

Masoud Salavati-Niasari

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ext. papers

14,197
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
301	Facile fabrication of silver iodide/graphitic carbon nitride nanocomposites by notable photo-catalytic performance through sunlight and antimicrobial activity. <i>Journal of Hazardous Materials</i> , 2020 , 389, 122079	12.8	184
300	Fabrication and characterization of Fe ₃ O ₄ @SiO ₂ @TiO ₂ @Ho nanostructures as a novel and highly efficient photocatalyst for degradation of organic pollution. <i>Journal of Energy Chemistry</i> , 2017 , 26, 17-23 ¹²		174
299	Grafting of CuFe ₂ O ₄ nanoparticles on CNT and graphene: Eco-friendly synthesis, characterization and photocatalytic activity. <i>Journal of Cleaner Production</i> , 2018 , 176, 1185-1197	10.3	168
298	Eco-friendly synthesis of Nd ₂ Sn ₂ O ₇ based nanostructure materials using grape juice as green fuel as photocatalyst for the degradation of erythrosine. <i>Composites Part B: Engineering</i> , 2019 , 167, 643-653	10	154
297	A sonochemical method for synthesis of Fe ₃ O ₄ nanoparticles and thermal stable PVA-based magnetic nanocomposite. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 3970-3974	6.3	150
296	Simple sol-gel synthesis and characterization of new CoTiO/CoFeO nanocomposite by using liquid glucose, maltose and starch as fuel, capping and reducing agents. <i>Journal of Colloid and Interface Science</i> , 2018 , 514, 723-732	9.3	149
295	Microwave-assisted synthesis and photovoltaic measurements of CuInS ₂ nanoparticles prepared by using metal-organic precursors. <i>Materials Research Bulletin</i> , 2012 , 47, 3148-3159	5.1	146
294	Recyclable magnetic superhydrophobic straw soot sponge for highly efficient oil/water separation. <i>Journal of Colloid and Interface Science</i> , 2017 , 497, 57-65	9.3	144
293	Hydrothermal green synthesis of magnetic FeO-carbon dots by lemon and grape fruit extracts and as a photoluminescence sensor for detecting of E. coli bacteria. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 203, 481-493	4.4	143
292	Green synthesis of dysprosium stannate nanoparticles using Ficus carica extract as photocatalyst for the degradation of organic pollutants under visible irradiation. <i>Ceramics International</i> , 2020 , 46, 6095-6107 ^{5.1}	5.1	142
291	Novel synthesis of Zn ₂ GeO ₄ /graphene nanocomposite for enhanced electrochemical hydrogen storage performance. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 17184-17191	6.7	141
290	TlCdI Nanostructures: Facile Sonochemical Synthesis and Photocatalytic Activity for Removal of Organic Dyes. <i>Inorganic Chemistry</i> , 2018 , 57, 11443-11455	5.1	141
289	Self-assembly of hydrogen storage materials based multi-walled carbon nanotubes (MWCNTs) and Dy ₃ Fe ₅ O ₁₂ (DFO) nanoparticles. <i>Journal of Alloys and Compounds</i> , 2018 , 745, 789-797	5.7	139
288	Nd ₂ Zr ₂ O ₇ -Nd ₂ O ₃ nanocomposites: New facile synthesis, characterization and investigation of photocatalytic behaviour. <i>Materials Letters</i> , 2016 , 180, 27-30	3.3	137
287	Silver chromate and silver dichromate nanostructures: Sonochemical synthesis, characterization, and photocatalytic properties. <i>Materials Research Bulletin</i> , 2013 , 48, 2084-2094	5.1	133
286	Long chain polymer assisted synthesis of flower-like cadmium sulfide nanorods via hydrothermal process. <i>Journal of Alloys and Compounds</i> , 2009 , 481, 776-780	5.7	133
285	Nanoscale microreactor-encapsulation 14-membered nickel(II) hexamethyl tetraaza: synthesis, characterization and catalytic activity. <i>Journal of Molecular Catalysis A</i> , 2005 , 229, 159-164		133

284	A simple sonochemical approach for synthesis and characterization of Zn ₂ SiO ₄ nanostructures. <i>Ultrasonics Sonochemistry</i> , 2016 , 29, 226-35	8.9	131
283	Freeze-drying synthesis, characterization and in vitro bioactivity of chitosan/graphene oxide/hydroxyapatite nanocomposite. <i>RSC Advances</i> , 2014 , 4, 25993	3.7	130
282	Nanodimensional Microreactor-encapsulation of 18-Membered Decaaza Macrocycle Copper(II) Complexes. <i>Chemistry Letters</i> , 2005 , 34, 244-245	1.7	130
281	Modified single-phase hematite nanoparticles via a facile approach for large-scale synthesis. <i>Chemical Engineering Journal</i> , 2011 , 170, 278-285	14.7	126
280	Green synthesis of magnetic chitosan nanocomposites by a new sol-gel auto-combustion method. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 410, 27-33	2.8	124
279	ZnO nanotriangles: Synthesis, characterization and optical properties. <i>Journal of Alloys and Compounds</i> , 2009 , 476, 908-912	5.7	123
278	Star-shaped PbS nanocrystals prepared by hydrothermal process in the presence of thioglycolic acid. <i>Polyhedron</i> , 2012 , 35, 149-153	2.7	122
277	Nanoscale microreactor-encapsulation of 18-membered decaaza macrocycle nickel(II) complexes. <i>Inorganic Chemistry Communication</i> , 2005 , 8, 174-177	3.1	119
276	Synthesis of star-shaped PbS nanocrystals using single-source precursor. <i>Journal of Alloys and Compounds</i> , 2010 , 507, 77-83	5.7	118
275	Photoluminescence carbon dot as a sensor for detecting of <i>Pseudomonas aeruginosa</i> bacteria: Hydrothermal synthesis of magnetic hollow NiFe ₂ O ₄ -carbon dots nanocomposite material. <i>Composites Part B: Engineering</i> , 2019 , 161, 564-577	10	117
274	Simple sonochemical synthesis and characterization of HgSe nanoparticles. <i>Ultrasonics Sonochemistry</i> , 2012 , 19, 1079-86	8.9	111
273	Synthesis and characterization of spherical silica nanoparticles by modified Stober process assisted by organic ligand. <i>Superlattices and Microstructures</i> , 2013 , 61, 33-41	2.8	111
272	Synthesis and Characterization of Host (Nanodimensional Pores of Zeolite-Y) Guest [Unsaturated 16-Membered Octaaza macrocycle Manganese(II), Cobalt(II), Nickel(II), Copper(II), and Zinc(II) Complexes] Nanocomposite Materials. <i>Chemistry Letters</i> , 2005 , 34, 1444-1445	1.7	110
271	Synthesis and characterization of NiO nanoclusters via thermal decomposition. <i>Polyhedron</i> , 2009 , 28, 1111-1114	2.7	108
270	Green synthesis using cherry and orange juice and characterization of TbFeO ₃ ceramic nanostructures and their application as photocatalysts under UV light for removal of organic dyes in water. <i>Journal of Cleaner Production</i> , 2020 , 252, 119765	10.3	108
269	Investigation of the electrochemical hydrogen storage and photocatalytic properties of CoAl ₂ O ₄ pigment: Green synthesis and characterization. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 9418-9426	6.7	108
268	Nd ₂ Sn ₂ O ₇ nanostructures: Green synthesis and characterization using date palm extract, a potential electrochemical hydrogen storage material. <i>Ceramics International</i> , 2020 , 46, 17186-17196	5.1	101
267	NdO-SiO nanocomposites: A simple sonochemical preparation, characterization and photocatalytic activity. <i>Ultrasonics Sonochemistry</i> , 2018 , 42, 171-182	8.9	99

266	Gd ₂ ZnMnO ₆ /ZnO nanocomposites: Green sol-gel auto-combustion synthesis, characterization and photocatalytic degradation of different dye pollutants in water. <i>Journal of Alloys and Compounds</i> , 2020 , 835, 155240	5.7	95
265	Preparation of PbO nanocrystals via decomposition of lead oxalate. <i>Polyhedron</i> , 2009 , 28, 2263-2267	2.7	95
264	Caffeine: A novel green precursor for synthesis of magnetic CoFeO nanoparticles and pH-sensitive magnetic alginate beads for drug delivery. <i>Materials Science and Engineering C</i> , 2017 , 76, 1085-1093	8.3	92
263	Electrochemical hydrogen storage capacity and optical properties of NiAl ₂ O ₄ /NiO nanocomposite synthesized by green method. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 5235-5245	6.7	91
262	Synthesis and adsorption studies of NiO nanoparticles in the presence of H ₂ acacen ligand, for removing Rhodamine B in wastewater treatment. <i>Chemical Engineering Research and Design</i> , 2015 , 93, 282-292	5.5	90
261	Enhanced photodegradation of dye in waste water using iron vanadate nanocomposite; ultrasound-assisted preparation and characterization. <i>Ultrasonics Sonochemistry</i> , 2017 , 39, 494-503	8.9	88
260	Degradation of methylene blue and Rhodamine B as water pollutants via green synthesized Co ₃ O ₄ /ZnO nanocomposite. <i>Journal of Molecular Liquids</i> , 2017 , 229, 293-299	6	85
259	The inhibition of mild steel corrosion in hydrochloric acid media by two Schiff base compounds. <i>Journal of Materials Science</i> , 2009 , 44, 2444-2453	4.3	82
258	Enhanced visible-light-driven photocatalytic performance for degradation of organic contaminants using PbWO nanostructure fabricated by a new, simple and green sonochemical approach. <i>Ultrasonics Sonochemistry</i> , 2021 , 72, 105420	8.9	82
257	Electro-spinning of cellulose acetate nanofibers/Fe/carbon dot as photoluminescence sensor for mercury (II) and lead (II) ions. <i>Carbohydrate Polymers</i> , 2020 , 229, 115428	10.3	82
256	Size controllable synthesis of cobalt vanadate nanostructures with enhanced photocatalytic activity for the degradation of organic dyes. <i>Journal of Molecular Catalysis A</i> , 2016 , 425, 31-42		79
255	Application of ultrasound-aided method for the synthesis of NdVO nano-photocatalyst and investigation of eliminate dye in contaminant water. <i>Ultrasonics Sonochemistry</i> , 2018 , 42, 201-211	8.9	79
254	Facile precipitation synthesis and electrochemical evaluation of Zn ₂ SnO ₄ nanostructure as a hydrogen storage material. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 12420-12429	6.7	77
253	PbTiO ₃ /PbFe ₁₂ O ₁₉ nanocomposites: Green synthesis through an eco-friendly approach. <i>Composites Part B: Engineering</i> , 2016 , 85, 170-175	10	76
252	Facile synthesis, characterization and magnetic property of CuFe ₁₂ O ₁₉ nanostructures via a sol-gel auto-combustion process. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 401, 362-369	2.8	76
251	In vitro comparative study of pure hydroxyapatite nanorods and novel polyethylene glycol/graphene oxide/hydroxyapatite nanocomposite. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	76
250	Facile microwave synthesis, characterization, and solar cell application of selenium nanoparticles. <i>Journal of Alloys and Compounds</i> , 2014 , 617, 627-632	5.7	73
249	Control sonochemical parameter to prepare pure ZnFeO nanostructures and study their photocatalytic activity. <i>Ultrasonics Sonochemistry</i> , 2019 , 58, 104619	8.9	71

248	Simple fabrication of Pr ₂ Ce ₂ O ₇ nanostructures via a new and eco-friendly route; a potential electrochemical hydrogen storage material. <i>Journal of Alloys and Compounds</i> , 2019 , 791, 792-799	5.7	70
247	Facile synthesis, characterization and optical properties of copper vanadate nanostructures for enhanced photocatalytic activity. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 4871-4878	2.1	70
246	Novel Schiff base ligand-assisted in-situ synthesis of Cu ₃ V ₂ O ₈ nanoparticles via a simple precipitation approach. <i>Journal of Molecular Liquids</i> , 2016 , 216, 59-66	6	69
245	Simple synthesis-controlled fabrication of thallium cadmium iodide nanostructures via a novel route and photocatalytic investigation in degradation of toxic dyes. <i>Inorganica Chimica Acta</i> , 2017 , 455, 88-97	2.7	68
244	Fabrication of nanocomposite photocatalyst CuBiO/BiClO for removal of acid brown 14 as water pollutant under visible light irradiation. <i>Journal of Hazardous Materials</i> , 2019 , 361, 210-220	12.8	68
243	Effect of Li ₂ CoMn ₃ O ₈ Nanostructures Synthesized by a Combustion Method on Montmorillonite K10 as a Potential Hydrogen Storage Material. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 16498-16509	3.8	68
242	Preparation, characterization and photocatalytic properties of Ag ₂ ZnI ₄ /AgI nanocomposites via a new simple hydrothermal approach. <i>Journal of Molecular Liquids</i> , 2017 , 225, 645-651	6	66
241	Sol-gel auto-combustion synthesis of PbFe ₁₂ O ₁₉ using maltose as a novel reductant. <i>RSC Advances</i> , 2014 , 4, 63946-63950	3.7	66
240	Photo-degradation of organic dyes: simple chemical synthesis of Ni(OH) ₂ nanoparticles, Ni/Ni(OH) ₂ and Ni/NiO magnetic nanocomposites. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 1244-1253	2.1	65
239	NiTiO ₃ /NiFe ₂ O ₄ nanocomposites: Simple sol-gel auto-combustion synthesis and characterization by utilizing onion extract as a novel fuel and green capping agent. <i>Materials Science in Semiconductor Processing</i> , 2016 , 43, 34-40	4.3	65
238	Hydroxyapatite nanocrystals: simple preparation, characterization and formation mechanism. <i>Materials Science and Engineering C</i> , 2014 , 45, 29-36	8.3	65
237	Dy ₂ BaCuO ₅ /Ba ₄ DyCu ₃ O _{9.09} S-scheme heterojunction nanocomposite with enhanced photocatalytic and antibacterial activities. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 2952-2965	3.8	65
236	Design of Magnetically Recyclable Ternary Fe ₂ O ₃ /EuVO ₄ /g-C ₃ N ₄ Nanocomposites for Photocatalytic and Electrochemical Hydrogen Storage. <i>ACS Applied Energy Materials</i> , 2021 , 4, 680-695	6.1	65
235	Effects of copper:aluminum ratio in CuO/Al ₂ O ₃ nanocomposite: Electrochemical hydrogen storage capacity, band gap and morphology. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 15141-15148	6.7	64
234	Synthesis, characterization and application of Co/Co ₃ O ₄ nanocomposites as an effective photocatalyst for discoloration of organic dye contaminants in wastewater and antibacterial properties. <i>Journal of Molecular Liquids</i> , 2021 , 337, 116405	6	64
233	Magnetically retrievable ferrite nanoparticles in the catalysis application. <i>Advances in Colloid and Interface Science</i> , 2019 , 271, 101982	14.3	63
232	Synthesis, characterization and degradation of organic dye over Co ₃ O ₄ nanoparticles prepared from new binuclear complex precursors. <i>RSC Advances</i> , 2014 , 4, 46517-46520	3.7	61
231	Synthesis and characterization of FeSe ₂ nanoparticles and FeSe ₂ /FeO(OH) nanocomposites by hydrothermal method. <i>Journal of Alloys and Compounds</i> , 2015 , 625, 26-33	5.7	60

230	Simple morphology-controlled fabrication of nickel chromite nanostructures via a novel route. <i>Chemical Engineering Journal</i> , 2015 , 279, 605-614	14.7	60
229	Amino acid assisted-synthesis and characterization of magnetically retrievable ZnCo ₂ O ₄ /TiO ₂ nanostructures as high activity visible-light-driven photocatalyst. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 22761-22774	6.7	60
228	Utilizing maleic acid as a novel fuel for synthesis of PbFe ₁₂ O ₁₉ nanoceramics via sol-gel auto-combustion route. <i>Materials Characterization</i> , 2015 , 103, 11-17	3.9	59
227	Green sonochemical synthesis of BaDyNiO/DyO and BaDyNiO/NiO nanocomposites in the presence of core almond as a capping agent and their application as photocatalysts for the removal of organic dyes in water.. <i>RSC Advances</i> , 2021 , 11, 11500-11512	3.7	59
226	Synthesis and characterization of a nickel selenide series via a hydrothermal process. <i>Superlattices and Microstructures</i> , 2014 , 65, 79-90	2.8	57
225	Synthesis, characterization and investigation of the electrochemical hydrogen storage properties of CuO/TiO ₂ nanocomposites synthesized by green method. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 14608-14620	6.7	57
224	Sonochemical synthesis of Dy ₂ (CO ₃) ₃ nanoparticles, Dy(OH) ₃ nanotubes and their conversion to Dy ₂ O ₃ nanoparticles. <i>Ultrasonics Sonochemistry</i> , 2010 , 17, 870-7	8.9	56
223	Synthesis and characterization of hexagonal nano-sized nickel selenide by simple hydrothermal method assisted by CTAB. <i>Applied Surface Science</i> , 2011 , 257, 7982-7987	6.7	53
222	Enhancement of magnetic, electrochemical and photocatalytic properties of lead hexaferrites with coating graphene and CNT: Sol-gel auto-combustion synthesis by valine. <i>Separation and Purification Technology</i> , 2017 , 185, 140-148	8.3	52
221	Physicochemical Interface Engineering of CuI/Cu as Advanced Potential Hole-Transporting Materials/Metal Contact Couples in Hysteresis-Free Ultralow-Cost and Large-Area Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 21935-21944	3.8	52
220	Sonochemical synthesis, characterization and application of PrVO nanostructures as an effective photocatalyst for discoloration of organic dye contaminants in wastewater. <i>Ultrasonics Sonochemistry</i> , 2020 , 61, 104822	8.9	51
219	Particle size and shape modification of hydroxyapatite nanostructures synthesized via a complexing agent-assisted route. <i>Materials Science and Engineering C</i> , 2014 , 40, 288-98	8.3	50
218	Shape control of nickel selenides synthesized by a simple hydrothermal reduction process. <i>Polyhedron</i> , 2012 , 31, 210-216	2.7	50
217	Passivation Mechanism Exploiting Surface Dipoles Affords High-Performance Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2020 , 142, 11428-11433	16.4	48
216	Lead hexaferrite nanostructures: green amino acid sol-gel auto-combustion synthesis, characterization and considering magnetic property. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 17627-17634	2.1	48
215	Simple approach for the synthesis of Dy ₂ Sn ₂ O ₇ nanostructures as a hydrogen storage material from banana juice. <i>Journal of Cleaner Production</i> , 2019 , 222, 103-110	10.3	47
214	Photodegradation and removal of organic dyes using cui nanostructures, green synthesis and characterization. <i>Separation and Purification Technology</i> , 2017 , 173, 27-36	8.3	47
213	Utilizing of neodymium vanadate nanoparticles as an efficient catalyst to boost the photocatalytic water purification. <i>Journal of Environmental Management</i> , 2019 , 230, 266-281	7.9	47

212	Synthesis and Characterization of Al(OH) ₃ , Al ₂ O ₃ Nanoparticles and Polymeric Nanocomposites. <i>Journal of Cluster Science</i> , 2016 , 27, 25-38	3	45
211	Effect of nickel salt precursors on morphology, size, optical property and type of products (NiSe or Se) in hydrothermal method. <i>Optical Materials</i> , 2013 , 35, 904-909	3.3	44
210	Simple and eco-friendly synthesis of recoverable zinc cobalt oxide-based ceramic nanostructure as high-performance photocatalyst for enhanced photocatalytic removal of organic contamination under solar light. <i>Separation and Purification Technology</i> , 2021 , 267, 118667	8.3	41
209	Enhanced antibacterial activity and photocatalytic degradation of organic dyes under visible light using cesium lead iodide perovskite nanostructures prepared by hydrothermal method. <i>Separation and Purification Technology</i> , 2020 , 253, 117526	8.3	39
208	Simple synthesis and characterization of Ag ₂ Cd ₄ /AgI nanocomposite as an effective photocatalyst by co-precipitation method. <i>Journal of Molecular Liquids</i> , 2016 , 223, 21-28	6	38
207	Synthesis and Characterization of Bis(Macrocylic) Nickel(II) Complexes Containing Aromatic Nitrogen-Nitrogen Linkers Produced by Template Condensation. <i>Transition Metal Chemistry</i> , 2006 , 31, 157-162	2.1	38
206	Zinc oxide nanoparticles: solvent-free synthesis, characterization and application as heterogeneous nanocatalyst for photodegradation of dye from aqueous phase. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 8423-8428	2.1	37
205	Sol-Gel auto-combustion synthesis and physicochemical properties of BaAl ₂ O ₄ nanoparticles; electrochemical hydrogen storage performance and density functional theory. <i>Renewable Energy</i> , 2017 , 114, 1419-1426	8.1	37
204	Green synthesis and characterization of cerium oxide nanostructures in the presence carbohydrate sugars as a capping agent and investigation of their cytotoxicity on the mesenchymal stem cell. <i>Journal of Cleaner Production</i> , 2017 , 156, 741-749	10.3	36
203	Synthesis, characterization, optical and magnetic properties of a nickel sulfide series by three different methods. <i>Superlattices and Microstructures</i> , 2013 , 59, 1-12	2.8	35
202	Thermal decomposition synthesis, characterization and electrochemical hydrogen storage characteristics of Co ₃ O ₄ @CeO ₂ porous nanocomposite. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 20071-20081	6.7	35
201	Photocatalytic degradation of methylene blue on TiO ₂ @SiO ₂ core/shell nanoparticles: synthesis and characterization. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 6170-6177	2.1	35
200	Morphological control of MnSe ₂ /Se nanocomposites by amount of hydrazine through a hydrothermal process. <i>Materials Research Bulletin</i> , 2013 , 48, 3204-3210	5.1	35
199	Green synthesis of flower-like CuI microstructures composed of trigonal nanostructures using pomegranate juice. <i>Materials Letters</i> , 2013 , 100, 133-136	3.3	35
198	Sonochemical synthesis of SrMnO nanoparticles as an efficient and new catalyst for O evolution from water splitting reaction. <i>Ultrasonics Sonochemistry</i> , 2018 , 40, 651-663	8.9	35
197	Dy ₃ Fe ₅ O ₁₂ and DyFeO ₃ nanostructures: Green and facial auto-combustion synthesis, characterization and comparative study on electrochemical hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 9713-9721	6.7	34
196	Synthesis and characterization of CdSe nanostructures by using a new selenium source: Effect of hydrothermal preparation conditions. <i>Materials Research Bulletin</i> , 2014 , 53, 7-14	5.1	34
195	Hydrothermal synthesis, characterization, and magnetic properties of cubic MnSe ₂ /Se nanocomposites material. <i>Journal of Alloys and Compounds</i> , 2014 , 617, 93-101	5.7	34

- 194 A new simple route for the preparation of nanosized copper selenides under different conditions. *Ceramics International*, **2014**, 40, 8173-8182 5.1 34
- 193 Green facile thermal decomposition synthesis, characterization and electrochemical hydrogen storage characteristics of ZnAl₂O₄ nanostructure. *International Journal of Hydrogen Energy*, **2017**, 42, 17167-17177 6.7 34
- 192 Photo-catalyst tin dioxide: synthesis and characterization different morphologies of SnO₂ nanostructures and nanocomposites. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 6970-6978 2.1 34
- 191 Effect of copper phthalocyanine (CuPc) on electrochemical hydrogen storage capacity of BaAl₂O₄/BaCO₃ nanoparticles. *International Journal of Hydrogen Energy*, **2017**, 42, 15308-15318 6.7 33
- 190 Copper iodide decorated graphitic carbon nitride sheets with enhanced visible-light response for photocatalytic organic pollutant removal and antibacterial activities. *Ecotoxicology and Environmental Safety*, **2021**, 208, 111712 7 33
- 189 Effect of preparation conditions on synthesis of Ag₂Se nanoparticles by simple sonochemical method assisted by thiourea. *Journal of Industrial and Engineering Chemistry*, **2014**, 20, 3775-3779 6.3 32
- 188 New Nanocomposites Based on LiFeMn Double Spinel and Carbon Self-Doped Graphitic Carbon Nitrides with Synergistic Effect for Electrochemical Hydrogen Storage Application. *Industrial & Engineering Chemistry Research*, **2019**, 58, 23057-23067 3.9 32
- 187 Sodium dodecyl benzene sulfonate-assisted synthesis through a hydrothermal reaction. *Materials Research Bulletin*, **2012**, 47, 1905-1911 5.1 31
- 186 Two facile methods to produce the cobalt manganite nanostructures and evaluation of their photocatalytic performance. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 6292-6300 2.1 30
- 185 Novel precursors for synthesis of dendrite-like PbTe nanostructures and investigation of photoluminescence behavior. *Advanced Powder Technology*, **2014**, 25, 1585-1592 4.6 30
- 184 Structural characterization and electrochemical hydrogen sorption performances of the polycrystalline Ba₂Co₉O₁₄ nanostructures. *Journal of Alloys and Compounds*, **2019**, 777, 252-258 5.7 30
- 183 Ultrasonic assisted synthesis of a nano-sized Co₂SnO₄/graphene: A potential material for electrochemical hydrogen storage application. *International Journal of Hydrogen Energy*, **2018**, 43, 4381-4392 6.7 29
- 182 Synthesis and characterisation of cadmium selenide nanostructures by simple sonochemical method. *Micro and Nano Letters*, **2012**, 7, 831 0.9 29
- 181 Strategic design and electrochemical behaviors of Li-ion battery cathode nanocomposite materials based on AlV₃O₉ with carbon nanostructures. *Composites Part B: Engineering*, **2020**, 183, 107734 10 29
- 180 Novel and solvent-free cochineal-assisted synthesis of AgAl₂O₃ nanocomposites via solid-state thermal decomposition route: characterization and photocatalytic activity assessment. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 9789-9797 2.1 29
- 179 Transition metal selenides and diselenides: Hydrothermal fabrication, investigation of morphology, particle size and and their applications in photocatalyst. *Advances in Colloid and Interface Science*, **2021**, 287, 102321 14.3 29
- 178 Efficient degradation of azo dye pollutants on ZnBi₃8O₅₈ nanostructures under visible-light irradiation. *Separation and Purification Technology*, **2018**, 195, 30-36 8.3 29
- 177 Cubic HgSe nanoparticles: sonochemical synthesis and characterisation. *Micro and Nano Letters*, **2012**, 7, 1300-1304 0.9 28

176	Template Syntheses Involving the Carbon Acid Nitroethane. Synthesis and Characterization of Copper(II) Complexes of a 16-membered Tetraaza Macrocycle. <i>Transition Metal Chemistry</i> , 2005 , 30, 720-725	2.1	28
175	Green synthesis and characterization of RGO/Cu nanocomposites as photocatalytic degradation of organic pollutants in waste-water. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 20534-20546	6.7	28
174	Pechini sol-gel synthesis of Cu ₂ O/Li ₃ BO ₃ and CuO/Li ₃ BO ₃ nanocomposites for visible light-driven photocatalytic degradation of dye pollutant. <i>Journal of Alloys and Compounds</i> , 2020 , 815, 152451	5.7	28
173	BaMnO nanostructures: Simple ultrasonic fabrication and novel catalytic agent toward oxygen evolution of water splitting reaction. <i>Ultrasonics Sonochemistry</i> , 2020 , 61, 104829	8.9	28
172	Urchin-like Dy ₂ CoMnO ₆ double perovskite nanostructures: new simple fabrication and investigation of their photocatalytic properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 12440-12447	2.1	27
171	Investigation of Mn ₂ O ₃ as impurity on the electrochemical hydrogen storage performance of MnO ₂ CeO ₂ nanocomposites. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 28473-28484	6.7	27
170	Bis(macrocylic)dinickel(II) complexes containing phenylene bridges between 13-membered triaza dioxo macrocyclic ligands: in-situ one pot template synthesis, characterization and catalytic oxidation of cyclohexene. <i>Transition Metal Chemistry</i> , 2007 , 32, 9-15	2.1	27
169	Porous hollow Ag/AgS/AgPO nanocomposites as highly efficient heterojunction photocatalysts for the removal of antibiotics under simulated sunlight irradiation. <i>Chemosphere</i> , 2021 , 274, 129765	8.4	27
168	Synthesis, characterization and antibacterial activities of Ni/ZnO nanocomposites using bis(salicylaldehyde) complex precursor. <i>Journal of Alloys and Compounds</i> , 2019 , 788, 383-390	5.7	27
167	Sol-gel synthesis of novel Li-based boron oxides nanocomposite for photodegradation of azo-dye pollutant under UV light irradiation. <i>Composites Part B: Engineering</i> , 2019 , 172, 33-40	10	26
166	Ag ₂ CdI ₄ : Synthesis, characterization and investigation the strain lattice and grain size. <i>Journal of Alloys and Compounds</i> , 2016 , 667, 115-122	5.7	26
165	Single-Source Molecular Precursor for Synthesis of Copper Sulfide Nanostructures. <i>Journal of Cluster Science</i> , 2012 , 23, 1143-1151	3	26
164	Controllable synthesis of new Ti ₂ S ₂ O ₃ nanostructures via hydrothermal process; characterization and investigation photocatalytic activity for degradation of some anionic dyes. <i>Journal of Molecular Liquids</i> , 2016 , 219, 851-857	6	26
163	Influence of morphology on the in vitro bioactivity of hydroxyapatite nanostructures prepared by precipitation method. <i>New Journal of Chemistry</i> , 2014 , 38, 4501	3.6	25
162	Morphology-controlled synthesis, characterization and photocatalytic property of hierarchical flower-like Dy ₂ Mo ₃ O ₉ nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 10313-10320	2.1	24
161	Sonochemical synthesis of HgSe nanoparticles: Effect of metal salt, reaction time and reductant agent. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 3518-3523	6.3	24
160	Highly Selective Ratiometric Fluorescent Sensor for La(III) Ion Based on a New Schiff's Base. <i>Analytical Letters</i> , 2009 , 42, 1029-1040	2.2	24
159	Using pomegranate peel powders as a new capping agent for synthesis of CuO/ZnO/Al ₂ O ₃ nanostructures; enhancement of visible light photocatalytic activity. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 14406-14416	6.7	24

158	Controlled green synthesis and characterization of CeO ₂ nanostructures as materials for the determination of ascorbic acid. <i>Journal of Molecular Liquids</i> , 2017 , 241, 772-781	6	23
157	Copper(II) complexes with 18-membered decaaza macrocycles: synthesis, characterization and catalytic activity. <i>Transition Metal Chemistry</i> , 2005 , 30, 445-450	2.1	23
156	Synthesis and characterization of ceria nanostructures with different morphologies via a simple thermal decompose method with different cerium complexes and investigation the photocatalytic activity. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 8793-8801	2.1	22
155	Dy ₂ O ₃ /CuO nanocomposites: microwave assisted synthesis and investigated photocatalytic properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 1238-1245	2.1	21
154	Hydrothermal architecture of CuVO nanostructures as new electro-sensing catalysts for voltammetric quantification of mefenamic acid in pharmaceuticals and biological samples. <i>Biosensors and Bioelectronics</i> , 2021 , 178, 113017	11.8	21
153	Cobalt selenide nanostructures: Hydrothermal synthesis, considering the magnetic property and effect of the different synthesis conditions. <i>Journal of Molecular Liquids</i> , 2016 , 219, 1089-1094	6	21
152	CdSnO-graphene nanocomposites: Ultrasonic synthesis using glucose as capping agent and characterization for electrochemical hydrogen storage. <i>Ultrasonics Sonochemistry</i> , 2020 , 61, 104840	8.9	21
151	CdSe nanoparticles: facile hydrothermal synthesis, characterization and optical properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 6831-6836	2.1	20
150	Ultrasound-accelerated synthesis of uniform DyVO nanoparticles as high activity visible-light-driven photocatalyst. <i>Ultrasonics Sonochemistry</i> , 2019 , 59, 104719	8.9	20
149	A facile hydrothermal method for synthesis different morphologies of PbTe nanostructures. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 3335-3341	6.3	20
148	Hydrothermal preparation of silver telluride nanostructures and photo-catalytic investigation in degradation of toxic dyes. <i>Scientific Reports</i> , 2016 , 6, 20060	4.9	19
147	Optimized synthesis of ZnSe nanocrystals by hydrothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 293-303	2.1	19
146	MgCr ₂ O ₄ and MgCr ₂ O ₄ /Ag nanostructures: Facile size-controlled synthesis and their photocatalytic performance for destruction of organic contaminants?. <i>Composites Part B: Engineering</i> , 2019 , 175, 107077	10	18
145	Preparation and Characterization of PbS Nanoparticles via Cyclic Microwave Radiation Using Precursor of Lead (II) Oxalate. <i>Journal of Cluster Science</i> , 2014 , 25, 937-947	3	18
144	Synthesis of different morphologies of Cu ₂ CdI ₄ /CuI nanocomposite via simple hydrothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 11092-11101	2.1	18
143	Structural and spectroscopic characterization of HgS nanoparticles prepared via simple microwave approach in presence of novel sulfuring agent. <i>Transactions of Nonferrous Metals Society of China</i> , 2016 , 26, 759-766	3.3	18
142	Facile fabrication of Tl ₄ HgI ₆ nanostructures as novel antibacterial and antibiofilm agents and photocatalysts in the degradation of organic pollutants. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 2442-2460	6.8	18
141	Photocatalytic degradation of diverse organic dyes by sol-gel synthesized Cd ₂ V ₂ O ₇ nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 18120-18127	2.1	18

140	Electrochemical hydrogen storage properties of Ce _{0.75} Zr _{0.25} O ₂ nanopowders synthesized by sol-gel method. <i>Journal of Alloys and Compounds</i> , 2019 , 790, 884-890	5.7	17
139	Silver selenide nanoparticles: synthesis, characterisation and effect of preparation conditions under ultrasound radiation. <i>Micro and Nano Letters</i> , 2013 , 8, 508-511	0.9	17
138	Fabrication of an iron(III)-selective PVC membrane sensor based on a bis-bidentate Schiff base ionophore. <i>Transition Metal Chemistry</i> , 2008 , 33, 995-1001	2.1	17
137	Pechini synthesis and characteristics of GdCoMnO nanostructures and its structural, optical and photocatalytic properties. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 204, 232-240	4.4	17
136	Pechini synthesis of Co ₂ SiO ₄ magnetic nanoparticles and its application in photo-degradation of azo dyes. <i>Journal of Molecular Liquids</i> , 2016 , 220, 223-231	6	17
135	Controlled synthesis of Ti ₂ O ₃ nanostructures via microwave route by a novel pH adjuster and investigation of its photocatalytic activity. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 5326-5334	2.1	16
134	Thermal treatment synthesis of SnO ₂ nanoparticles and investigation of its light harvesting application. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	16
133	Sonochemical-assisted route for synthesis of spherical shaped holmium vanadate nanocatalyst for polluted waste water treatment. <i>Ultrasonics Sonochemistry</i> , 2019 , 58, 104686	8.9	16
132	Rapid and green combustion synthesis of nanocomposites based on ZnO nanostructures as photocatalysts for enhanced degradation of acid brown 14 contaminant under sunlight. <i>Separation and Purification Technology</i> , 2021 , 280, 119841	8.3	16
131	AgSCN micro/nanostructures: Facile sonochemical synthesis, characterization, and photoluminescence properties. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 3780-3788	6.3	15
130	Determination of zinc in water samples by flame atomic absorption spectrometry after homogeneous liquid-liquid extraction. <i>Journal of Analytical Chemistry</i> , 2011 , 66, 612-617	1.1	15
129	Sonochemical-assisted synthesis of pure DyZnMnO nanoparticles as a novel double perovskite and study of photocatalytic performance for wastewater treatment. <i>Ultrasonics Sonochemistry</i> , 2019 , 57, 172-184	8.9	14
128	Fe ₂ O ₃ /CeO ₂ Ceramic Nanocomposite Oxide: Characterization and Investigation of the Effect of Morphology on Its Electrochemical Hydrogen Storage Capacity. <i>ACS Applied Energy Materials</i> , 2018 , 1, 4840-4848	6.1	14
127	Sonochemical preparation of pure t-LaVO ₄ nanoparticles with the aid of tris(acetylacetonato)lanthanum hydrate as a novel precursor. <i>Ultrasonics Sonochemistry</i> , 2014 , 21, 653-662	8.9	14
126	Effect of Operational Synthesis Parameters on the Morphology and the Electrochemical Properties of 3D Hierarchical AlV ₃ O ₉ Architectures for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 020544	3.9	14
125	Magnetite as Inorganic Hole Transport Material for Lead Halide Perovskite-Based Solar Cells with Enhanced Stability. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 743-750	3.9	14
124	The effect of Cu ₂ B ₂ O ₇ nanocomposite fabricated by the sonochemical route on electrochemical hydrogen storage characteristics. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 19074-19084	6.7	14
123	The first synthesis of CdFeO nanostructures and nanocomposites and considering of magnetic, optical, electrochemical and photocatalytic properties. <i>Journal of Hazardous Materials</i> , 2019 , 367, 607-619	12.8	14

122	Synthesis and characterization of Ag ₂ CdI ₄ nanoparticles and photo-degradation of organic dyes. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 6272-6277	2.1	13
121	Photo-catalyst thallium sulfide: synthesis and optical characterization different morphologies of Tl ₂ S nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 8798-8806	2.1	13
120	Superhydrophobic/superoleophilic copper/graphite/styrene-butadiene-styrene based cotton filter for efficient separation of oil derivatives from aqueous mixtures. <i>Cellulose</i> , 2020 , 27, 4691-4705	5.5	13
119	Sol-gel auto combustion synthesis of BaFe ₁₈ O ₂₇ nanostructures for adsorptive desulfurization of liquid fuels. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 12320-12326	6.7	12
118	Co ₂ SiO ₄ nanostructures/nanocomposites: synthesis and investigations of optical, magnetic, photocatalytic, thermal stability and flame retardant properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 7077-7089	2.1	12
117	Amino acid modified combustion synthesis, characterization and investigation of magnetic, optical and photocatalytic properties of Gd ₂ CoMnO ₆ nanostructures. <i>Journal of Alloys and Compounds</i> , 2018 , 753, 615-621	5.7	12
116	Simple synthesis and characterization of nickel phosphide nanostructures assisted by different inorganic precursors. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 3619-3627	2.1	12
115	Synthesis and Characterization of Silver Selenide Nanoparticles via a Facile Sonochemical Route Starting from a Novel Inorganic Precursor. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2013 , 23, 357-364	3.2	12
114	Single-Source Molecular Precursor for Synthesis of CdS Nanoparticles and Nanoflowers. <i>High Temperature Materials and Processes</i> , 2012 , 31,	0.9	12
113	Long-Term Durability of Bromide-Incorporated Perovskite Solar Cells via a Modified Vapor-Assisted Solution Process. <i>ACS Applied Energy Materials</i> , 2018 , 1, 6018-6026	6.1	12
112	Extraction and preconcentration of ultra trace amounts of beryllium from aqueous samples by nanometer mesoporous silica functionalized by 2,4-dihydroxybenzaldehyde prior to ICP OES determination. <i>Mikrochimica Acta</i> , 2010 , 169, 241-248	5.8	11
111	Enhanced photocatalytic degradation of toxic contaminants using DyO-SiO ceramic nanostructured materials fabricated by a new, simple and rapid sonochemical approach.. <i>Ultrasonics Sonochemistry</i> , 2021 , 82, 105892	8.9	11
110	Hydrothermal synthesis of CoSe nanostructures without using surfactant. <i>Journal of Molecular Liquids</i> , 2016 , 220, 334-338	6	11
109	Green sol-gel auto combustion synthesis and characterization of double perovskite TbZnMnO nanoparticles and a brief study of photocatalytic activity.. <i>RSC Advances</i> , 2021 , 11, 8228-8238	3.7	11
108	Photo-degradation of organic dyes: simple chemical synthesis of various morphologies of tin dioxide semiconductor and its nanocomposite. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 6075-6085	2.1	10
107	Photoluminescence, photocatalytic and solar cell behaviors of as-prepared Germania nanoparticles from a sol-gel route. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 5822-5832	2.1	10
106	Green sol-gel auto-combustion synthesis, characterization and investigation of the electrochemical hydrogen storage properties of barium cobalt oxide nanocomposites with maltose. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 17662-17670	6.7	10
105	Mechanosynthesis and characterization AFe ₂ O ₄ (A: Ni, Cu, Zn)-activated carbon nanocomposite as an effective adsorbent for removal dodecanethiol. <i>Microporous and Mesoporous Materials</i> , 2018 , 262, 13-22	5.3	10

104	Separation and Preconcentration of Trace Gallium and Indium by Amberlite XAD-7 Resin Impregnated with a New Hexadentates Naphthol-Derivative Schiff Base. <i>Separation Science and Technology</i> , 2009 , 44, 1851-1868	2.5	10
103	Magnetic LuCuO-based ceramic nanostructured materials fabricated by a simple and green approach for an effective photocatalytic degradation of organic contamination.. <i>RSC Advances</i> , 2021 , 11, 40100-40111	3.7	10
102	A reliable hydrophobic/superoleophilic fabric filter for oil/water separation: hierarchical bismuth/purified terephthalic acid nanocomposite. <i>Cellulose</i> , 2020 , 27, 9559-9575	5.5	10
101	Co ₂ SiO ₄ nanostructures: New simple synthesis, characterization and investigation of optical property. <i>Materials Research Bulletin</i> , 2017 , 88, 248-257	5.1	9
100	Toxic effects of FeWO nanoparticles towards microalga <i>Dunaliella salina</i> : Sonochemical synthesis nanoparticles and investigate its impact on the growth. <i>Chemosphere</i> , 2020 , 258, 127348	8.4	9
99	Pechini synthesis using propylene glycol and various acid as stabilizing agents and characterization of Gd ₂ NiMnO ₆ ceramic nanostructures with good photocatalytic properties for removal of organic dyes in water. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 1720-1733	5.5	9
98	Synthesis of Co ₂ P/Co nanocomposites using single source precursor by thermal decomposition method. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 3271-3280	2.1	9
97	Synthesis and characterization of mercury telluride nanoparticles using a new precursor. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 3415-3420	6.3	9
96	Study on the optical, magnetic, and photocatalytic activities of the synthesized Mn ₂ O ₃ -SiO ₂ nanocomposites by microwave method. <i>Journal of Molecular Liquids</i> , 2017 , 242, 779-788	6	9
95	Synthesis, characterization, and catalytic oxidation of ethylbenzene over host (zeolite-Y)/guest (copper(II) complexes of tetraaza macrocyclic ligands) nanocomposite materials. <i>Journal of Coordination Chemistry</i> , 2010 , 63, 3240-3255	1.6	9
94	Facile One-Pot In Situ Synthesis and Characterization of a Cu ₂ O/Cu ₂ (PO ₄)(OH) Binary Heterojunction Nanocomposite for the Efficient Photocatalytic Degradation of Ciprofloxacin from Aqueous Solution under Direct Sunlight Irradiation. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 9578-9591	3.9	9
93	Green synthesis and characterization of MnCo ₂ O ₄ /Co ₂ Mn ₃ O ₈ ceramic nanocomposites and investigation of their cytotoxicity on the 4T1 cells. <i>Composites Part B: Engineering</i> , 2019 , 163, 424-430	10	9
92	Sonochemical synthesis, characterization and investigation of the electrochemical hydrogen storage properties of TlPb ₃ /Tl ₄ Pb ₆ nanocomposite. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 6648-6658	6.7	9
91	study of alginate-gelatin scaffolds incorporated with silica NPs as injectable, biodegradable hydrogels.. <i>RSC Advances</i> , 2021 , 11, 16688-16697	3.7	9
90	Thermosensitive alginate-gelatin-nitrogen-doped carbon dots scaffolds as potential injectable hydrogels for cartilage tissue engineering applications.. <i>RSC Advances</i> , 2021 , 11, 18423-18431	3.7	9
89	Synthesis, characterization and photovoltaic studies of CuInS ₂ nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 2810-2819	2.1	8
88	Investigation of photocatalytic, electrochemical, optical and magnetic behaviors of rare-earth double perovskites using combustion synthesized Gd ₂ NiMnO ₆ nanostructures in the presence of different saccharides. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 860-869	6.7	8
87	Green sonochemistry assisted synthesis of hollow magnetic and photoluminescent MgFeO-carbon dot nanocomposite as a sensor for toxic Ni(ii), Cd(ii) and Hg(ii) ions and bacteria.. <i>RSC Advances</i> , 2021 , 11, 22805-22811	3.7	8

86	Effect of precursor, microwave power and irradiation time on the particle size of CuInS ₂ nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 7936-7947	2.1	7
85	A Simple Sonochemical Route for Synthesis Silver Selenide Nanoparticles From SeCl ₄ and Silver Salicylate. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2015 , 45, 58-67		7
84	Cu ₂ ZnI ₄ /ZnO nanocomposites: In-situ synthesis, characterization and optical properties. <i>Journal of Molecular Liquids</i> , 2016 , 222, 435-440	6	7
83	Synthesis and Characterization of CdCO ₃ Nanostructures via Simple Hydrothermal Method. <i>Journal of Cluster Science</i> , 2013 , 24, 1-9	3	7
82	Simple sol-gel green auto combustion synthesis by using carbohydrate sugars as a novel reducing agent, characterization, photocatalytic behavior and slow-burning property of Ni ₂ SiO ₄ nanocomposites. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 16981-16991	2.1	7
81	Synthesis, characterization and catalytic oxidation of cyclohexene with molecular oxygen over host (nanopores of zeolite-Y)/guest ([Ni([R] ₂ -N ₂ X ₂)] ₂ ⁺ (R = H, CH ₃ ; X = NH, O, S) nanocatalyst. <i>Journal of Coordination Chemistry</i> , 2009 , 62, 980-995	1.6	7
80	Facile synthesis of Au/ZnO/RGO nanohybrids using 1,8-diamino-3,6-dioxaoctan as novel functional agent for photo-degradation water treatment. <i>Journal of Materials Research and Technology</i> , 2021 , 15, 6098-6112	5.5	7
79	Li ₂ MnO ₃ /LiMnBO ₃ /MnFe ₂ O ₄ ternary nanocomposites: Pechini synthesis, characterization and photocatalytic performance. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 21241-21251	6.7	6
78	Synthesis of bismuth sulfide nanostructures by using bismuth(III) monosalicylate precursor and fabrication of bismuth sulfide based p-n junction solar cells. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2014 , 9, 16-23	1.3	6
77	Synthesis and characterization of PbTe micro/nanostructures through hydrothermal method by using a novel capping agent. <i>Bulletin of Materials Science</i> , 2014 , 37, 753-759	1.7	6
76	Electrochemical sensor based on a chitosan-molybdenum vanadate nanocomposite for detection of hydroxychloroquine in biological samples.. <i>Journal of Colloid and Interface Science</i> , 2022 , 613, 1-14	9.3	6
75	A study on electrochemical hydrogen storage properties of truncated octahedron cobalt cerium molybdate nanocrystals synthesized by solution combustion method. <i>Journal of Alloys and Compounds</i> , 2021 , 858, 158374	5.7	6
74	Interfacial Passivation of Perovskite Solar Cells by Reactive Ion Scavengers. <i>ACS Applied Energy Materials</i> , 2021 , 4, 1078-1084	6.1	6
73	Characterization of hydrogen storage behavior of the as-synthesized p-type NiO/n-type CeO ₂ nanocomposites by carbohydrates as a capping agent: The influence of morphology. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 14557-14568	6.7	6
72	Zn ₂ MnO ₄ /ZnO nanocomposites: One step sonochemical fabrication and demonstration as a novel catalyst in water splitting reaction. <i>Ceramics International</i> , 2020 , 46, 25789-25801	5.1	5
71	Unveiling the synthesis of CuCe ₂ (MoO ₄) ₄ nanostructures and its physico-chemical properties on electrochemical hydrogen storage. <i>Journal of Alloys and Compounds</i> , 2020 , 826, 154023	5.7	5
70	Synthesis and Characterization of CdS Nanoparticles via Cyclic Microwave from Cadmium Oxalate. <i>Journal of Cluster Science</i> , 2013 , 24, 299-313	3	5
69	PbHgI ₄ /HgI ₂ nanocomposite: simple synthesis, characterization and electrochemical and optical properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 2615-2623	2.1	5

68	Host (nanopores of zeolite-Y)/guest (Co(II)-azamacrocyclic complexes) nanocomposite materials: synthesis, characterization and catalytic epoxidation of styrene with molecular oxygen. <i>Journal of Coordination Chemistry</i> , 2008 , 61, 2837-2851	1.6	5
67	Comparative study on electrochemical hydrogen storage of nanocomposites based on S or N doped graphene quantum dots and nanostructured titanium niobate. <i>Journal of Alloys and Compounds</i> , 2022 , 899, 163379	5.7	5
66	Synergic and coupling effect between SnO ₂ nanoparticles and hierarchical AlV ₃ O ₉ microspheres toward emerging electrode materials for lithium-ion battery devices. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 2735-2748	6.8	5
65	Photocatalytic degradation of antibiotic using Ni-doped thallium(I) orthotungstate nanorods: Hydrothermal synthesis and characterization. <i>Journal of Alloys and Compounds</i> , 2021 , 874, 159856	5.7	5
64	Preparation and study of characteristics of LiCoO/FeO/LiBO nanocomposites as ideal active materials for electrochemical hydrogen storage.. <i>RSC Advances</i> , 2021 , 11, 23430-23436	3.7	5
63	Synthesis and Characterization of Barium Carbonate Nanostructures Via Simple Hydrothermal Method. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2016 , 46, 317-322		4
62	Synthesis and Characterization of AgSCN Micro/Nanostructures by Sonochemical Method. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2015 , 45, 1191-1198		4
61	Density functional B3LYP and B3PW91 studies of the properties of four cyclic organodiboranes with tetramethylene fragments. <i>Journal of Structural Chemistry</i> , 2010 , 51, 437-443	0.9	4
60	Synthesis, characterization and catalytic oxidation of tetrahydrofuran with 16-membered pentaazabis(macrocylic) copper(II) complexes; {[Cu([16]aneN ₅)] ₂ R} ⁴⁺ (R = aromatic nitrogen–nitrogen linkers). <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2007 , 59, 223-230		4
59	The impact of zirconium oxide nanoparticles content on alginate dialdehyde-gelatin scaffolds in cartilage tissue engineering. <i>Journal of Molecular Liquids</i> , 2021 , 335, 116531	6	4
58	Synthesis and Characterization of Mg(OH) ₂ and MgO Nanostructures Via Simple Hydrothermal Method. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2016 , 46, 681-686		3
57	Hydrothermal synthesis and characterization of lead oxide nanocrystal in presence of tetradentate Schiff-base and degradation investigation of organic pollutant in waste water. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 9919-9926	2.1	3
56	Synthesis and Characterization of Calcium Carbonate Nanostructures via Simple Hydrothermal Method. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2015 , 45, 848-857		3
55	Graphite Nanosheets: Thermal Treatment Synthesis and Characterization. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2016 , 46, 877-882		3
54	INVESTIGATION OF ADSORPTION AND INHIBITIVE PROPERTIES OF SOME DIAMINE COMPOUNDS ON MILD STEEL CORROSION IN HYDROCHLORIC ACID SOLUTION. <i>Chemical Engineering Communications</i> , 2014 , 201, 1077-1095	2.2	3
53	Synthesis and Characterization of Copper(II) Complex Nanoparticles ([Cu([18]py) ₂ N ₄)] ²⁺ , [Cu([20]py) ₂ N ₄)] ²⁺ , [Cu(Bzo ₂ [18]py ₂ N ₄)] ²⁺ , [Cu(Bzo ₂ [20]py ₂ N ₄)] ²⁺ Encapsulated within the Zeolite-Y. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2010 , 40, 345-354		3
52	Fabrication and characterization of molybdenum(VI)complex-TiO ₂ nanoparticles modified electrode for the electrocatalytic determination of L-cysteine. <i>Journal of the Serbian Chemical Society</i> , 2011 , 76, 575-589	0.9	3
51	Synthesis and characterization of carbon sphere-supported sand-rose like N-GQDs/NiCo ₂ S ₄ structures with synergetic effect for development of hydrogen storage capacity. <i>Fuel</i> , 2022 , 312, 122956 ^{7.1}		3

50	Green synthesis of SrFeO@Ag and SrFeO@Au as magnetic plasmonic nanocomposites with high photocatalytic performance for degradation of organic pollutants. <i>Chemosphere</i> , 2021 , 291, 132741	8.4	3
49	Toxicity evaluation and preparation of CoWO nanoparticles towards microalga <i>Dunaliella salina</i> . <i>Environmental Science and Pollution Research</i> , 2021 , 28, 36314-36325	5.1	3
48	Role of morphology in electrochemical hydrogen storage using binary DyFeO ₃ -ZnO nanocomposites as electrode materials. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 21026-21039	6.7	3
47	Synthesis of SiO ₂ Nanocrystals by Two Approaches and Their Application in Photocatalytic Degradation and Flame Retardant Polymeric Nanocomposite. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019 , 29, 378-389	3.2	3
46	Sol-gel synthesis and characterization of CoO/CeO nanocomposites and its application for photocatalytic discoloration of organic dye from aqueous solutions. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 7001-7015	5.1	3
45	Barium cobaltite nanoparticles: Sol-gel synthesis and characterization and their electrochemical hydrogen storage properties. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 886-895	6.7	3
44	LaSnO/g-CN nanocomposites: Rapid and green sonochemical fabrication and photo-degradation performance for removal of dye contaminations. <i>Ultrasonics Sonochemistry</i> , 2021 , 77, 105678	8.9	3
43	Controllable synthesis and characterization of MgSiO nanostructures a simple hydrothermal route using carboxylic acid as capping agent and their photocatalytic performance for photodegradation of azo dyes.. <i>RSC Advances</i> , 2021 , 11, 21588-21599	3.7	3
42	Nanocomposite scaffolds based on gelatin and alginate reinforced by Zn ₂ SiO ₄ with enhanced mechanical and chemical properties for tissue engineering. <i>Arabian Journal of Chemistry</i> , 2022 , 15, 103730	5.9	2
41	Efficient purification of wastewater by applying mechanical force and BaCO ₃ /TiO ₂ and BaTiO ₃ /TiO ₂ piezocatalysts.. <i>RSC Advances</i> , 2021 , 11, 37138-37149	3.7	2
40	Morphology engineering of LiFeO ₂ nanostructures through synthesis controlling for electrochemical hydrogen storage inquiries. <i>Fuel</i> , 2022 , 313, 123025	7.1	2
39	Dy ₂ Cu ₂ O ₅ nanostructures: Sonochemical fabrication, characterization, and investigation of photocatalytic ability for elimination of organic contaminants. <i>Journal of Molecular Liquids</i> , 2021 , 344, 117883	6	2
38	Lead carbonate hydroxide nanostructures: a new hydrothermal synthesis in the presence of ethylenediamine and hydrazine and investigation photocatalytic behavior. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 20947-20957	2.1	2
37	Enhanced photocatalytic activity of Sr ₇ Mn ₇ O _{19.62} -Dy ₂ O ₃ nanocomposite synthesized via a green method. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 3763-3779	6.7	2
36	DyMnO/FeO nanocomposites: simple sol-gel auto-combustion technique and photocatalytic performance for water treatment. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 11066-11076	5.1	2
35	Facile preparation and characterization of a novel visible-light-responsive RbHgl nanostructure photocatalyst.. <i>RSC Advances</i> , 2021 , 11, 30849-30859	3.7	2
34	Synthesis and characterization of AFeO (A: Ni, Co, Mg)-silica nanocomposites and their application for the removal of dibenzothiophene (DBT) by an adsorption process: kinetics, isotherms and experimental design.. <i>RSC Advances</i> , 2021 , 11, 22661-22676	3.7	2
33	ZnCo ₂ O ₄ /ZnO nanocomposite: Facile one-step green solid-state thermal decomposition synthesis using <i>Dactylopius Coccus</i> as capping agent, characterization and its 4T1 cells cytotoxicity investigation and anticancer activity. <i>Arabian Journal of Chemistry</i> , 2021 , 14, 103316	5.9	2

32	Visible light-induced degradation of amoxicillin antibiotic by novel CuI/FePO ₄ p-n heterojunction photocatalyst and photodegradation mechanism. <i>Journal of Alloys and Compounds</i> , 2021 , 892, 162176	5.7	2
31	Simple preparation of chitosan-coated thallium lead iodide nanostructures as a new visible-light photocatalyst in decolorization of organic contamination. <i>Journal of Molecular Liquids</i> , 2021 , 341, 117299	6	2
30	Solvothermal Synthesis and Characterization of PbSe Nanostructures with the Aid of Schiff-base Ligand. <i>Journal of Cluster Science</i> , 2013 , 24, 657-667	3	1
29	Highly Selective and Sensitive Tin(II) Membrane Electrode Based on a New Synthesized Schiff Base. <i>Electroanalysis</i> , 2009 , 21, NA-NA	3	1
28	Synthesis and Characterization of Nickel(II) Complexes with 18-Membered Decaaza Macrocycles 1,10-dialkyl-5,6,14,15-tetraphenyl-1,3,4,7,8,10,12,13,16,17-decaazacyclooctadecane. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2005 , 35, 469-475		1
27	Green fabrication of graphene quantum dots from cotton with CaSiO ₃ nanostructure and enhanced photocatalytic performance for water treatment. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 7228-7241	6.7	1
26	A simple hydrothermal route for the preparation of novel Na-Y-W nano-oxides and their application in dye degradation.. <i>RSC Advances</i> , 2022 , 12, 4913-4923	3.7	1
25	Improved Pechini Sol-gel Fabrication of Li ₂ B ₄ O ₇ /NiO/Ni ₃ (BO ₃) ₂ Nanocomposites to Advanced Photocatalytic Performance. <i>Arabian Journal of Chemistry</i> , 2022 , 103768	5.9	1
24	Sonochemical synthesis and characterization of Cu ₂ HgI ₄ nanostructures photocatalyst with enhanced visible light photocatalytic ability. <i>Arabian Journal of Chemistry</i> , 2021 , 103536	5.9	1
23	Eco-friendly sonochemistry preparation and electrochemical hydrogen storage of LaCoO ₃ /CoO/La ₂ O ₃ nanocomposites. <i>Fuel</i> , 2021 , 311, 122544	7.1	1
22	Fabrication of TlSnI ₃ /C ₃ N ₄ nanocomposites for enhanced photodegradation of toxic contaminants below visible light and investigation of kinetic and mechanism of photocatalytic reaction. <i>Journal of Molecular Liquids</i> , 2022 , 349, 118443	6	1
21	Fabrication of S-scheme ZnO/Zn ₃ (PO ₄) ₂ heterojunction photocatalyst toward photodegradation of tetracycline antibiotic and photocatalytic mechanism insight. <i>International Journal of Hydrogen Energy</i> , 2021 , 47, 928-928	6.7	1
20	Simple Thermal Decompose Method for Synthesis of Nickel Disulfide Nanostructures. <i>High Temperature Materials and Processes</i> , 2016 , 35, 1017-1019	0.9	1
19	Photocatalytic and antibacterial activities of Tl-Hg-I nanocomposites: sonochemical synthesis and characterization.. <i>RSC Advances</i> , 2021 , 11, 22238-22249	3.7	1
18	Tb ₂ CoMnO ₆ double perovskites nanoparticles as photocatalyst for the degradation of organic dyes: Synthesis and characterization. <i>Arabian Journal of Chemistry</i> , 2021 , 14, 103349	5.9	1
17	Synthesis and investigation of physicochemical properties of alginate dialdehyde/gelatin/ZnO nanocomposites as injectable hydrogels. <i>Polymer Testing</i> , 2022 , 110, 107562	4.5	1
16	New avenue for preparation of potential hydrogen storage materials based on K10 montmorillonite and Ca ₂ Mn ₃ O ₈ /CaMn ₃ O ₆ nanocomposites. <i>Fuel</i> , 2022 , 320, 123933	7.1	1
15	Synthesis of calcium manganese oxide with different constructions as potential materials for electrochemical hydrogen storage. <i>Fuel</i> , 2022 , 321, 124074	7.1	1

14	Decoration of green synthesized S, N-GQDs and CoFeO on halloysite nanoclay as natural substrate for electrochemical hydrogen storage application.. <i>Scientific Reports</i> , 2022 , 12, 8103	4.9	1
13	Green sonochemistry fabrication of pure Gd ₂ Sn ₂ O ₇ nanoparticles with advanced photocatalytic efficiency for elimination of dye pollutions. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 5269-5280	6.7	0
12	Agaricus bisporus extract as an excellent biotemplate agent for the synthesis of nano-plate Dy ₂ Ti ₂ O ₇ /g-C ₃ N ₄ and its application in electrochemical hydrogen storage. <i>Fuel</i> , 2022 , 317, 123475	7.1	0
11	Synthesis of La _{9.33} Si ₆ O ₂₆ nano-photocatalysts by ultrasonically accelerated method for comparing water treatment efficiency with changing conditions. <i>Arabian Journal of Chemistry</i> , 2022 , 15, 103481	5.9	0
10	Toxicity of NdWO nanoparticles to the microalga : synthesis of nanoparticles and investigation of their impact on microalgae.. <i>RSC Advances</i> , 2021 , 11, 27283-27291	3.7	0
9	A new phase transfer nanocatalyst NiFeO-PEG for removal of dibenzothiophene by an ultrasound assisted oxidative process: kinetics, thermodynamic study and experimental design.. <i>RSC Advances</i> , 2021 , 11, 31448-31459	3.7	0
8	Sol-gel auto combustion synthesis, characterization, and application of TbFeMnO nanostructures as an effective photocatalyst for the discoloration of organic dye contaminants in wastewater.. <i>RSC Advances</i> , 2021 , 11, 26844-26854	3.7	0
7	Eco-friendly synthesis by Rosemary extract and characterization of Fe ₃ O ₄ @SiO ₂ magnetic nanocomposite as a potential adsorbent for enhanced arsenic removal from aqueous solution: isotherm and kinetic studies. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	0
6	Electrochemical hydrogen storage capacities of sol-gel synthesized Dy ₃ Fe ₅ O ₁₂ /DyFeO ₃ nanocomposites: Schiff-base ligand-assisted synthesis and characterization. <i>Fuel</i> , 2022 , 324, 124600	7.1	0
5	Sonochemical synthesis and characterization of CuInS ₂ nanostructures using new sulfur precursor and their application as photocatalyst for degradation of organic pollutants under simulated sunlight. <i>Arabian Journal of Chemistry</i> , 2022 , 15, 104007	5.9	0
4	Auto-combustion synthesis of Sr ₂ Fe ₂ O ₅ /Dy ₃ Fe ₅ O ₁₂ nanocomposite using Hordeum vulgare L extract: Preparation, structural analysis and evaluation of its photocatalytic and electrochemical behaviors. <i>Journal of Alloys and Compounds</i> , 2022 , 896, 163032	5.7	
3	Facile sonochemical method for preparation of CsHgI nanostructures as a promising visible-light photocatalyst. <i>Ultrasonics Sonochemistry</i> , 2021 , 80, 105827	8.9	
2	Green self-assembly of CuCe ₂ (MoO ₄) ₄ /montmorillonite-K10 nanocomposites; a promising solid-state hydrogen storage profile. <i>Fuel</i> , 2021 , 310, 122401	7.1	
1	Effects of the NiFeO nanoadditive on the performance and emission characteristics of diesel engines: ultrasonic green synthesis by T3 hormone.. <i>RSC Advances</i> , 2021 , 11, 27701-27713	3.7	