

# Masoud Salavati-Niasari

## List of Publications by Year in descending order

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308  
papers

17,138  
citations

10351

72  
h-index

20900

115  
g-index

308  
all docs

308  
docs citations

308  
times ranked

10142  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, characterization and application of Co/Co <sub>3</sub> O <sub>4</sub> 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.	2.3	553
2	Control sonochemical parameter to prepare pure Zn <sub>0.35</sub> Fe <sub>2.65</sub> O <sub>4</sub> nanostructures and study their photocatalytic activity. <i>Ultrasonics Sonochemistry</i> , 2019, 58, 104619.	3.8	376
3	Dy <sub>2</sub> BaCuO <sub>5</sub> /Ba <sub>4</sub> DyCu <sub>3</sub> O <sub>9.09</sub> Sâ€šcheme heterojunction nanocomposite with enhanced photocatalytic and antibacterial activities. <i>Journal of the American Ceramic Society</i> , 2021, 104, 2952-2965.	1.9	370
4	Green sonochemical synthesis of BaDy <sub>2</sub> NiO <sub>5</sub> /Dy <sub>2</sub> O <sub>3</sub> and BaDy <sub>2</sub> NiO <sub>5</sub> /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.	1.7	346
5	Eco-friendly synthesis of Nd <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> â€šbased 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.	5.9	312
6	Photo-degradation of organic dyes: simple chemical synthesis of Ni(OH) <sub>2</sub> nanoparticles, Ni/Ni(OH) <sub>2</sub> and Ni/NiO magnetic nanocomposites. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 1244-1253.	1.1	295
7	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.	6.5	268
8	Hydrothermal green synthesis of magnetic Fe <sub>3</sub> O <sub>4</sub> -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.	2.0	217
9	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.	2.3	212
10	Nd <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> nanostructures: Green synthesis and characterization using date palm extract, a potential electrochemical hydrogen storage material. <i>Ceramics International</i> , 2020, 46, 17186-17196.	2.3	199
11	Fabrication and characterization of Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> @TiO <sub>2</sub> @Ho nanostructures as a novel and highly efficient photocatalyst for degradation of organic pollution. <i>Journal of Energy Chemistry</i> , 2017, 26, 17-23.	7.1	196
12	Grafting of CuFe <sub>2</sub> O <sub>4</sub> nanoparticles on CNT and graphene: Eco-friendly synthesis, characterization and photocatalytic activity. <i>Journal of Cleaner Production</i> , 2018, 176, 1185-1197.	4.6	193
13	Tl <sub>4</sub> CdI <sub>6</sub> Nanostructures: Facile Sonochemical Synthesis and Photocatalytic Activity for Removal of Organic Dyes. <i>Inorganic Chemistry</i> , 2018, 57, 11443-11455.	1.9	179
14	Electrochemical hydrogen storage capacity and optical properties of NiAl <sub>2</sub> O <sub>4</sub> /NiO nanocomposite synthesized by green method. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 5235-5245.	3.8	176
15	Simple sol-gel synthesis and characterization of new CoTiO <sub>3</sub> /CoFe <sub>2</sub> O <sub>4</sub> 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.	5.0	176
16	A sonochemical method for synthesis of Fe <sub>3</sub> O <sub>4</sub> nanoparticles and thermal stable PVA-based magnetic nanocomposite. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 3970-3974.	2.9	174
17	Caffeine: A novel green precursor for synthesis of magnetic CoFe <sub>2</sub> O <sub>4</sub> nanoparticles and pH-sensitive magnetic alginate beads for drug delivery. <i>Materials Science and Engineering C</i> , 2017, 76, 1085-1093.	3.8	174
18	Nd <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> nanocomposites: A simple sonochemical preparation, characterization and photocatalytic activity. <i>Ultrasonics Sonochemistry</i> , 2018, 42, 171-182.	3.8	174

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19	Degradation of methylene blue and Rhodamine B as water pollutants via green synthesized Co <sub>3</sub> O <sub>4</sub> /ZnO nanocomposite. <i>Journal of Molecular Liquids</i> , 2017, 229, 293-299.	2.3	169
20	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.	5.1	168
21	Recyclable magnetic superhydrophobic straw soot sponge for highly efficient oil/water separation. <i>Journal of Colloid and Interface Science</i> , 2017, 497, 57-65.	5.0	166
22	Photoluminescence carbon dot as a sensor for detecting of <i>Pseudomonas aeruginosa</i> bacteria: Hydrothermal synthesis of magnetic hollow NiFe <sub>2</sub> O <sub>4</sub> -carbon dots nanocomposite material. <i>Composites Part B: Engineering</i> , 2019, 161, 564-577.	5.9	164
23	Enhanced photodegradation of dye in waste water using iron vanadate nanocomposite; ultrasound-assisted preparation and characterization. <i>Ultrasonics Sonochemistry</i> , 2017, 39, 494-503.	3.8	163
24	Novel synthesis of Zn <sub>2</sub> GeO <sub>4</sub> /graphene nanocomposite for enhanced electrochemical hydrogen storage performance. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 17184-17191.	3.8	161
25	Magnetically retrievable ferrite nanoparticles in the catalysis application. <i>Advances in Colloid and Interface Science</i> , 2019, 271, 101982.	7.0	161
26	A simple sonochemical approach for synthesis and characterization of Zn <sub>2</sub> SiO <sub>4</sub> nanostructures. <i>Ultrasonics Sonochemistry</i> , 2016, 29, 226-235.	3.8	158
27	Microwave-assisted synthesis and photovoltaic measurements of CuInS <sub>2</sub> nanoparticles prepared by using metal-organic precursors. <i>Materials Research Bulletin</i> , 2012, 47, 3148-3159.	2.7	157
28	Self-assembly of hydrogen storage materials based multi-walled carbon nanotubes (MWCNTs) and Dy <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> (DFO) nanoparticles. <i>Journal of Alloys and Compounds</i> , 2018, 745, 789-797.	2.8	157
29	Application of ultrasound-aided method for the synthesis of NdVO <sub>4</sub> nano-photocatalyst and investigation of eliminate dye in contaminant water. <i>Ultrasonics Sonochemistry</i> , 2018, 42, 201-211.	3.8	156
30	Design of Magnetically Recyclable Ternary Fe <sub>2</sub> O <sub>3</sub> /EuVO <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> Nanocomposites for Photocatalytic and Electrochemical Hydrogen Storage. <i>ACS Applied Energy Materials</i> , 2021, 4, 680-695.	2.5	156
31	Synthesis and adsorption studies of NiO nanoparticles in the presence of H <sub>2</sub> acacen ligand, for removing Rhodamine B in wastewater treatment. <i>Chemical Engineering Research and Design</i> , 2015, 93, 282-292.	2.7	153
32	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.	1.0	150
33	Enhanced visible-light-driven photocatalytic performance for degradation of organic contaminants using PbWO <sub>4</sub> nanostructure fabricated by a new, simple and green sonochemical approach. <i>Ultrasonics Sonochemistry</i> , 2021, 72, 105420.	3.8	149
34	Nanoscale microreactor-encapsulation of 18-membered decaaza macrocycle nickel(II) complexes. <i>Inorganic Chemistry Communication</i> , 2005, 8, 174-177.	1.8	148
35	Silver chromate and silver dichromate nanostructures: Sonochemical synthesis, characterization, and photocatalytic properties. <i>Materials Research Bulletin</i> , 2013, 48, 2084-2094.	2.7	146
36	Nd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> -Nd <sub>2</sub> O <sub>3</sub> nanocomposites: New facile synthesis, characterization and investigation of photocatalytic behaviour. <i>Materials Letters</i> , 2016, 180, 27-30.	1.3	144

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37	Synthesis and Characterization of Host (Nanodimensional Pores of Zeolite-Y)â€™Guest [Unsaturated 16-Membered Octaazaâ€™macrocycle Manganese(II), Cobalt(II), Nickel(II), Copper(II), and Zinc(II) Complexes] Nanocomposite Materials. <i>Chemistry Letters</i> , 2005, 34, 1444-1445.	0.7	143
38	Freeze-drying synthesis, characterization and in vitro bioactivity of chitosan/graphene oxide/hydroxyapatite nanocomposite. <i>RSC Advances</i> , 2014, 4, 25993.	1.7	143
39	Nanodimensional Microreactor-encapsulation of 18-Membered Decaaza Macrocycle Copper(II) Complexes. <i>Chemistry Letters</i> , 2005, 34, 244-245.	0.7	142
40	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.	2.8	140
41	Investigation of the electrochemical hydrogen storage and photocatalytic properties of CoAl <sub>2</sub> O <sub>4</sub> pigment: Green synthesis and characterization. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 9418-9426.	3.8	139
42	Synthesis and characterization of spherical silica nanoparticles by modified StÃ¶ber process assisted by organic ligand. <i>Superlattices and Microstructures</i> , 2013, 61, 33-41.	1.4	138
43	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.	4.8	136
44	Gd <sub>2</sub> ZnMnO <sub>6</sub> /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.	2.8	135
45	Modified single-phase hematite nanoparticles via a facile approach for large-scale synthesis. <i>Chemical Engineering Journal</i> , 2011, 170, 278-285.	6.6	133
46	Synthesis of star-shaped PbS nanocrystals using single-source precursor. <i>Journal of Alloys and Compounds</i> , 2010, 507, 77-83.	2.8	132
47	Green synthesis using cherry and orange juice and characterization of TbFeO <sub>3</sub> 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.	4.6	132
48	ZnO nanotriangles: Synthesis, characterization and optical properties. <i>Journal of Alloys and Compounds</i> , 2009, 476, 908-912.	2.8	131
49	Star-shaped PbS nanocrystals prepared by hydrothermal process in the presence of thioglycolic acid. <i>Polyhedron</i> , 2012, 35, 149-153.	1.0	127
50	Synthesis and characterization of NiO nanoclusters via thermal decomposition. <i>Polyhedron</i> , 2009, 28, 1111-1114.	1.0	122
51	Simple sonochemical synthesis and characterization of HgSe nanoparticles. <i>Ultrasonics Sonochemistry</i> , 2012, 19, 1079-1086.	3.8	117
52	Facile microwave synthesis, characterization, and solar cell application of selenium nanoparticles. <i>Journal of Alloys and Compounds</i> , 2014, 617, 627-632.	2.8	113
53	Enhanced photocatalytic degradation of toxic contaminants using Dy <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> ceramic nanostructured materials fabricated by a new, simple and rapid sonochemical approach. <i>Ultrasonics Sonochemistry</i> , 2022, 82, 105892.	3.8	108
54	Preparation of PbO nanocrystals via decomposition of lead oxalate. <i>Polyhedron</i> , 2009, 28, 2263-2267.	1.0	107

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55	Simple fabrication of Pr <sub>2</sub> CeO <sub>7</sub> 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.	2.8	107
56	Passivation Mechanism Exploiting Surface Dipoles Affords High-Performance Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2020, 142, 11428-11433.	6.6	107
57	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.	1.7	102
58	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.	4.8	97
59	Facile synthesis, characterization and magnetic property of CuFe <sub>12</sub> O <sub>19</sub> nanostructures via a sol-gel auto-combustion process. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 401, 362-369.	1.0	92
60	PbTiO <sub>3</sub> /PbFe <sub>12</sub> O <sub>19</sub> nanocomposites: Green synthesis through an eco-friendly approach. <i>Composites Part B: Engineering</i> , 2016, 85, 170-175.	5.9	90
61	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.	3.9	89
62	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.	0.8	88
63	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.	3.9	87
64	Facile precipitation synthesis and electrochemical evaluation of Zn <sub>2</sub> SnO <sub>4</sub> nanostructure as a hydrogen storage material. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 12420-12429.	3.8	85
65	Effect of Li <sub>2</sub> CoMn <sub>3</sub> O <sub>8</sub> 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.	1.5	84
66	Hydroxyapatite nanocrystals: Simple preparation, characterization and formation mechanism. <i>Materials Science and Engineering C</i> , 2014, 45, 29-36.	3.8	83
67	Effects of copper:aluminum ratio in CuO/Al <sub>2</sub> O <sub>3</sub> nanocomposite: Electrochemical hydrogen storage capacity, band gap and morphology. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 15141-15148.	3.8	81
68	Sol-gel auto-combustion synthesis of PbFe <sub>12</sub> O <sub>19</sub> using maltose as a novel reductant. <i>RSC Advances</i> , 2014, 4, 63946-63950.	1.7	80
69	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.	1.1	80
70	Novel Schiff base ligand-assisted in-situ synthesis of Cu <sub>3</sub> V <sub>2</sub> O <sub>8</sub> nanoparticles via a simple precipitation approach. <i>Journal of Molecular Liquids</i> , 2016, 216, 59-66.	2.3	80
71	Fabrication of nanocomposite photocatalyst CuBi <sub>2</sub> O <sub>4</sub> /Bi <sub>3</sub> ClO <sub>4</sub> for removal of acid brown 14 as water pollutant under visible light irradiation. <i>Journal of Hazardous Materials</i> , 2019, 361, 210-220.	6.5	80
72	Copper iodide decorated graphitic carbon nitride sheets with enhanced visible-light response for photocatalytic organic pollutant removal and antibacterial activities. <i>Ecotoxicology and Environmental Safety</i> , 2021, 208, 111712.	2.9	77

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73	Enhancement of magnetic, electrochemical and photocatalytic properties of lead hexaferrites with coating graphene and CNT: Sol-gel auto-combustion synthesis by valine. Separation and Purification Technology, 2017, 185, 140-148.	3.9	75
74	Amino acid assisted-synthesis and characterization of magnetically retrievable ZnCo <sub>2</sub> O <sub>4</sub> @Co <sub>3</sub> O <sub>4</sub> nanostructures as high activity visible-light-driven photocatalyst. International Journal of Hydrogen Energy, 2020, 45, 22761-22774.	3.8	74
75	Simple morphology-controlled fabrication of nickel chromite nanostructures via a novel route. Chemical Engineering Journal, 2015, 279, 605-614.	6.6	73
76	NiTiO <sub>3</sub> /NiFe <sub>2</sub> O <sub>4</sub> nanocomposites: Simple sol-gel auto-combustion synthesis and characterization by utilizing onion extract as a novel fuel and green capping agent. Materials Science in Semiconductor Processing, 2016, 43, 34-40.	1.9	73
77	Simple synthesis-controlled fabrication of thallium cadmium iodide nanostructures via a novel route and photocatalytic investigation in degradation of toxic dyes. Inorganica Chimica Acta, 2017, 455, 88-97.	1.2	73
78	Simple approach for the synthesis of Dy <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> nanostructures as a hydrogen storage material from banana juice. Journal of Cleaner Production, 2019, 222, 103-110.	4.6	73
79	Transition metal selenides and diselenides: Hydrothermal fabrication, investigation of morphology, particle size and their applications in photocatalyst. Advances in Colloid and Interface Science, 2021, 287, 102321.	7.0	72
80	Preparation, characterization and photocatalytic properties of Ag <sub>2</sub> Zn <sub>4</sub> /AgI nanocomposites via a new simple hydrothermal approach. Journal of Molecular Liquids, 2017, 225, 645-651.	2.3	71
81	Hydrothermal architecture of Cu <sub>5</sub> V <sub>2</sub> O <sub>10</sub> nanostructures as new electro-sensing catalysts for voltammetric quantification of mefenamic acid in pharmaceuticals and biological samples. Biosensors and Bioelectronics, 2021, 178, 113017.	5.3	71
82	Green synthesis and characterization of RGO/Cu nanocomposites as photocatalytic degradation of organic pollutants in waste-water. International Journal of Hydrogen Energy, 2021, 46, 20534-20546.	3.8	71
83	Synthesis and characterization of a nickel selenide series via a hydrothermal process. Superlattices and Microstructures, 2014, 65, 79-90.	1.4	69
84	Synthesis, characterization and degradation of organic dye over Co <sub>3</sub> O <sub>4</sub> nanoparticles prepared from new binuclear complex precursors. RSC Advances, 2014, 4, 46517-46520.	1.7	68
85	Electrochemical sensor based on a chitosan-molybdenum vanadate nanocomposite for detection of hydroxychloroquine in biological samples. Journal of Colloid and Interface Science, 2022, 613, 1-14.	5.0	68
86	Magnetic Lu <sub>2</sub> Cu <sub>2</sub> O <sub>5</sub> -based ceramic nanostructured materials fabricated by a simple and green approach for an effective photocatalytic degradation of organic contamination. RSC Advances, 2021, 11, 40100-40111.	1.7	68
87	Utilizing maleic acid as a novel fuel for synthesis of PbFe <sub>12</sub> O <sub>19</sub> nanoceramics via sol-gel auto-combustion route. Materials Characterization, 2015, 103, 11-17.	1.9	66
88	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. Journal of Physical Chemistry C, 2017, 121, 21935-21944.	1.5	65
89	Sonochemical synthesis, characterization and application of PrVO <sub>4</sub> nanostructures as an effective photocatalyst for discoloration of organic dye contaminants in wastewater. Ultrasonics Sonochemistry, 2020, 61, 104822.	3.8	65
90	Sonochemical synthesis of Dy <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> nanoparticles, Dy(OH) <sub>3</sub> nanotubes and their conversion to Dy <sub>2</sub> O <sub>3</sub> nanoparticles. Ultrasonics Sonochemistry, 2010, 17, 870-877.	3.8	64



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91	Synthesis and characterization of FeSe <sub>2</sub> nanoparticles and FeSe <sub>2</sub> /FeO(OH) nanocomposites by hydrothermal method. <i>Journal of Alloys and Compounds</i> , 2015, 625, 26-33.	2.8	64
92	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.	3.1	61
93	Synthesis, characterization and investigation of the electrochemical hydrogen storage properties of CuO@CeO <sub>2</sub> nanocomposites synthesized by green method. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 14608-14620.	3.8	61
94	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.	3.8	59
95	Shape control of nickel selenides synthesized by a simple hydrothermal reduction process. <i>Polyhedron</i> , 2012, 31, 210-216.	1.0	58
96	Synthesis and Characterization of Al(OH) <sub>3</sub> , Al <sub>2</sub> O <sub>3</sub> Nanoparticles and Polymeric Nanocomposites. <i>Journal of Cluster Science</i> , 2016, 27, 25-38.	1.7	57
97	Particle size and shape modification of hydroxyapatite nanostructures synthesized via a complexing agent-assisted route. <i>Materials Science and Engineering C</i> , 2014, 40, 288-298.	3.8	55
98	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.	1.1	55
99	Photodegradation and removal of organic dyes using Cu nanostructures, green synthesis and characterization. <i>Separation and Purification Technology</i> , 2017, 173, 27-36.	3.9	53
100	Effect of nickel salt precursors on morphology, size, optical property and type of products (NiSe or Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.7	52
101	Rapid and green combustion synthesis of nanocomposites based on Zn@Co@O nanostructures as photocatalysts for enhanced degradation of acid brown 14 contaminant under sunlight. <i>Separation and Purification Technology</i> , 2022, 280, 119841.	3.9	51
102	Porous hollow Ag/Ag <sub>2</sub> S/Ag <sub>3</sub> PO <sub>4</sub> nanocomposites as highly efficient heterojunction photocatalysts for the removal of antibiotics under simulated sunlight irradiation. <i>Chemosphere</i> , 2021, 274, 129765.	4.2	49
103	Sonochemical synthesis of SrMnO <sub>3</sub> nanoparticles as an efficient and new catalyst for O <sub>2</sub> evolution from water splitting reaction. <i>Ultrasonics Sonochemistry</i> , 2018, 40, 651-663.	3.8	48
104	Effect of copper phthalocyanine (CuPc) on electrochemical hydrogen storage capacity of BaAl <sub>2</sub> O <sub>4</sub> /BaCO <sub>3</sub> nanoparticles. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 15308-15318.	3.8	45
105	Dy <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> and DyFeO <sub>3</sub> 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.	3.8	45
106	New Nanocomposites Based on Li@Fe@Mn Double Spinel and Carbon Self-Doped Graphitic Carbon Nitrides with Synergistic Effect for Electrochemical Hydrogen Storage Application. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 23057-23067.	1.8	45
107	BaMnO <sub>3</sub> nanostructures: Simple ultrasonic fabrication and novel catalytic agent toward oxygen evolution of water splitting reaction. <i>Ultrasonics Sonochemistry</i> , 2020, 61, 104829.	3.8	45
108	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.	4.6	44

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109	Sol-Gel auto-combustion synthesis and physicochemical properties of BaAl <sub>2</sub> O <sub>4</sub> nanoparticles; electrochemical hydrogen storage performance and density functional theory. <i>Renewable Energy</i> , 2017, 114, 1419-1426.	4.3	44
110	Strategic design and electrochemical behaviors of Li-ion battery cathode nanocomposite materials based on AlV <sub>3</sub> O <sub>9</sub> with carbon nanostructures. <i>Composites Part B: Engineering</i> , 2020, 183, 107734.	5.9	44
111	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.	1.1	43
112	Facile fabrication of Ti <sub>4</sub> HgI <sub>6</sub> nanostructures as novel antibacterial and antibiofilm agents and photocatalysts in the degradation of organic pollutants. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 2442-2460.	3.0	43
113	Green facile thermal decomposition synthesis, characterization and electrochemical hydrogen storage characteristics of ZnAl <sub>2</sub> O <sub>4</sub> nanostructure. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 17167-17177.	3.8	42
114	Pechini sol-gel synthesis of Cu <sub>2</sub> O/Li <sub>3</sub> BO <sub>3</sub> and CuO/Li <sub>3</sub> BO <sub>3</sub> nanocomposites for visible light-driven photocatalytic degradation of dye pollutant. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152451.	2.8	42
115	Synthesis and Characterization of Bis(Macrocyclic) Nickel(II) Complexes Containing Aromatic Nitrogen—Nitrogen Linkers Produced by Template Condensation. <i>Transition Metal Chemistry</i> , 2006, 31, 157-162.	0.7	41
116	Simple synthesis and characterization of Ag <sub>2</sub> Cd <sub>4</sub> /AgI nanocomposite as an effective photocatalyst by co-precipitation method. <i>Journal of Molecular Liquids</i> , 2016, 223, 21-28.	2.3	41
117	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.	1.7	41
118	A new simple route for the preparation of nanosized copper selenides under different conditions. <i>Ceramics International</i> , 2014, 40, 8173-8182.	2.3	40
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