

# Azadeh Tadjarodi

## List of Publications by Year in descending order

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79  
papers

2,373  
citations

218592

26  
h-index

214721

47  
g-index

79  
all docs

79  
docs citations

79  
times ranked

3364  
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel electrochemical sensor based on metal-organic framework for electro-catalytic oxidation of L-cysteine. <i>Biosensors and Bioelectronics</i> , 2013, 42, 426-429.	5.3	253
2	Highly efficient simultaneous ultrasonic-assisted adsorption of Pb(II), Cd(II), Ni(II) and Cu (II) ions from aqueous solutions by graphene oxide modified with 2,2'-dipyridylamine: Central composite design optimization. <i>Ultrasonics Sonochemistry</i> , 2016, 32, 265-276.	3.8	204
3	Highly efficient ultrasonic-assisted removal of Hg(II) ions on graphene oxide modified with 2-pyridinecarboxaldehyde thiosemicarbazone: Adsorption isotherms and kinetics studies. <i>Ultrasonics Sonochemistry</i> , 2016, 33, 118-128.	3.8	126
4	A novel magnetic metal organic framework nanocomposite for extraction and preconcentration of heavy metal ions, and its optimization via experimental design methodology. <i>Mikrochimica Acta</i> , 2013, 180, 1073-1084.	2.5	114
5	Preparation and characterization of nano-porous silica aerogel from rice husk ash by drying at atmospheric pressure. <i>Materials Research Bulletin</i> , 2012, 47, 2584-2589.	2.7	86
6	Determination of terbium(III) ions in phosphate rock samples by a Tb <sup>3+</sup> -PVC membrane sensor based on N, N-Dimethyl-N,N'-bis(4-methoxyphenyl)phosphoramidate. <i>Materials Science and Engineering C</i> , 2008, 28, 1489-1494.	3.8	84
7	A flexible mechanochemical route for the synthesis of copper oxide nanorods/nanoparticles/nanowires for supercapacitor applications: The effect of morphology on the charge storage ability. <i>Journal of Alloys and Compounds</i> , 2017, 695, 114-123.	2.8	75
8	Improving hydrogen production via water splitting over Pt/TiO <sub>2</sub> /activated carbon nanocomposite. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 7262-7269.	3.8	72
9	Synthesis and characterization of CdO nanocrystalline structure by mechanochemical method. <i>Materials Letters</i> , 2011, 65, 1025-1027.	1.3	70
10	A magnetic nanocomposite prepared from chelator-modified magnetite (Fe <sub>3</sub> O <sub>4</sub> ) and HKUST-1 (MOF-199) for separation and preconcentration of mercury(II). <i>Mikrochimica Acta</i> , 2016, 183, 1391-1399.	2.5	67
11	One pot microwave synthesis of MCM-41/Cu based MOF composite with improved CO <sub>2</sub> adsorption and selectivity. <i>Microporous and Mesoporous Materials</i> , 2016, 231, 154-162.	2.2	64
12	Solid phase extraction of heavy metal ions based on a novel functionalized magnetic multi-walled carbon nanotube composite with the aid of experimental design methodology. <i>Mikrochimica Acta</i> , 2014, 181, 597-605.	2.5	63
13	Photocatalytic activity of CuO nanoparticles incorporated in mesoporous structure prepared from bis(2-aminonicotinato) copper(II) microflakes. <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 3634-3642.	1.7	57
14	Experimental design to optimize the synthesis of CdO cauliflower-like nanostructure and high performance in photodegradation of toxic azo dyes. <i>Materials Research Bulletin</i> , 2013, 48, 935-942.	2.7	47
15	ZnFe <sub>2</sub> O <sub>4</sub> nanoparticles and a clay encapsulated ZnFe <sub>2</sub> O <sub>4</sub> nanocomposite: synthesis strategy, structural characteristics and the adsorption of dye pollutants in water. <i>RSC Advances</i> , 2015, 5, 56145-56156.	1.7	45
16	Synthesis and property modification of MCM-41 composited with Cu(BDC) MOF for improvement of CO <sub>2</sub> adsorption Selectivity. <i>Journal of CO<sub>2</sub> Utilization</i> , 2016, 14, 126-134.	3.3	41
17	Adsorption of La(III) in aqueous systems by N-(2-hydroxyethyl) salicylaldimine-functionalized mesoporous silica. <i>Materials Research Bulletin</i> , 2015, 61, 113-119.	2.7	39
18	Thermal conductivity studies of novel nanofluids based on metallic silver decorated mesoporous silica nanoparticles. <i>Materials Research Bulletin</i> , 2013, 48, 4150-4156.	2.7	37

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19	Ba <sub>0.69</sub> Sr <sub>0.17</sub> Cd <sub>0.07</sub> Zn <sub>0.07</sub> Fe <sub>12</sub> O <sub>19</sub> nanostructures/conducting polyaniline nanocomposites; synthesis, characterization and microwave absorption performance. <i>Journal of Alloys and Compounds</i> , 2013, 554, 284-292.	2.8	37
20	Solid phase extraction of Cd(II) and Pb(II) ions based on a novel functionalized Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> core-shell nanoparticles with the aid of multivariate optimization methodology. <i>Materials Science and Engineering C</i> , 2015, 49, 416-421.	3.8	37
21	Central composite design optimization of Ce(III) ion removal from aqueous solution using modified SBA-15 mesoporous silica. <i>New Journal of Chemistry</i> , 2016, 40, 5128-5134.	1.4	36
22	Synthesis and Characterization of Cobalt(II), Nickel(II), and Zinc(II) Complexes with N,N'-bis(Trans-1,2,4,5-tetrahydroquinoline-3-yl)ethane-1,2-diamine. <i>Journal of Coordination Chemistry</i> , 2016, 2016, 1-10.	0.8	33
23	Preparation of CdO Rhombus-Like Nanostructure and Its Photocatalytic Degradation of Azo Dyes from Aqueous Solution. <i>Nanomaterials and Nanotechnology</i> , 2014, 4, 16.	1.2	33
24	Fabrication of a PVC membrane samarium(III) sensor based on N,N'-tris(4-pyridyl)trimesic amide as a selectophore. <i>Materials Science and Engineering C</i> , 2013, 33, 870-874.	3.8	30
25	Preparation of AgInS <sub>2</sub> nanoparticles by a facile microwave heating technique; study of effective parameters, optical and photovoltaic characteristics. <i>Applied Surface Science</i> , 2012, 263, 449-456.	3.1	28
26	Speciation analysis of inorganic arsenic in food and water samples by electrothermal atomic absorption spectrometry after magnetic solid phase extraction by a novel MOF-199/modified magnetite nanoparticle composite. <i>RSC Advances</i> , 2016, 6, 113727-113736.	1.7	27
27	Synthesis and Characterization of Magnetic Zeolite Y-Palladium-Nickel Ferrite by Ultrasonic Irradiation and Investigating Its Catalytic Activity in Suzuki-Miyaura Cross-Coupling Reactions. <i>ACS Omega</i> , 2019, 4, 10640-10648.	1.6	27
28	Photocatalytic activity of mesoporous microbricks of ZnO nanoparticles prepared by the thermal decomposition of bis(2-aminonicotinato) zinc (II). <i>Chinese Journal of Catalysis</i> , 2015, 36, 742-749.	6.9	25
29	Application of a facile solid-state process to synthesize the CdO spherical nanoparticles. <i>International Nano Letters</i> , 2013, 3, 1.	2.3	24
30	Facile and fast, one pot microwave synthesis of metal organic framework copper terephthalate and study CO <sub>2</sub> and CH <sub>4</sub> adsorption on it. <i>Journal of Porous Materials</i> , 2015, 22, 1161-1169.	1.3	24
31	Adsorption kinetics, thermodynamic studies, and high performance of CdO cauliflower-like nanostructure on the removal of Congo red from aqueous solution. <i>Journal of Nanostructure in Chemistry</i> , 2013, 3, 1.	5.3	23
32	Experimental demonstration of anomeric effect and structure: X-ray conformational and configurational analysis of N-2-(1,4-dioxane)-N-(p-methylbenzenesulfonyl)-O-(p-methylphenoxy) isourea. <i>Tetrahedron</i> , 2002, 58, 2621-2625.	1.0	22
33	Microwave-assisted synthesis of bismuth oxybromochloride nanoflakes for visible light photodegradation of pollutants. <i>Physica B: Condensed Matter</i> , 2015, 475, 14-20.	1.3	22
34	Novel ferrocene modified poly(amide ether amide)s and investigation of physical and thermal properties. <i>European Polymer Journal</i> , 2007, 43, 498-506.	2.6	21
35	Structural characterization of a copper(II) complex containing oxidative cyclization of N-2-(4-picolyl)-N-(4-methoxyphenyl)thiourea, new ligands of 4-picolylthiourea derivatives and the precursor molecular structure of oxidative cyclization of N-(2-pyridyl)-N-(4-methoxyphenyl)thiourea. <i>Polyhedron</i> , 2007, 26, 4609-4618.	1.0	21
36	A green synthesis of copper oxide nanoparticles by mechanochemical method. <i>Current Chemistry Letters</i> , 2014, 3, 215-220.	0.5	20

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37	Low molecular weight chitosan-cyanocobalamin nanoparticles for controlled delivery of ciprofloxacin: Preparation and evaluation. <i>International Journal of Biological Macromolecules</i> , 2021, 176, 459-467.	3.6	20
38	Solid state preparation and photocatalytic activity of bismuth oxybromide nanoplates. <i>Research on Chemical Intermediates</i> , 2016, 42, 2429-2447.	1.3	19
39	Experimental investigation of thermo-physical properties of platelet mesoporous SBA-15 silica particles dispersed in ethylene glycol and water mixture. <i>Ceramics International</i> , 2013, 39, 7649-7655.	2.3	18
40	Synthesis of ZnFe <sub>2</sub> O <sub>4</sub> nanoparticles with high specific surface area for high-performance supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 23025-23036.	1.1	18
41	Green synthesis and characterization of palladium nanoparticles supported on zeolite Y by sonochemical method, powerful and efficient catalyst for Suzuki-Miyaura coupling of aryl halides with phenylboronic acid. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4594.	1.7	17
42	Preparation, Characterization and Photocatalytic Properties of Ba-Cd-Sr-Ti Doped Fe <sub>3</sub> O <sub>4</sub> Nanohollow Spheres on Removal of Congo Red Under Visible-Light Irradiation. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 219-228.	0.8	15
43	Synthesis and characterization of the special ZnO nanostructure by mechanochemical process. <i>Materials Letters</i> , 2013, 92, 108-110.	1.3	15
44	Mechanochemically prepared BiOCl nanoplates for removal of rhodamine B and pentachlorophenol. <i>Monatshefte für Chemie</i> , 2016, 147, 685-696.	0.9	15
45	Synthesis and characterization of Ni(II) complexes bearing of 2-(1H-benzimidazol-2-yl)phenol derivatives as highly active catalysts for ethylene oligomerization. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4015.	1.7	15
46	Optimization of catalytic activity of sulfated titania for efficient synthesis of isoamyl acetate by response surface methodology. <i>Monatshefte für Chemie</i> , 2015, 146, 1949-1957.	0.9	14
47	Determination of Trichloroacetic Acid (TCAA) Using CdO Nanoparticles Modified Carbon Paste Electrode. <i>Electroanalysis</i> , 2013, 25, 487-492.	1.5	13
48	Innovative one pot synthesis method of the magnetic zinc ferrite nanoparticles with a superior adsorption performance. <i>Materials Letters</i> , 2015, 152, 57-59.	1.3	12
49	Synthesis and study of the pseudocapacitive behavior of heterojunctional NiTiO <sub>3</sub> -based chitosan nanocomposite. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 139, 109309.	1.9	12
50	Solvent free synthesis of ZnO nanostructures and evaluation of their capability for water treatment. <i>Materials Research Bulletin</i> , 2015, 70, 468-477.	2.7	11
51	Synthesis, characterization, and optical properties of lead(II) coordination polymers and nanosize lead oxide core of polymer. <i>Monatshefte für Chemie</i> , 2015, 146, 35-45.	0.9	11
52	Nanomagnetic zirconia-based sulfonic acid (Fe <sub>3</sub> O <sub>4</sub> @ZrO <sub>2</sub> -Pr-SO <sub>3</sub> H): a new, efficient and recyclable solid acid catalyst for the protection of alcohols via HMDS under solvent free conditions. <i>RSC Advances</i> , 2016, 6, 63480-63487.	1.7	11
53	Core shell Fe <sub>3</sub> O <sub>4</sub> @TiO <sub>2</sub> /silica aerogel nanocomposite; synthesis and study of structural, magnetic and photocatalytic properties. <i>Microporous and Mesoporous Materials</i> , 2022, 338, 111757.	2.2	10
54	Synthesis of perovskite-like NiTiO <sub>3</sub> nanoparticles as an electrode material by a rapid solid combustion technique induced by microwave irradiation. <i>Ceramics International</i> , 2019, 45, 18772-18777.	2.3	9

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55	Activation of hexamethyldisilazane (HMDS) by TiO <sub>2</sub> nanoparticles for protection of alcohols and phenols: the effect of the catalyst phase on catalytic activity. <i>Research on Chemical Intermediates</i> , 2018, 44, 2951-2963.	1.3	8
56	Cobalt complexes based on 2-(1H-benzimidazol-2-yl)-phenol derivatives: preparation, spectral studies, DFT calculations and catalytic behavior toward ethylene oligomerization. <i>Journal of Coordination Chemistry</i> , 2017, 70, 1800-1814.	0.8	6
57	Ultrafast synthesis of crystalline Cu <sub>2</sub> ZnSnS <sub>4</sub> nanoparticles by solid state microwave heating technique and study of their electrochemical behavior. <i>Materials Letters</i> , 2018, 225, 9-12.	1.3	6
58	Preparation of nanocomposite with different component ratios of CuWO <sub>4</sub> nanoparticles and nitrogen-doped reduced graphene oxide to compare their supercapacitive properties. <i>Journal of Alloys and Compounds</i> , 2021, 856, 157302.	2.8	6
59	Bis(2-amino-3-methylpyridine)dichloridocobalt(II). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, m1293-m1294.	0.2	5
60	Mixed ammonium silver phosphomolybdate salt nanostructures; solid state synthesis, characterization of driving agent role and photocatalytic property. <i>Materials Letters</i> , 2015, 161, 464-467.	1.3	5
61	N,N-Dimethyl-N,N'-bis(4-methylphenyl)phosphoramidate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2002, 58, o200-o201.	0.2	4
62	Synthesis of tetrakis(carboxyphenyl)porphyrin coated paramagnetic iron oxide nanoparticles via amino acid for photodegradation of methylene blue. <i>Turkish Journal of Chemistry</i> , 2013, 37, 879-888.	0.5	4
63	H <sub>2</sub> S gasochromic effect of mixed ammonium salts of phosphomolybdate nanoparticles synthesized by microwave assisted technique. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 715-723.	4.0	4
64	The novel synthesis of highly water-soluble few-layer graphene nanosheets by a simple one-pot chemical route and without any modification. <i>Materials Chemistry and Physics</i> , 2016, 183, 297-305.	2.0	4
65	Preparation, characterization, DFT calculations and ethylene oligomerization studies of iron(II) complexes bearing 2-(1H-benzimidazol-2-yl)-phenol derivatives. <i>Journal of Coordination Chemistry</i> , 2018, 71, 1180-1192.	0.8	4
66	Synthesis and characterization of Pd nanoparticles anchored on MIL 101(Cr) as a novel and recyclable catalyst for the Suzuki cross-coupling reactions. <i>Microporous and Mesoporous Materials</i> , 2022, 331, 111599.	2.2	4
67	Synthesis and Crystal Structure of a Novel Mixed Ligand Cadmium(II) Complex of Benz-1,3-Thiazoline-2-Thione and 1,10-Phenanthroline. <i>Journal of Chemical Crystallography</i> , 2009, 39, 368-371.	0.5	3
68	Dibromido(2,9-dimethyl-1,10-phenanthroline) <sup>2+</sup> zinc. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, m811-m811.	0.2	3
69	The removal of 2,4-dichlorophenol under visible light irradiation by silver indium sulfide nanoparticles synthesized by microwave. <i>Current Chemistry Letters</i> , 2013, 2, 77-84.	0.5	3
70	Synthesis of ZnMoO <sub>4</sub> nanofibers by ultrasonic bath method and investigation of their supercapacitive properties. <i>Materials Today Communications</i> , 2021, 26, 101794.	0.9	3
71	The effect of annealing temperature on the structure and supercapacitive properties of copper tungstate. <i>Materials Letters</i> , 2021, 293, 129644.	1.3	3
72	Bis(2-amino-3-methylpyridine- <i>N</i> 1)dichloridomercury(II). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, m1099-m1099.	0.2	2

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73	Di- $\mu$ -chlorido-bis[(2-amino-4-methylpyridine- $\hat{N}$ )chloridomercury(II)]. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, m1300-m1301.	0.2	2
74	Bis(4-nitrophenyl)N,N-dimethylphosphoramidate. Acta Crystallographica Section E: Structure Reports Online, 2001, 57, o472-o473.	0.2	1
75	The electronic effects of substituents on $^1J_{\text{PX}}$ ( $\hat{X} = \text{O}, \text{S}, \text{N}, \text{C}$ ) coupling constants and phosphorus chemical shifts; syntheses and spectroscopic investigation of some phosphoramidates. Main Group Chemistry, 2005, 4, 111-119.	0.4	1
76	(Acetato- $\hat{O}$ ) $_2$ (acetato- $\hat{O}$ )bis(2-amino-3-methylpyridine- $\hat{N}$ )cobalt(II). Acta Crystallographica Section E: Structure Reports Online, 2012, 68, m1260-m1261.	0.2	1
77	Design and Characterization of Ticagrelor-Loaded Chitosan Biopolymer to Improve Chemical and Biological Properties of the Drug. ChemistrySelect, 2021, 6, 1741-1747.	0.7	1
78	Designing a novel 3D nanofibrous scaffold based on nanoalloy AuAg NPs (AuAg@ PAN NFs) for osteogenic differentiation of human adipose derived mesenchymal stem cells (hADMSCs). European Polymer Journal, 2022, 167, 111073.	2.6	1
79	The effect of chelating agents on synthesised nano-sized CoAl $_2$ O $_4$ by thermal decomposition. International Journal of Nanomanufacturing, 2010, 5, 376.	0.3	0