2004, 35, 489-493.	2.2	15
102	Interface influence on the surface plasmon resonance of Ag nanocluster composite. <i>Solid State Communications</i> , 2005, 135, 268-272.	1.9	15
103	Effect of ingredient on optical properties of Ag/Cu metal alloy nanoclusters in silica glass. <i>Journal of Materials Science</i> , 2007, 42, 7294-7298.	3.7	15
104	Helium release and amorphization resistance in ion irradiated nanochannel films. <i>Europhysics Letters</i> , 2014, 106, 12001.	2.0	15
105	Microstructural evolution of nanochannel CrN films under ion irradiation at elevated temperature and post-irradiation annealing. <i>Journal of Nuclear Materials</i> , 2018, 500, 242-251.	2.7	15
106	Copper Nanoparticles Embedded in Lithium Tantalate Crystals for Multi-GHz Lasers. <i>ACS Applied Nano Materials</i> , 2019, 2, 5871-5877.	5.0	15
107	Facile Fabrication of Ultrafine Hollow Silica and Magnetic Hollow Silica Nanoparticles by a Dual-Templating Approach. <i>Nanoscale Research Letters</i> , 2010, 5, 116-123.	5.7	14
108	Side-to-side alignment of gold nanorods with polarization-free characteristic for highly reproducible surface enhanced Raman scattering. <i>Applied Physics Letters</i> , 2014, 105, 211902.	3.3	14

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109	Helium retention in krypton ion pre-irradiated nanochannel W film. Nuclear Fusion, 2018, 58, 026021.	3.5	14
110	Plasmonic Ag nanoparticles embedded in lithium tantalate crystal for ultrafast laser generation. Nanotechnology, 2019, 30, 334001.	2.6	14
111	86â€¦GHz Q-switched mode-locked waveguide lasing based on LiNbO <sub>3</sub> crystal embedded Cu nanoparticles. Optical Materials Express, 2019, 9, 3808.	3.0	14
112	Fabrication of single-crystal ZnO film by Zn ion implantation and subsequent annealing. Nanotechnology, 2007, 18, 285609.	2.6	13
113	Observation of ferromagnetism at room temperature for Cr <sup>+</sup> ions implanted ZnO thin films. Applied Surface Science, 2007, 253, 8524-8529.	6.1	13
114	Fabrication and properties of TiO <sub>2</sub> nanofilms on different substrates by a novel and universal method of Ti-ion implantation and subsequent annealing. Nanotechnology, 2013, 24, 255603.	2.6	13
115	Size-dependent radiation tolerance and corrosion resistance in ion irradiated CrN/AlTiN nanofilms. Nuclear Instruments & Methods in Physics Research B, 2015, 342, 137-143.	1.4	13
116	Understanding the release of helium atoms from nanochannel tungsten: a molecular dynamics simulation. Nuclear Fusion, 2019, 59, 076020.	3.5	13
117	Significant hydrogen isotopes permeation resistance via nitride nano-multilayer coating. International Journal of Hydrogen Energy, 2020, 45, 19583-19589.	7.1	13
118	Enhanced photoelectrochemical performance of an $\text{Fe}_2\text{O}_3$ nanorods photoanode with embedded nanocavities formed by helium ions implantation. International Journal of Hydrogen Energy, 2020, 45, 9408-9415.	7.1	13
119	Raman Scattering Studies on Ag Nanocluster Composites Formed by Ion Implantation into Silica. Japanese Journal of Applied Physics, 2005, 44, 8512-8514.	1.5	12
120	Cathodic shift of onset potential for water oxidation of WO <sub>3</sub> photoanode by Zr <sup>+</sup> ions implantation. Journal of Applied Physics, 2017, 121, .	2.5	12
121	Nearâ€¦Surface Buried Plasmonic Nanoparticles in Glass as Novel Nonlinear Saturable Absorbers for Ultrafast Lasers. Advanced Optical Materials, 2022, 10, 2101664.	7.3	12
122	Effect of ferromagnetic properties in Al-doped Zn <sub>1-x</sub> CoxO nanowires synthesized by water-assistance reactive vapor deposition. Journal of Applied Physics, 2007, 102, 114307.	2.5	11
123	Formation of TiO <sub>2</sub> nanorods by ion irradiation. Journal of Applied Physics, 2014, 115, 184306.	2.5	11
124	Effects of SiH <sub>4</sub> flow rate on microstructure and mechanical properties of TiSiN nanocomposite coatings by cathodic arc ion plating. Vacuum, 2015, 117, 12-16.	3.5	11
125	Optimization of AlCrO-based absorber with Mo infrared reflector for solar selective applications. Vacuum, 2016, 128, 27-33.	3.5	11
126	Embedded silver nanoparticles in KTP crystal produced by ion implantation. Materials Letters, 2017, 193, 158-160.	2.6	11

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127	Enhanced photoelectrochemical performance of TiO <sub>2</sub> through controlled Ar <sup>+</sup> ion irradiation: A combined experimental and theoretical study. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 6936-6944.	7.1	11
128	Plasmon-induced photoluminescence and Raman enhancement in Pr:CaF <sub>2</sub> crystal by embedded silver nanoparticles. <i>Applied Surface Science</i> , 2020, 530, 147018.	6.1	11
129	Constructing high-performance radiation-resistant ternary YSZ-MgO-CNT nanocomposites via tailored nanostructures. <i>Journal of the European Ceramic Society</i> , 2021, 41, 5280-5291.	5.7	11
130	Structure and Growth Mechanism of V/Ag Multilayers with Different Periodic Thickness Fabricated by Magnetron Sputtering Deposition. <i>Journal of Materials Science and Technology</i> , 2014, 30, 1012-1019.	10.7	10
131	Formation of tungsten oxide nanowires by ion irradiation and vacuum annealing. <i>Nanotechnology</i> , 2018, 29, 155301.	2.6	10
132	Swift heavy ion irradiation to ZnO nanoparticles: Steep degradation at low fluences and stable tolerance at high fluences. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	10
133	Surface plasmon enhanced photoluminescence of monolayer WS <sub>2</sub> on ion beam modified functional substrate. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	10
134	The problem of core/shell nanoclusters formation during ion implantation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2006, 245, 427-430.	1.4	9
135	Controlling the growth of ZnO quantum dots embedded in silica by Zn/F sequential ion implantation and subsequent annealing. <i>Nanotechnology</i> , 2008, 19, 155610.	2.6	9
136	Origin of white light luminescence from Si <sup>+</sup> /C <sup>+</sup> sequentially implanted and annealed silica. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	9
137	Novel doping for synthesis monodispersed TiO <sub>2</sub> grains filled into spindle-like hematite bi-component nanoparticles by ion implantation. <i>AIP Advances</i> , 2012, 2, .	1.3	9
138	Size control and magnetic properties of single layer monodisperse Ni nanoparticles prepared by magnetron sputtering. <i>Journal of Materials Science</i> , 2012, 47, 508-513.	3.7	9
139	Fabrication of nanoporous Si electrocathode by high-energy argon ion irradiation for improved electrocatalytic hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 64-71.	7.1	9
140	Smart 3D Network Nanocomposites Collect Irradiation-Induced "Trash" Matter, 2020, 3, 1631-1645.	10.0	9
141	A general method for large-scale fabrication of metal nanoparticles embedded N-doped carbon fiber cloth with highly efficient hydrogen production in all pH range. <i>Electrochimica Acta</i> , 2020, 353, 136475.	5.2	9
142	A better nanochannel tungsten film in releasing helium atoms. <i>Journal of Nuclear Materials</i> , 2020, 532, 152044.	2.7	9
143	Substrate grain boundary effects on the ordering of nanopores in anodic aluminum oxide. <i>Solid State Communications</i> , 2008, 148, 286-288.	1.9	8
144	ZnO single-crystal films fabricated by the oxidation of zinc-implanted sapphire. <i>Nanotechnology</i> , 2008, 19, 325604.	2.6	8

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145	Ion irradiation induced hollow and sandwiched nanoparticles. Journal of Applied Physics, 2008, 103, .	2.5	8
146	Synergistic effect of V/N codoping by ion implantation on the electronic and optical properties of TiO <sub>2</sub> . Journal of Applied Physics, 2014, 115, 143106.	2.5	8
147	Different Radiation Tolerances of Ultrafine-Grained Zirconia-Magnesia Composite Ceramics with Different Grain Sizes. Materials, 2019, 12, 2649.	2.9	8
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