Fen Ren

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

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#	Paper	IF	Citations
193	A review of Ga2O3 materials, processing, and devices. <i>Applied Physics Reviews</i> , 2018 , 5, 011301	17.3	1114
192	Controllable synthesis, magnetic properties, and enhanced photocatalytic activity of spindlelike mesoporous Fe(2)O(3)/ZnO core-shell heterostructures. <i>ACS Applied Materials & amp; Interfaces</i> , 2012 , 4, 3602-9	9.5	155
191	3D Flowerlike Fe2O3@TiO2 CoreBhell Nanostructures: General Synthesis and Enhanced Photocatalytic Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 2975-2984	8.3	154
190	N Doping to ZnO Nanorods for Photoelectrochemical Water Splitting under Visible Light: Engineered Impurity Distribution and Terraced Band Structure. <i>Scientific Reports</i> , 2015 , 5, 12925	4.9	143
189	Effect of Ag2S on solar-driven photocatalytic hydrogen evolution of nanostructured CdS. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 7110-7115	6.7	119
188	Large-Scale and Controlled Synthesis of Iron Oxide Magnetic Short Nanotubes: Shape Evolution, Growth Mechanism, and Magnetic Properties. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 16092-16103	3.8	113
187	Synthesis and Magnetic Properties of Maghemite (gamma-Fe(2)O(3)) Short-Nanotubes. <i>Nanoscale Research Letters</i> , 2010 , 5, 1474-1479	5	100
186	Subnanometer porous thin films by the co-assembly of nanotube subunits and block copolymers. <i>ACS Nano</i> , 2011 , 5, 1376-84	16.7	95
185	Controlled synthesis of magnetic iron oxides@SnO2 quasi-hollow core-shell heterostructures: formation mechanism, and enhanced photocatalytic activity. <i>Nanoscale</i> , 2011 , 3, 4676-84	7.7	84
184	Facile method to synthesize magnetic iron oxides/TiO2 hybrid nanoparticles and their photodegradation application of methylene blue. <i>Nanoscale Research Letters</i> , 2011 , 6, 533	5	82
183	Mechanism of the enhancement and quenching of ZnO photoluminescence by ZnO-Ag coupling. <i>Europhysics Letters</i> , 2011 , 93, 57009	1.6	79
182	Tube-like ternary Fe2O3@SnO2@Cu2O sandwich heterostructures: synthesis and enhanced photocatalytic properties. <i>ACS Applied Materials & District Research</i> , 13088-97	9.5	70
181	Activating ZnO nanorod photoanodes in visible light by Cu ion implantation. <i>Nano Research</i> , 2014 , 7, 353-364	10	69
180	V ions implanted ZnO nanorod arrays for photoelectrochemical water splitting under visible light. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 1394-1401	6.7	68
179	SiO2AgBiO2IIiO2 multi-shell structures: plasmon enhanced photocatalysts with wide-spectral-response. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 13128	13	64
178	Template and silica interlayer tailorable synthesis of spindle-like multilayer Fe2O3/Ag/SnO2 ternary hybrid architectures and their enhanced photocatalytic activity. <i>ACS Applied Materials & Amp; Interfaces</i> , 2014 , 6, 1113-24	9.5	60
177	Controlled synthesis of monodisperse sub-100 nm hollow SnO2 nanospheres: a template- and surfactant-free solution-phase route, the growth mechanism, optical properties, and application as a photocatalyst. <i>Chemistry - A European Journal</i> , 2011 , 17, 9708-19	4.8	57

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176	Surface plasmon-enhanced light emission using silver nanoparticles embedded in ZnO. <i>Applied Physics Letters</i> , 2010 , 97, 071909	3.4	55	
175	Controllable synthesis of recyclable core-shell Fe2O3@SnO2 hollow nanoparticles with enhanced photocatalytic and gas sensing properties. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 8228-36	3.6	52	
174	Preparation and characterization of spindle-like Fe3O4 mesoporous nanoparticles. <i>Nanoscale Research Letters</i> , 2011 , 6, 89	5	52	
173	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	50	
172	Greatly reduced leakage current in BiFeO3thin film by oxygen ion implantation. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 5775-5777	3	48	
171	Synthesis of TiO@g-CN 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	9.3	46	
170	Preparation of M@BiFeO3 Nanocomposites (MI=IAg, Au) Bowl Arrays with Enhanced Visible Light Photocatalytic Activity. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 2255-2263	3.8	46	
169	Non-centrosymmetric Au-SnO2 hybrid nanostructures with strong localization of plasmonic for enhanced photocatalysis application. <i>Nanoscale</i> , 2013 , 5, 5628-36	7.7	46	
168	Determination of MgOtaN heterojunction band offsets by x-ray photoelectron spectroscopy. <i>Applied Physics Letters</i> , 2006 , 88, 042113	3.4	46	
167	A General Method for Large-Scale Fabrication of Semiconducting Oxides with High SERS Sensitivity. <i>ACS Applied Materials & ACS Applied & ACS</i>	9.5	45	
166	Solar light-driven photocatalytic hydrogen evolution over ZnIn2S4 loaded with transition-metal sulfides. <i>Nanoscale Research Letters</i> , 2011 , 6, 290	5	45	
165	Zinc Oxide Coating Effect for the Dye Removal and Photocatalytic Mechanisms of Flower-Like MoS Nanoparticles. <i>Nanoscale Research Letters</i> , 2017 , 12, 221	5	43	
164	Ultrafast Self-Limited Growth of Strictly Monolayer WSe Crystals. Small, 2016, 12, 5741-5749	11	42	
163	Controlling the morphology of Ag nanoclusters by ion implantation to different doses and subsequent annealing. <i>Physical Review Letters</i> , 2006 , 97, 165501	7.4	42	
162	In situ Oxidation and Self-Assembly Synthesis of Dumbbell-like Fe2O3/Ag/AgX (X = Cl, Br, I) Heterostructures with Enhanced Photocatalytic Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 1521-1530	8.3	41	
161	In situ Raman scattering study on a controllable plasmon-driven surface catalysis reaction on Ag nanoparticle arrays. <i>Nanotechnology</i> , 2012 , 23, 335701	3.4	41	
160	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	6.4	40	
159	Enhanced photocatalysis by coupling of anatase TiO2 film to triangular Ag nanoparticle island. <i>Nanoscale Research Letters</i> , 2012 , 7, 239	5	40	

Enhancement of third-order nonlinearity in Ag-nanoparticles-contained chalcohalide glasses.

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Letters, 2013, 8, 175

Journal of Nanoparticle Research, **2011**, 13, 3693-3697

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140	Monolayer graphene on nanostructured Ag for enhancement of surface-enhanced Raman scattering stable platform. <i>Nanotechnology</i> , 2015 , 26, 125603	3.4	21	
139	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	8.3	21	
138	Monolithic waveguide laser mode-locked by embedded Ag nanoparticles operating at 1 h. <i>Nanophotonics</i> , 2019 , 8, 859-868	6.3	21	
137	Effect of ingredient concentration on structure and optical properties of Cu nanoclusters. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006 , 357, 364-368	2.3	21	
136	Nonlinear Absorption Response Correlated to Embedded Ag Nanoparticles in BGO Single Crystal: From Two-Photon to Three-Photon Absorption. <i>Scientific Reports</i> , 2018 , 8, 1977	4.9	20	
135	R ings of saturn-likelhanoarrays with high number density of hot spots for surface-enhanced Raman scattering. <i>Applied Physics Letters</i> , 2014 , 105, 033515	3.4	20	
134	MicroNanosized Nontraditional Evaporated Structures Based on Closely Packed Monolayer Binary Colloidal Crystals and Their Fine Structure Enhanced Properties. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 20521-20528	3.8	20	
133	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	1.3	20	
132	Ion implantation inducing nanovoids characterized by TEM and STEM. <i>Solid State Communications</i> , 2006 , 137, 362-365	1.6	20	
131	In situ TEM observation of helium bubble evolution in V/Ag multilayer during annealing. <i>Journal of Nuclear Materials</i> , 2015 , 467, 537-543	3.3	19	
130	Modulating the threshold voltage of oxide nanowire field-effect transistors by a Ga+ ion beam. <i>Nano Research</i> , 2014 , 7, 1691-1698	10	19	
129	Controllable synthesis and catalysis application of hierarchical PS/Au core-shell nanocomposites. <i>Journal of Colloid and Interface Science</i> , 2012 , 387, 47-55	9.3	19	
128	Third-order nonlinearity in Ag-nanoparticles embedded 56GeS2🛮4Ga2S3🗷0KBr chalcohalide glasses. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 2320-2323	3.9	19	
127	Characterization of DC reactive magnetron sputtered NiO films using spectroscopic ellipsometry. <i>Applied Surface Science</i> , 2011 , 257, 5908-5912	6.7	19	
126	Formation of ZnInO corellhell nanoclusters by Zn/F sequential ion implantation. <i>Journal Physics D: Applied Physics</i> , 2006 , 39, 488-491	3	19	
125	Enhanced PEC performance of nanoporous Si photoelectrodes by covering HfO and TiO passivation layers. <i>Scientific Reports</i> , 2017 , 7, 43901	4.9	18	
124	Irradiation-induced TiO2 nanorods for photoelectrochemical hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 5034-5041	6.7	18	
123	Carbon and silica interlayer influence for the photocatalytic performances of spindle-like Fe2O3/Bi2O3 pB heterostructures. <i>Materials Science in Semiconductor Processing</i> , 2016 , 41, 411-419	4.3	18	

122	Enhanced and polarization dependence of surface-enhanced Raman scattering in silver nanoparticle array-nanowire systems. <i>Applied Physics Letters</i> , 2013 , 102, 163108	3.4	18
121	Design of Enhanced Catalysts by Coupling of Noble Metals (Au,Ag) with Semiconductor SnO2 for Catalytic Reduction of 4-Nitrophenol. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 212-220	3.1	18
120	Enhanced radiation tolerance of YSZ/Al2O3 multilayered nanofilms with pre-existing nanovoids. <i>Acta Materialia</i> , 2018 , 144, 691-699	8.4	18
119	Tube-like #e2O3@Ag/AgCl heterostructure: controllable synthesis and enhanced plasmonic photocatalytic activity. <i>RSC Advances</i> , 2015 , 5, 61239-61248	3.7	17
118	Efficient enhancement of solar-water-splitting by modified Z -scheme L tructural WO3-W-Si photoelectrodes. <i>Applied Physics Letters</i> , 2014 , 105, 143902	3.4	17
117	Tailoring optical nonlinearities of LiNbO crystals by plasmonic silver nanoparticles for broadband saturable absorbers. <i>Optics Express</i> , 2018 , 26, 31276-31289	3.3	17
116	FePt nanoparticles: a novel nanoprobe for enhanced HeLa cells sensitivity to chemoradiotherapy. <i>RSC Advances</i> , 2016 , 6, 35124-35134	3.7	17
115	Fabrication of porous TiO2 nanorod array photoelectrodes with enhanced photoelectrochemical water splitting by helium ion implantation. <i>Nanoscale</i> , 2016 , 8, 10642-8	7.7	16
114	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	2.3	16
113	Fabrication and annihilation of nanovoids in Cu nanoclusters by ion implantation into silica and subsequent annealing. <i>Applied Physics Letters</i> , 2006 , 88, 183114	3.4	16
112	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	3	16
111	Vacancy-doped homojunction structural TiO2 nanorod photoelectrodes with greatly enhanced photoelectrochemical activity. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 2057-2063	6.7	15
110	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	3.3	15
109	A strategy of engineering impurity distribution in metal oxide nanostructures for photoelectrochemical water splitting. <i>Journal of Materiomics</i> , 2015 , 1, 134-145	6.7	14
108	FePt nanoparticles as a potential X-ray activated chemotherapy agent for HeLa cells. <i>International Journal of Nanomedicine</i> , 2015 , 10, 6435-44	7.3	14
107	Facile Fabrication of Ultrafine Hollow Silica and Magnetic Hollow Silica Nanoparticles by a Dual-Templating Approach. <i>Nanoscale Research Letters</i> , 2009 , 5, 116-123	5	14
106	Formation of aligned silver nanoparticles by ion implantation. <i>Materials Letters</i> , 2007 , 61, 4435-4437	3.3	14
105	Enhanced thermal stability of solar selective absorber based on nano-multilayered TiAlON films deposited by cathodic arc evaporation. <i>Applied Surface Science</i> , 2020 , 501, 144025	6.7	14

104	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	3.4	13	
103	Observation of ferromagnetism at room temperature for Cr+ ions implanted ZnO thin films. <i>Applied Surface Science</i> , 2007 , 253, 8524-8529	6.7	13	
102	Formation and microstructural investigation of Ag-Cu alloy nanoclusters embedded in SiO2 formed by sequential ion implantation. <i>Micron</i> , 2004 , 35, 489-93	2.3	13	
101	Interface influence on the surface plasmon resonance of Ag nanocluster composite. <i>Solid State Communications</i> , 2005 , 135, 268-272	1.6	13	
100	Ion Irradiation Inducing Oxygen Vacancy-Rich NiO/NiFe O Heterostructure for Enhanced Electrocatalytic Water Splitting. <i>Small</i> , 2021 , 17, e2103501	11	13	
99	Enhanced radiation tolerance of nanochannel V films through defects release. <i>Nuclear Instruments</i> & <i>Methods in Physics Research B</i> , 2014 , 334, 1-7	1.2	12	
98	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	4.3	12	
97	Raman Scattering Studies on Ag Nanocluster Composites Formed by Ion Implantation into Silica. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 8512-8514	1.4	12	
96	Surface Electronic Structure Reconfiguration of Hematite Nanorods for Efficient Photoanodic Water Oxidation. <i>Solar Rrl</i> , 2020 , 4, 1900349	7.1	12	
95	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	13	12	
94	Influence of nanochannel structure on helium-vacancy cluster evolution and helium retention. <i>Journal of Nuclear Materials</i> , 2019 , 527, 151822	3.3	11	
93	Evolution of helium bubbles below different tungsten surfaces under neutron irradiation and non-irradiation conditions. <i>Computational Materials Science</i> , 2018 , 148, 242-248	3.2	11	
92	Helium release and amorphization resistance in ion irradiated nanochannel films. <i>Europhysics Letters</i> , 2014 , 106, 12001	1.6	11	
91	Fabrication and properties of TiO2 nanofilms on different substrates by a novel and universal method of Ti-ion implantation and subsequent annealing. <i>Nanotechnology</i> , 2013 , 24, 255603	3.4	11	
90	Effect of ferromagnetic properties in Al-doped Zn1\(\mathbb{L}\)CoxO nanowires synthesized by water-assistance reactive vapor deposition. <i>Journal of Applied Physics</i> , 2007 , 102, 114307	2.5	11	
89	86 GHz Q-switched mode-locked waveguide lasing based on LiNbO3 crystal embedded Cu nanoparticles. <i>Optical Materials Express</i> , 2019 , 9, 3808	2.6	11	
88	Cathodic shift of onset potential for water oxidation of WO3 photoanode by Zr+ ions implantation. <i>Journal of Applied Physics</i> , 2017 , 121, 085305	2.5	10	
87	Copper Nanoparticles Embedded in Lithium Tantalate Crystals for Multi-GHz Lasers. <i>ACS Applied Nano Materials</i> , 2019 , 2, 5871-5877	5.6	10	

86	Size-dependent radiation tolerance and corrosion resistance in ion irradiated CrN/AlTiN nanofilms. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015 , 342, 137-143	1.2	10
85	Formation of TiO2 nanorods by ion irradiation. <i>Journal of Applied Physics</i> , 2014 , 115, 184306	2.5	10
84	Fabrication of single-crystal ZnO film by Zn ion implantation and subsequent annealing. <i>Nanotechnology</i> , 2007 , 18, 285609	3.4	10
83	Application of ion beam technology in (photo)electrocatalytic materials for renewable energy. <i>Applied Physics Reviews</i> , 2020 , 7, 041303	17.3	10
82	Effects of SiH4 flow rate on microstructure and mechanical properties of TiSiN nanocomposite coatings by cathodic arc ion plating. <i>Vacuum</i> , 2015 , 117, 12-16	3.7	9
81	Enhanced photoelectrochemical performance of an Fe2O3 nanorods photoanode with embedded nanocavities formed by helium ions implantation. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 9408-9415	6.7	9
80	Helium retention in krypton ion pre-irradiated nanochannel W film. <i>Nuclear Fusion</i> , 2018 , 58, 026021	3.3	9
79	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	3.4	9
78	Self-Assembly of Carbon Black/AAO Templates on Nanoporous Si for Broadband Infrared Absorption. <i>ACS Applied Materials & Discrete Samp; Interfaces</i> , 2020 , 12, 4081-4087	9.5	9
77	Generation of High Quality, Uniform and Stable Plasmonic Colorants via Laser Direct Writing. <i>Advanced Optical Materials</i> , 2020 , 8, 2000164	8.1	9
76	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, 145901	2.5	9
75	Plasmonic Ag nanoparticles embedded in lithium tantalate crystal for ultrafast laser generation. <i>Nanotechnology</i> , 2019 , 30, 334001	3.4	8
74	Plasmon-induced photoluminescence and Raman enhancement in Pr:CaF2 crystal by embedded silver nanoparticles. <i>Applied Surface Science</i> , 2020 , 530, 147018	6.7	8
73	Thermal Conductivity, Electrical Resistivity, and Microstructure of Cu/W Multilayered Nanofilms. <i>ACS Applied Materials & Discrete Samp; Interfaces</i> , 2020 , 12, 8886-8896	9.5	8
72	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	6.7	8
71	Optimization of AlCrO-based absorber with Mo infrared reflector for solar selective applications. <i>Vacuum</i> , 2016 , 128, 27-33	3.7	8
70	Substrate grain boundary effects on the ordering of nanopores in anodic aluminum oxide. <i>Solid State Communications</i> , 2008 , 148, 286-288	1.6	8
69	The problem of core/shell nanoclusters formation during ion implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 245, 427-430	1.2	8

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68	Understanding the release of helium atoms from nanochannel tungsten: a molecular dynamics simulation. <i>Nuclear Fusion</i> , 2019 , 59, 076020	3.3	7
67	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	3.3	7
66	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	4.3	7
65	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	9.1	7
64	Spindle-like alpha-Fe2O3 embedded with TiO2 nanocrystalline: ion implantation preparation and enhanced magnetic properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 5428-33	1.3	7
63	Influence of annealing temperatures and time on the photoluminescence properties of Si nanocrystals embedded in SiO2. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009 , 267, 3437-3-	4 ¹ 42	7
62	ZnO single-crystal films fabricated by the oxidation of zinc-implanted sapphire. <i>Nanotechnology</i> , 2008 , 19, 325604	3.4	7
61	Ion irradiation induced hollow and sandwiched nanoparticles. Journal of Applied Physics, 2008, 103, 0843	3 0 .8	7
60	Embedded silver nanoparticles in KTP crystal produced by ion implantation. <i>Materials Letters</i> , 2017 , 193, 158-160	3.3	6
59	Formation of tungsten oxide nanowires by ion irradiation and vacuum annealing. <i>Nanotechnology</i> , 2018 , 29, 155301	3.4	6
58	Enhanced photoelectrochemical performance of TiO2 through controlled Ar+ ion irradiation: A combined experimental and theoretical study. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 6936-	69744	6
57	Energy dependence on formation of TiO2 nanofilms by Ti ion implantation and annealing. <i>Materials Research Bulletin</i> , 2014 , 51, 376-380	5.1	6
56	Synthesis of graphene by MEVVA source ion implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 305, 29-32	1.2	6
55	Synergistic effect of V/N codoping by ion implantation on the electronic and optical properties of TiO2. <i>Journal of Applied Physics</i> , 2014 , 115, 143106	2.5	6
54	Origin of white light luminescence from Si+/C+ sequentially implanted and annealed silica. <i>Journal of Applied Physics</i> , 2012 , 111, 084304	2.5	6
53	Novel doping for synthesis monodispersed TiO2 grains filled into spindle-like hematite bi-component nanoparticles by ion implantation. <i>AIP Advances</i> , 2012 , 2, 032179	1.5	6
52	A Novel Hierarchical Nanostructure for Enhanced Optical Nonlinearity Based on Scattering Mechanism. <i>Small</i> , 2020 , 16, e2003172	11	6
51	A Plasmon-Enhanced SnSe Photodetector by Non-Contact Ag Nanoparticles. <i>Small</i> , 2021 , 17, e2102351	11	6

50	A better nanochannel tungsten film in releasing helium atoms. <i>Journal of Nuclear Materials</i> , 2020 , 532, 152044	3.3	5
49	Fabrication of Ag nanoclusters in single-crystal MgO by high-energy ion implantation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 705-708	3	5
48	Effect of thermal annealing on the optical properties of low-energy Cu-implanted silica glass. <i>Physica B: Condensed Matter</i> , 2006 , 373, 341-345	2.8	5
47	W ion implantation boosting visible-light photoelectrochemical water splitting over ZnO nanorod arrays. <i>Journal of Photonics for Energy</i> , 2017 , 7, 016501	1.2	4
46	One-step synthesis of hierarchically porous hybrid TiO2 hollow spheres with high photocatalytic activity. <i>Frontiers of Materials Science</i> , 2016 , 10, 15-22	2.5	4
45	Ag nanoparticles embedded in Nd:YAG crystals irradiated with tilted beam of 200 MeV Xe ions: optical dichroism correlated to particle reshaping. <i>Nanotechnology</i> , 2018 , 29, 424001	3.4	4
44	Influence of annealing temperature on the properties of TiO2 films annealed by ex situ and in situ TEM. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2012 , 27, 1014-1019	1	4
43	A Novel Way to Fabricate Superhydrophilic and Antibacterial TiO2Nanofilms on Glass by Ion Implantation and Subsequent Annealing. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 100207	1.4	4
42	Antibacterial silver-containing silica glass prepared by ion implantation. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 6424-7	1.3	4
41	Controllable Synthesis of TiO2Submicrospheres with Smooth or Rough Surface. <i>Chemistry Letters</i> , 2010 , 39, 684-685	1.7	4
40	Controlling the microstructure of ZnO nanoparticles embedded in Sapphire by Zn ion implantation and subsequent annealing. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010 , 268, 2702-2705	1.2	4
39	Metal alloy and monoelemental nanoclusters in silica formed by sequential ion implantation and annealing in selected atmosphere. <i>Physica B: Condensed Matter</i> , 2004 , 353, 92-97	2.8	4
38	Extremely Low Thermal Conductivity and Enhanced Thermoelectric Performance of Porous Gallium-Doped In2O3. ACS Applied Energy Materials,	6.1	4
37	Significant hydrogen isotopes permeation resistance via nitride nano-multilayer coating. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 19583-19589	6.7	4
36	Surface plasmon enhanced photoluminescence of monolayer WS2 on ion beam modified functional substrate. <i>Applied Physics Letters</i> , 2021 , 118, 263103	3.4	4
35	Controllable synthesis of Au@SnO2coreBhell nanohybrids with enhanced photocatalytic activities. <i>Materials Research Express</i> , 2017 , 4, 055502	1.7	3
34	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, 13	64 7 5	3
33	Fabrication and characterization of Ag-implantation modificated TiO2 films followed with thermal annealing. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 307, 373-376	1.2	3

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32	A General Synthesis Strategy for Hierarchical Porous Metal Oxide Hollow Spheres. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-7	3.2	3
31	Formation of metal nanoparticles in silica by the sequential implantation of Ag and Cu. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 89, 681-684	2.6	3
30	The use of electron backscatter diffraction to measure the elastic strain fields in a misfit dislocation-free InGaAsP/InP heterostructure. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 7302-7305	3	3
29	Smart 3D Network Nanocomposites Collect Irradiation-Induced Trash Matter, 2020 , 3, 1631-1645	12.7	3
28	Near-Infrared All-Optical Switching Based on Nano/Micro Optical Structures in YVO4 Matrix: Embedded Plasmonic Nanoparticles and Laser-Written Waveguides. <i>Advanced Photonics Research</i> , 2021 , 2, 2000064	1.9	3
27	Fabrication of TiO2-based composite films by sequential ion implantation and subsequent annealing. <i>Materials Research Express</i> , 2014 , 1, 025703	1.7	2
26	Fabrication of hollow nanoclusters by ion implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007 , 262, 201-204	1.2	2
25	Fabrication of hollow Ag nanoclusters in silica by irradiation with Ar ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008 , 266, 889-893	1.2	2
24	Plasmonic core-shell nano-heterostructures with temperature-dependent optical nonlinearity. <i>Nanoscale</i> , 2020 , 12, 22995-23002	7.7	2
23	Selective trapping of positrons by Ag nanolayers in a V/Ag multilayer system. <i>AIP Advances</i> , 2020 , 10, 035012	1.5	2
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21	Oxygen vacancy enhanced room temperature ferromagnetism in Ar+ ion irradiated WO3 films. <i>Ceramics International</i> , 2021 , 47, 5091-5098	5.1	2
20	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	6	2
19	Plasmon-enhanced third-order optical nonlinearity of monolayer MoS2. <i>Applied Physics Letters</i> , 2022 , 120, 193101	3.4	2
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17	Study of doping uniformity of a 200 kV ion implanter by RBS and sheet resistance measurements. <i>Nuclear Science and Techniques/Hewuli</i> , 2016 , 27, 1	2.1	1
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15	Extremely low thermal conductivity of G a2O3 with porous structure. <i>Journal of Applied Physics</i> , 2021 , 130, 195103	2.5	1

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13	Near-Surface Buried Plasmonic Nanoparticles in Glass as Novel Nonlinear Saturable Absorbers for Ultrafast Lasers. <i>Advanced Optical Materials</i> ,2101664	8.1	1
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