

Umapada Pal

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244
papers

8,230
citations

48
h-index

82
g-index

250
ext. papers

9,243
ext. citations

4.4
avg, IF

6.4
L-index

#	Paper	IF	Citations
244	Effects of crystallization and dopant concentration on the emission behavior of TiO ₂ :Eu nanophosphors. <i>Nanoscale Research Letters</i> , 2012 , 7, 1	5	1268
243	Photoluminescence and FTIR study of ZnO nanoparticles: the impurity and defect perspective. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006 , 3, 3577-3581		299
242	Controlling the morphology of ZnO nanostructures in a low-temperature hydrothermal process. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 15317-21	3.4	253
241	Photoluminescence and Raman Scattering in Ag-doped ZnO Nanoparticles. <i>Journal of Applied Physics</i> , 2011 , 109, 014308	2.5	184
240	Size-Controlled Synthesis of Spherical TiO ₂ Nanoparticles: Morphology, Crystallization, and Phase Transition. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 96-102	3.8	166
239	Photoluminescence (PL) quenching and enhanced photocatalytic activity of Au-decorated ZnO nanorods fabricated through microwave-assisted chemical synthesis. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 4807-16	9.5	159
238	Effects of morphology, surface area, and defect content on the photocatalytic dye degradation performance of ZnO nanostructures. <i>RSC Advances</i> , 2014 , 4, 41099-41110	3.7	147
237	Correlations among size, defects, and photoluminescence in ZnO nanoparticles. <i>Journal of Applied Physics</i> , 2007 , 101, 024317	2.5	143
236	Scattering of electromagnetic radiation by a multilayered sphere. <i>Computer Physics Communications</i> , 2009 , 180, 2348-2354	4.2	122
235	Photocatalytic behavior of ZnO and Pt-incorporated ZnO nanoparticles in phenol degradation. <i>Applied Catalysis A: General</i> , 2011 , 394, 269-275	5.1	120
234	Structural, Magnetic, and Catalytic Evaluation of Spinel Co, Ni, and Co-Ni Ferrite Nanoparticles Fabricated by Low-Temperature Solution Combustion Process. <i>ACS Omega</i> , 2018 , 3, 14986-15001	3.9	114
233	Plasmon induced enhanced photocatalytic activity of gold loaded hydroxyapatite nanoparticles for methylene blue degradation under visible light. <i>RSC Advances</i> , 2017 , 7, 8633-8645	3.7	98
232	Preparation of Dendritic Copper Nanostructures and Their Characterization for Electroreduction. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 15891-15896	3.8	95
231	Synthesis and optical properties of ZnO nanostructures with different morphologies. <i>Optical Materials</i> , 2006 , 29, 65-69	3.3	93
230	Optical constants of vacuum-evaporated polycrystalline cadmium selenide thin films. <i>Journal of Applied Physics</i> , 1993 , 74, 6368-6374	2.5	93
229	Biodiesel production from <i>Jatropha curcas</i> crude oil using ZnO/SiO ₂ photocatalyst for free fatty acids esterification. <i>Applied Catalysis B: Environmental</i> , 2013 , 129, 39-47	21.8	91
228	Structural incoherency and structure reversal in bimetallic AuPd nanoclusters. <i>Physical Review B</i> , 2005 , 71,	3.3	85

227	Surface reconstruction and decahedral structure of bimetallic nanoparticles. <i>Physical Review Letters</i> , 2004 , 92, 196102	7.4	83
226	Surface functionalized halloysite nanotubes decorated with silver nanoparticles for enzyme immobilization and biosensing. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 2553-2560	7.3	79
225	Effect of Ag doping on the crystallization and phase transition of TiO ₂ nanoparticles. <i>Current Applied Physics</i> , 2009 , 9, 1097-1105	2.6	79
224	Optical characterization of vacuum evaporated cadmium sulfide films. <i>Thin Solid Films</i> , 1997 , 305, 345-350	2.2	79
223	Study on charge storage mechanism in working electrodes fabricated by sol-gel derived spinel NiMn ₂ O ₄ nanoparticles for supercapacitor application. <i>Applied Surface Science</i> , 2019 , 463, 513-525	6.7	78
222	Enhanced Fano Resonance in Asymmetrical Au:Ag Heterodimers. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 6410-6414	3.8	75
221	Au@Ag core-shell nanoparticles: efficient all-plasmonic Fano-resonance generators. <i>Nanoscale</i> , 2011 , 3, 3609-12	7.7	71
220	Evolution of ZnO nanostructures in sol-gel synthesis. <i>Current Applied Physics</i> , 2009 , 9, 792-796	2.6	69
219	Natural origin hydroxyapatite scaffold as potential bone tissue engineering substitute. <i>Ceramics International</i> , 2016 , 42, 18338-18346	5.1	67
218	Effect of metal-ion doping on the optical properties of nanocrystalline ZnO thin films. <i>Journal of Applied Physics</i> , 2006 , 99, 014306	2.5	67
217	Improving electrochromic behavior of spray pyrolysed WO ₃ thin solid films by Mo doping. <i>Electrochimica Acta</i> , 2011 , 56, 2599-2605	6.7	66
216	Thermodynamic Stability and Melting Mechanism of Bimetallic AuPt Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 19173-19177	3.8	66
215	Some optical properties of evaporated zinc telluride films. <i>Journal Physics D: Applied Physics</i> , 1989 , 22, 965-970	3	65
214	Electronic state of silver in Ag/SiO ₂ and Ag/ZnO catalysts and its effect on diesel particulate matter oxidation: An XPS study. <i>Applied Catalysis B: Environmental</i> , 2017 , 216, 1-10	21.8	63
213	Size controlled green synthesis of gold nanoparticles using seed extract and their catalytic performance in 4-nitrophenol reduction.. <i>RSC Advances</i> , 2018 , 8, 24819-24826	3.7	61
212	Tunable Fano resonance in symmetric multilayered gold nanoshells. <i>Nanoscale</i> , 2013 , 5, 209-16	7.7	61
211	Enhanced plasmonic behavior of bimetallic (Ag-Au) multilayered spheres. <i>Nanoscale Research Letters</i> , 2011 , 6, 279	5	60
210	Generation of biogas from coffee-pulp and cow-dung co-digestion: Infrared studies of postcombustion emissions. <i>Energy Conversion and Management</i> , 2013 , 74, 471-481	10.6	59

209	Structural transformation of Au-Pd bimetallic nanoclusters on thermal heating and cooling: a dynamic analysis. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 5191-5	3.4	59
208	Recent progress on fabrication and drug delivery applications of nanostructured hydroxyapatite. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2018 , 10, e1504	9.2	59
207	Synthesis of CuS nanoparticles by a wet chemical route and their photocatalytic activity. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	57
206	Mixed titanium, silicon, and aluminum oxide nanostructures as novel adsorbent for removal of rhodamine 6G and methylene blue as cationic dyes from aqueous solution. <i>Chemosphere</i> , 2016 , 163, 142-152	8.4	57
205	Linear optical response of metallic nanoshells in different dielectric media. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008 , 25, 1371	1.7	57
204	Encapsulated-dye all-organic charged colored ink nanoparticles for electrophoretic image display. <i>Advanced Materials</i> , 2009 , 21, 4987-4991	2.4	54
203	Stable Tin (n = 2-15) clusters and their geometries: DFT calculations. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 10274-8	2.8	53
202	Optical nonlinearities of Au nanoparticles embedded in a zinc oxide matrix. <i>Optics Communications</i> , 2007 , 273, 538-543	2	51
201	Indium doping in nanostructured ZnO through low-temperature hydrothermal process. <i>Optical Materials</i> , 2006 , 29, 100-104	3.3	51
200	Red emitting Y ₂ O ₃ :Eu ³⁺ nanophosphors with >80% down conversion efficiency. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 496-500	7.1	49
199	MieLab: A Software Tool to Perform Calculations on the Scattering of Electromagnetic Waves by Multilayered Spheres. <i>International Journal of Spectroscopy</i> , 2011 , 2011, 1-10		49
198	Synthesis and Optical Properties of Au-Ag Alloy Nanoclusters with Controlled Composition. <i>Journal of Nanomaterials</i> , 2008 , 2008, 1-9	3.2	49
197	3D hydroxyapatite scaffold for bone regeneration and local drug delivery applications. <i>Journal of Drug Delivery Science and Technology</i> , 2019 , 53, 101131	4.5	48
196	Biodiesel production from waste frying oil using waste animal bone and solar heat. <i>Waste Management</i> , 2016 , 47, 105-13	8.6	47
195	Defect annihilation and morphological improvement of hydrothermally grown ZnO nanorods by Ga doping. <i>Applied Physics Letters</i> , 2008 , 93, 193120	3.4	47
194	Transmission electron microscopy and theoretical analysis of AuCu nanoparticles: atomic distribution and dynamic behavior. <i>Microscopy Research and Technique</i> , 2006 , 69, 522-30	2.8	47
193	Thermolytic Growth of ZnO Nanocrystals: Morphology Control and Optical Properties. <i>Crystal Growth and Design</i> , 2009 , 9, 297-300	3.5	44
192	One-Step Green Synthesis and Stabilization of Au and Ag Nanoparticles Using Ionic Polymers. <i>Chemistry of Materials</i> , 2008 , 20, 5146-5153	9.6	44

191	Effect of Different Surfactants on the Size Control and Optical Properties of Y ₂ O ₃ :Eu ³⁺ Nanoparticles Prepared by Coprecipitation Method. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 13600-13604	3.8	43
190	CdTe/CdS Solar cells on flexible molybdenum substrates. <i>Solar Energy Materials and Solar Cells</i> , 2004 , 82, 307-314	6.4	42
189	Fabrication of Monodispersed Au@SiO ₂ Nanoparticles with Highly Stable Silica Layers by Ultrasound-Assisted Stober Method. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 9543-9551	3.8	39
188	Ultrasound-Assisted Synthesis of Mesoporous ZnO Nanostructures of Different Porosities. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 14676-14680	3.8	39
187	Third-order nonlinear-optical parameters of gold nanoparticles in different matrices. <i>Journal of Luminescence</i> , 2007 , 127, 181-185	3.8	39
186	Structure and optical properties of M/ZnO (M=Au, Cu, Pt) nanocomposites. <i>Solar Energy Materials and Solar Cells</i> , 2004 , 81, 339-348	6.4	39
185	Sputtered deposited nanocrystalline ZnO films: A correlation between electrical, optical and microstructural properties. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 80, 1641-1646	2.6	39
184	Biodiesel and fossil-fuel diesel soot oxidation activities of Ag/CeO ₂ catalyst. <i>Fuel</i> , 2019 , 250, 17-26	7.1	37
183	Diesel soot oxidation over silver-loaded SiO ₂ catalysts. <i>Catalysis Today</i> , 2013 , 212, 63-69	5.3	37
182	Effect of thermal annealing on Te precipitates in CdTe wafers studied by Raman scattering and cathodoluminescence. <i>Journal of Applied Physics</i> , 1995 , 77, 2806-2808	2.5	37
181	Optical Properties of CdTe Thin Films. <i>Physica Status Solidi A</i> , 1989 , 114, 721-729		37
180	Magnetic Nanoparticles with Core/Shell Structures. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 2781-2792	1.3	36
179	Structural characterization of cadmium selenide thin films by X-ray diffraction and electron microscopy. <i>Journal Physics D: Applied Physics</i> , 1992 , 25, 1488-1494	3	36
178	Au/Al ₂ O ₃ nanocomposites: XPS and FTIR spectroscopic studies. <i>Solar Energy Materials and Solar Cells</i> , 2004 , 82, 291-298	6.4	35
177	Cathodoluminescence characterization of Ge-doped CdTe crystals. <i>Journal of Applied Physics</i> , 1995 , 78, 1992-1995	2.5	35
176	Controlled synthesis of Pt nanoparticle supported TiO ₂ nanorods as efficient and stable electrocatalysts for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23435-23444	1.2	35
175	Blue and red dual emission nanophosphor CaMgSi ₂ O ₆ :Eu ²⁺ ; crystal structure and electronic configuration. <i>Journal of Luminescence</i> , 2012 , 132, 659-664	3.8	34
174	Synthesis and structure determination of bimetallic Au/Cu nanoparticles. <i>Applied Physics A: Materials Science and Processing</i> , 2004 , 79, 79-84	2.6	34

173	Green synthesis of Au nanoparticles using potato extract: stability and growth mechanism. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	33
172	Effect of Different Additives on the Size Control and Emission Properties of Y ₂ O ₃ :Eu ³⁺ Nanoparticles Prepared through the Coprecipitation Method. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16652-16657	3.8	33
171	Effects of surface oxidation on the linear optical properties of Cu nanoparticles. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011 , 28, 2735	1.7	32
170	Formation of Au@Ag Core-Shell Nanostructures in Silica Matrix by Sequential Ion Implantation. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 2296-2300	3.8	32
169	Thermoluminescence properties of ZnO and ZnO:Yb nanophosphors. <i>Applied Physics Letters</i> , 2006 , 89, 183118	3.4	32
168	Synthesis and Growth Mechanism of One-Dimensional Zn/ZnO Core-Shell Nanostructures in Low-Temperature Hydrothermal Process. <i>Crystal Growth and Design</i> , 2009 , 9, 3024-3030	3.5	31
167	Platinum nanoparticle-assembled porous biogenic silica 3D hybrid structures with outstanding 4-nitrophenol degradation performance. <i>Chemical Engineering Journal</i> , 2020 , 388, 124237	14.7	31
166	Geometrical Tunability of Linear Optical Response of Silica@Gold Double Concentric Nanoshells. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 4414-4417	3.8	30
165	Synthesis and characterization of colloidal platinum nanoparticles for electrochemical applications. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 4215-4221	6.7	30
164	Synthesis and characterization of Au nanoparticles in Al ₂ O ₃ matrix. <i>International Journal of Hydrogen Energy</i> , 2003 , 28, 637-640	6.7	30
163	Solar-irradiation driven biodiesel production using Cr/SiO ₂ photocatalyst exploiting cooperative interaction between Cr ⁶⁺ and Cr ³⁺ moieties. <i>Applied Catalysis B: Environmental</i> , 2017 , 203, 43-52	21.8	29
162	Nonlinear optical properties of gold nanoparticles dispersed in different optically transparent matrices. <i>Physics of the Solid State</i> , 2009 , 51, 55-60	0.8	29
161	Synthesis and Photocatalytic Activity of Yb Doped TiO ₂ Nanoparticles under Visible Light. <i>Journal of Nano Research</i> , 2009 , 5, 193-200	1	29
160	Fabrication of Fe ₃ O ₄ @mSiO ₂ Core-Shell Composite Nanoparticles for Drug Delivery Applications. <i>Nanoscale Research Letters</i> , 2015 , 10, 217	5	27
159	Generalizing segregation and chemical ordering in bimetallic nanoclusters through atomistic view points. <i>Physical Review B</i> , 2009 , 80,	3.3	27
158	Effect of In, Sb and Ga doping on the structure and vibrational modes of hydrothermally grown ZnO nanostructures. <i>Current Applied Physics</i> , 2011 , 11, 525-531	2.6	27
157	Electrical characterization of stable air-oxidized CdSe films prepared by thermal evaporation. <i>Semiconductor Science and Technology</i> , 1996 , 11, 548-553	1.8	27
156	Au ⁰ @Au ³⁺ bifunctional site mediated enhanced catalytic activity of Au/ZnO composite in diesel particulate matter oxidation. <i>Journal of Catalysis</i> , 2017 , 347, 148-156	7.3	24

155	Mie calculation of electromagnetic near-field for a multilayered sphere. <i>Computer Physics Communications</i> , 2017 , 214, 225-230	4.2	24
154	Near-Electric-Field Tuned Plasmonic Au@SiO ₂ and Ag@SiO ₂ Nanoparticles for Efficient Utilization in Luminescence Enhancement and Surface-Enhanced Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 23062-23071	3.8	24
153	Structural basis for homogeneous CdS nanorods: synthesis and HREM characterization. <i>Applied Physics A: Materials Science and Processing</i> , 2004 , 78, 5-7	2.6	23
152	Enhanced magnetic properties and MRI performance of bi-magnetic core-shell nanoparticles. <i>RSC Advances</i> , 2016 , 6, 77558-77568	3.7	23
151	Enhanced biogas production from coffee pulp through deligninocellulosic photocatalytic pretreatment. <i>Energy Science and Engineering</i> , 2014 , 2, 177-187	3.4	22
150	Morphology evolution of hydrothermally grown ZnO nanostructures on gallium doping and their defect structures. <i>Materials Chemistry and Physics</i> , 2012 , 135, 810-817	4.4	22
149	Dose enhancing behavior of hydrothermally grown Eu-doped SnO ₂ nanoparticles. <i>Journal of Applied Physics</i> , 2013 , 113, 064306	2.5	22
148	Controlled synthesis of ZnO nanoparticles by bioreduction. <i>Materials Chemistry and Physics</i> , 2006 , 97, 321-329	4.4	22
147	Enhanced Plasmonic Behavior of Incomplete Nanoshells: Effect of Local Field Irregularities on the Far-Field Optical Response. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 22271-22275	3.8	21
146	Study of Interlayer Spacing Collapse During Polymer/Clay Nanocomposite Melt Intercalation. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 1707-1713	1.3	21
145	Graphite-incorporated MoS ₂ nanotubes: a new coaxial binary system. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 17488-95	3.4	21
144	Structure, stability and catalytic activity of chemically synthesized Pt, Au, and Au-Pt nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2005 , 5, 641-7	1.3	21
143	The structure and interaction mechanism of a polyelectrolyte complex: a dissipative particle dynamics study. <i>Soft Matter</i> , 2015 , 11, 5889-97	3.6	20
142	Non-Equilibrium Molecular Dynamics Simulation of Nanojet Injection with Adaptive-Spatial Decomposition Parallel Algorithm. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 3661-3673	1.3	20
141	Computational Nanomechanics and Thermal Transport in Nanotubes and Nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 3628-3651	1.3	20
140	S and Te inter-diffusion in CdTe/CdS hetero junction. <i>Solar Energy Materials and Solar Cells</i> , 2007 , 91, 1392-1397	6.4	20
139	The completion of the platonic atomic polyhedra: the dodecahedron. <i>Small</i> , 2006 , 2, 351-5	11	20
138	Effects of Plasmonic Nanoparticle Incorporation on Electrodynamics and Photovoltaic Performance of Dye Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 10129-10136	3.8	20

137	Elimination of Te precipitates from CdTe wafers. <i>Semiconductor Science and Technology</i> , 1995 , 10, 870-875	19
136	Hydrogen-reduced Cu/ZnO composite as efficient reusable catalyst for diesel particulate matter oxidation. <i>Applied Catalysis B: Environmental</i> , 2015 , 165, 555-565	21.8 18
135	Facile synthesis and magnetic phase transformation of NdFeB nanoclusters by oxygen bridging. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 275-281	7.1 18
134	Effect of thermal annealing on the optical properties of high-energy Cu-implanted silica glass. <i>Journal of Non-Crystalline Solids</i> , 2000 , 275, 65-71	3.9 18
133	Borohydride-Assisted Surface Activation of CoO/CoFeO Composite and Its Catalytic Activity for 4-Nitrophenol Reduction. <i>ACS Omega</i> , 2019 , 4, 10129-10139	3.9 17
132	Configuring Au and Ag nanorods for sensing applications. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011 , 28, 714	1.7 17
131	Seed-Mediated Growth of Ag@Au Nanodisks with Improved Chemical Stability and Surface-Enhanced Raman Scattering. <i>ACS Omega</i> , 2018 , 3, 12600-12608	3.9 17
130	Emission controlled dual emitting Eu-doped CaMgSi ₂ O ₆ nanophosphors. <i>Journal of Luminescence</i> , 2015 , 157, 131-136	3.8 16
129	Cross-Sectional STEM Observation of Nanoparticle-Attached Silicon Wafer: Specimen Prepared by Focused Ion-Beam. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 1518-1522	1.3 16
128	Synthesis of gold nanoparticles with different atomistic structural characteristics. <i>Materials Characterization</i> , 2007 , 58, 694-700	3.9 16
127	Study of point defects in CdTe and CdTe:V by cathodoluminescence. <i>Journal of Applied Physics</i> , 1994 , 76, 3720-3723	2.5 16
126	CL study of yellow emission in ZnO nanostructures annealed in Ar and O ₂ atmospheres. <i>Superlattices and Microstructures</i> , 2009 , 45, 421-428	2.8 15
125	Photoluminescence in Si/ZnO nanocomposites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2004 , 113, 24-29	3.1 15
124	Influence of morphology on the performance of ZnO-based dye-sensitized solar cells. <i>RSC Advances</i> , 2016 , 6, 37424-37433	3.7 15
123	Preparation of Ge/ZnO nanocomposites by radio frequency alternate sputtering. <i>Solar Energy Materials and Solar Cells</i> , 2003 , 76, 305-312	6.4 14
122	Raman and infrared spectroscopy of Ge nanoparticles embedded in ZnO matrix. <i>Applied Surface Science</i> , 2005 , 246, 23-29	6.7 14
121	Gram-scale synthesis of highly crystalline, 0-D and 1-D SnO ₂ nanostructures through surfactant-free hydrothermal process. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3 13
120	Optimizing the electric field around solid and core-shell alloy nanostructures for near-field applications. <i>Nanoscale</i> , 2016 , 8, 14836-45	7.7 13

119	Tuning magnetic and structural properties of MnFe ₂ O ₄ nanostructures by systematic introduction of transition metal ions M ²⁺ (M = Zn, Fe, Ni, Co). <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 490, 165496	2.8	12
118	Effect of Ag, Cu, and Au Incorporation on the Diesel Soot Oxidation Behavior of SiO ₂ : Role of Metallic Ag. <i>Topics in Catalysis</i> , 2013 , 56, 467-472	2.3	12
117	Preparation of Au/ZnO nanocomposites by radio frequency co-sputtering. <i>Solar Energy Materials and Solar Cells</i> , 2001 , 70, 363-368	6.4	12
116	Morphology control and optical properties of ZnO nanostructures grown by ultrasonic synthesis. <i>Advances in Nano Research</i> , 2013 , 1, 59-70		12
115	Morphology and defect evolution in vapor-grown In ₂ O ₃ :Sn micro-/nanoparticles. <i>Materials Science in Semiconductor Processing</i> , 2015 , 40, 943-953	4.3	11
114	Photocharging and Band Gap Narrowing Effects on the Performance of Plasmonic Photoelectrodes in Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 31374-31383	9.5	11
113	Unusual variation of blocking temperature in bi-magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 441, 417-423	2.8	11
112	Synthesis of multifunctional metal- and metal oxide core@mesoporous silica shell structures by using a wet chemical approach. <i>Chemistry - A European Journal</i> , 2012 , 18, 12314-21	4.8	11
111	Thermal diffusivity of nanofluids containing Au/Pd bimetallic nanoparticles of different compositions. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 685-90	1.3	11
110	Synthesis of novel ionic polymers containing arsonic acid group. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006 , 44, 1627-1634	2.6	11
109	Enhancement of Peroxidase Stability Against Oxidative Self-Inactivation by Co-immobilization with a Redox-Active Protein in Mesoporous Silicon and Silica Microparticles. <i>Nanoscale Research Letters</i> , 2016 , 11, 417	5	11
108	Phase controlled synthesis of CuSbS ₂ nanostructures: Effect of reaction conditions on phase purity and morphology. <i>Materials and Design</i> , 2017 , 136, 165-173	8.1	10
107	Tunable White-Light Emission of Co ²⁺ and Mn ²⁺ Co-Doped ZnS Nanoparticles by Energy Transfer between Dopant Ions. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 3857-3866	3.8	10
106	Effects of Oxidizing/Reducing Agent Ratio on Phase Purity, Crystallinity, and Magnetic Behavior of Solution-Combustion-Grown BiFeO Submicroparticles. <i>Inorganic Chemistry</i> , 2018 , 57, 6152-6160	5.1	10
105	Effect of laser annealing on the distribution of defect levels in CdSe films. <i>Thin Solid Films</i> , 2001 , 381, 155-159	2.2	10
104	Passivation of surface and bulk defects in p -GaSb by hydrogenated amorphous silicon treatment. <i>Journal of Applied Physics</i> , 1996 , 79, 3246-3252	2.5	10
103	Structural characterization of thin films of cadmium telluride. <i>Thin Solid Films</i> , 1988 , 164, 85-89	2.2	10
102	Estimating Near Electric Field of Polyhedral Gold Nanoparticles for Plasmon-Enhanced Spectroscopies. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 11833-11839	3.8	9

101	Cell viability and MRI performance of highly efficient polyol-coated magnetic nanoparticles. <i>Journal of Nanoparticle Research</i> , 2016 , 18, 1	2.3	9
100	Crystallization induced porosity control and photocatalytic activity of ordered mesoporous TiO ₂ . <i>RSC Advances</i> , 2012 , 2, 11969	3.7	9
99	Synthesis of Vertical ZnO Nanorods on Glass Substrates by Simple Chemical Method. <i>Journal of Nano Research</i> , 2009 , 5, 223-230	1	9
98	Study of defects in CdTe: Cl by cathodoluminescence microscopy. <i>Materials Letters</i> , 1995 , 23, 227-230	3.3	9
97	Near band gap photoreflectance studies in CdTe, CdTe:V and cdte:ge crystals. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1996 , 42, 297-301	3.1	9
96	Dark- and photoconductivity in doped and undoped zinc telluride films. <i>Semiconductor Science and Technology</i> , 1993 , 8, 1331-1336	1.8	9
95	Synthesis of Monodispersed Red Emitting LiAl ₅ O ₈ :Fe ³⁺ Nanophosphors. <i>Science of Advanced Materials</i> , 2012 , 4, 597-603	2.3	9
94	Total Oxidation of Methane over Pt/Cr ₂ O ₃ Catalyst at Low Temperature: Effect of PtO ₂ and Dipoles at the Metal/Support Interface. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 2882-2893	3.8	9
93	Large magnetostriction in chemically fabricated CoFe ₂ O ₄ nanoparticles and its temperature dependence. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 460, 141-145	2.8	8
92	Structure and magnetic properties of the Co _{1-x} Ni _x Fe ₂ O ₄ -BaTiO ₃ core-shell nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 442, 247-254	2.8	8
91	Kinetics of decolorization of spironaphthooxazine-doped photochromic polymer films. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 12923-7	3.4	8
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