

# Yang Zhou

## List of Publications by Year in descending order

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68  
papers

1,942  
citations

257101

24  
h-index

264894

42  
g-index

69  
all docs

69  
docs citations

69  
times ranked

2718  
citing authors

#	ARTICLE	IF	CITATIONS
1	Visual Detection of Copper(II) by Azide- and Alkyne-Functionalized Gold Nanoparticles Using Click Chemistry. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7454-7456.	7.2	408
2	Design of L-Cysteine Functionalized UiO-66 MOFs for Selective Adsorption of Hg(II) in Aqueous Medium. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 46973-46983.	4.0	117
3	Modification of magnetite nanoparticles via surface-initiated atom transfer radical polymerization (ATRP). <i>Chemical Engineering Journal</i> , 2008, 138, 578-585.	6.6	92
4	Boron removal from metallurgical-grade silicon using lithium containing slag. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 2708-2712.	1.5	92
5	Fabrication of porous silicon nanowires by MACE method in HF/H <sub>2</sub> O <sub>2</sub> /AgNO <sub>3</sub> system at room temperature. <i>Nanoscale Research Letters</i> , 2014, 9, 196.	3.1	70
6	Synthesis and Photoluminescence Property of Silicon Carbide Nanowires Via Carbothermic Reduction of Silica. <i>Nanoscale Research Letters</i> , 2010, 5, 252-256.	3.1	56
7	Experimental and DFT study of selective adsorption mechanisms of Pb(II) by UiO-66-NH <sub>2</sub> modified with 1,8-dihydroxyanthraquinone. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 83, 111-122.	2.9	53
8	Growing hyperbranched polyglycerols on magnetic nanoparticles to resist nonspecific adsorption of proteins. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008, 67, 122-126.	2.5	51
9	LiBH <sub>4</sub> for hydrogen storage - New perspectives. <i>Nano Materials Science</i> , 2020, 2, 109-119.	3.9	41
10	Selective recovery of silver from aqueous solutions by poly (glycidyl methacrylate) microsphere modified with trithiocyanuric acid. <i>Journal of Molecular Liquids</i> , 2018, 254, 340-348.	2.3	38
11	Synthesis of spherical mesoporous silica materials by pseudomorphic transformation of silica fume and its Pb <sup>2+</sup> removal properties. <i>Microporous and Mesoporous Materials</i> , 2016, 222, 192-201.	2.2	34
12	Silica nanoparticles functionalized via click chemistry and ATRP for enrichment of Pb(II) ion. <i>Nanoscale Research Letters</i> , 2012, 7, 485.	3.1	33
13	Fabrication of p-type porous silicon nanowire with oxidized silicon substrate through one-step MACE. <i>Journal of Solid State Chemistry</i> , 2014, 213, 242-249.	1.4	31
14	Selective removal of heavy metal ions from aqueous solutions with surface functionalized silica nanoparticles by different functional groups. <i>Journal of Central South University</i> , 2014, 21, 3575-3579.	1.2	30
15	Preparation of 2-Aminothiazole-Functionalized Poly(glycidyl methacrylate) Microspheres and Their Excellent Gold Ion Adsorption Properties. <i>Polymers</i> , 2018, 10, 159.	2.0	30
16	Adsorption behavior of Pd(II) ions from aqueous solution onto pyromellitic acid modified-UiO-66-NH <sub>2</sub> . <i>Arabian Journal of Chemistry</i> , 2020, 13, 7007-7019.	2.3	30
17	Functionalization of nanosilica via guanidinium ionic liquid for the recovery of gold ions from aqueous solutions. <i>Journal of Molecular Liquids</i> , 2018, 256, 183-190.	2.3	29
18	Sonication-induced scission of molecular bottlebrushes: Implications of the "hairy" architecture. <i>Polymer</i> , 2016, 84, 178-184.	1.8	28

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19	Functionalized magnetic core-shell Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> nanoparticles for sensitive detection and removal of Hg <sup>2+</sup> . <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	27
20	Using silica fume as silica source for synthesizing spherical ordered mesoporous silica. <i>Materials Letters</i> , 2013, 92, 129-131.	1.3	27
21	Polydopamine-assisted deposition of CuS nanoparticles on cotton fabrics for photocatalytic and photothermal conversion performance. <i>Cellulose</i> , 2020, 27, 8443-8455.	2.4	27
22	Oxygen vacancy enhanced Co <sub>3</sub> O <sub>4</sub> /ZnO nanocomposite with small sized and loose structure for sensitive electroanalysis of Hg(II) in subsidence area water. <i>Sensors and Actuators B: Chemical</i> , 2021, 326, 128967.	4.0	26
23	Highly sensitive and selective OFF-ON fluorescent sensor based on functionalized Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> nanoparticles for detection of Zn <sup>2+</sup> in acetonitrile media. <i>Applied Surface Science</i> , 2013, 276, 705-710.	3.1	25
24	Preparation and characterization of antifouling thermosensitive magnetic nanoparticles for applications in biomedicine. <i>Materials Science and Engineering C</i> , 2009, 29, 1196-1200.	3.8	24
25	Preparation and Characterization of Stimuli-Responsive Magnetic Nanoparticles. <i>Nanoscale Research Letters</i> , 2008, 3, .	3.1	23
26	Simultaneous fluorescence response and adsorption of functionalized Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> nanoparticles to Cd <sup>2+</sup> , Zn <sup>2+</sup> and Cu <sup>2+</sup> . <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 459, 240-246.	2.3	23
27	Layer-by-Layer self-assembly of polyaspartate and Poly(ethyleneimine) on magnetic nanoparticles: Characterization and adsorption of protein. <i>Current Applied Physics</i> , 2011, 11, 1337-1342.	1.1	21
28	Texturing a pyramid-like structure on a silicon surface via the synergetic effect of copper and Fe(III) in hydrofluoric acid solution. <i>Applied Surface Science</i> , 2016, 372, 36-41.	3.1	21
29	1,3-dipolar cycloaddition as a general route for functionalization of Fe <sub>3</sub> O <sub>4</sub> nanoparticles. <i>Nanotechnology</i> , 2008, 19, 175601.	1.3	18
30	Influence of fabrication parameter on the nanostructure and photoluminescence of highly doped p-porous silicon. <i>Journal of Luminescence</i> , 2014, 146, 76-82.	1.5	18
31	Experimental and DFT studies on the selective adsorption of Pd(II) from wastewater by pyromellitic-functionalized poly(glycidyl methacrylate) microsphere. <i>Journal of Molecular Liquids</i> , 2020, 300, 112296.	2.3	18
32	Functionalization of hydrophobic nonwoven cotton fabric for oil and water repellency. <i>SN Applied Sciences</i> , 2021, 3, 1.	1.5	18
33	Numerical simulation and experimental verification of vacuum directional solidification process for multicrystalline silicon. <i>Vacuum</i> , 2015, 116, 96-103.	1.6	16
34	Nanosilica-supported thiosemicarbazide-glutaraldehyde polymer for selective Au(III) removal from aqueous solution. <i>RSC Advances</i> , 2017, 7, 55215-55223.	1.7	16
35	Preparation and characterization of smart polymer brush-modified magnetic nanoparticles for biomedicine application. <i>Journal of Nanoparticle Research</i> , 2009, 11, 909-916.	0.8	15
36	Cr(VI) Removal from Aqueous by Adsorption on Amine-Functionalized Mesoporous Silica Prepared from Silica Fume. <i>Journal of Chemistry</i> , 2014, 2014, 1-10.	0.9	15

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37	Versatile functionalization of Fe <sub>3</sub> O <sub>4</sub> nanoparticles via RAFT polymerization and click chemistry. <i>Applied Surface Science</i> , 2011, 257, 10384-10389.	3.1	14
38	Surface-functionalized pomelo peel-derived biochar with mercapto-1,2,4-triazole for selective elimination of toxic Pb (II) in aqueous solutions. <i>Advanced Powder Technology</i> , 2021, 32, 1013-1022.	2.0	14
39	Kinetics of iron removal from metallurgical grade silicon with pressure leaching. <i>Rare Metals</i> , 2011, 30, 688-694.	3.6	13
40	Removal of Iron from Metallurgical Grade Silicon with Pressure Leaching. <i>Materials Science Forum</i> , 0, 675-677, 873-876.	0.3	13
41	Loading CuFe <sub>2</sub> O <sub>4</sub> onto ceramic fabric for photocatalytic degradation of methylene blue under visible light irradiation. <i>Ceramics International</i> , 2022, 48, 1256-1263.	2.3	13
42	Preparation and characterization of La <sub>0.9</sub> Sr <sub>0.1</sub> Ga <sub>0.8</sub> Mg <sub>0.2</sub> O <sub>3</sub> thin film electrolyte deposited by RF magnetron sputtering on the porous anode support for IT-SOFC. <i>Vacuum</i> , 2012, 86, 1203-1209.	1.6	11
43	Preparation of Cu <sup>2+</sup> /NTA-derivatized branch polyglycerol magnetic nanoparticles for protein adsorption. <i>Journal of Nanoparticle Research</i> , 2010, 12, 2467-2472.	0.8	10
44	Surface-induced reversible addition-fragmentation chain-transfer (RAFT) polymerization on magnetic nanoparticles to resist nonspecific adsorption of proteins. <i>Chemical Engineering Journal</i> , 2011, 173, 873-878.	6.6	10
45	Preparation of [Amine-Terminated Generation 5 Poly(amidoamine)]-graft-Poly(lactic-co-glycolic acid) Electrospun Nanofibrous Mats for Scaffold-Mediated Gene Transfection. <i>ACS Applied Bio Materials</i> , 2020, 3, 346-357.	2.3	10
46	A Fluorescent Sensor for Zinc Detection and Removal Based on Core-Shell Functionalized Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> Nanoparticles. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-7.	1.5	9
47	Selective Zn (II) chemosensor based on di(2-picoly)amine functionalized inorganic/organic hybrid magnetic network. <i>Chemical Engineering Journal</i> , 2014, 244, 75-81.	6.6	9
48	Catalytic Oxidation of Polyethylene Glycol Dodecyl Ether to Corresponding Carboxylic Acid by Gold, Palladium (Mono and Bimetallic) Nanoparticles Supported on Carbon. <i>Catalysis Letters</i> , 2007, 118, 86-90.	1.4	8
49	Preparation of onion-like Pd-Bi-Au/C trimetallic catalyst and their application. <i>Journal of Sol-Gel Science and Technology</i> , 2008, 47, 182-186.	1.1	8
50	An eco-friendly route for template-free synthesis of high specific surface area mesoporous CeO <sub>2</sub> powders and their adsorption for acid orange 7. <i>RSC Advances</i> , 2019, 9, 22366-22375.	1.7	8
51	Transparency-tunable and moderate-temperature healable thermoplastic polyurethane elastomer based on bisphenol A chain extender. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49794.	1.3	8
52	An inorganic/organic hybrid magnetic network as a colorimetric fluorescent nanosensor and its recognizing behavior toward Hg <sup>2+</sup> . <i>Applied Surface Science</i> , 2017, 423, 1103-1110.	3.1	7
53	Characterization and catalytic activity of lead-promoted palladium nanoparticle catalysts. <i>Chemical Engineering Journal</i> , 2009, 150, 237-241.	6.6	5
54	Cleavable porous silicon based hybrid material for pre-enrichment of trace heavy metal ions. <i>Applied Surface Science</i> , 2012, 258, 5538-5542.	3.1	5

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55	Synthesis of mesoporous silica materials (MCM-41) using silica fume as the silica source in a binary surfactant system assisted by post-hydrothermal treatment and its Pb <sup>2+</sup> removal properties. Canadian Journal of Chemical Engineering, 2017, 95, 46-54.	0.9	5
56	Effects of biomass diatom frustule on structure and properties of polyurethane elastomer. Journal of Applied Polymer Science, 2020, 137, 48452.	1.3	5
57	Amorphous silica nanoparticles induce tumorigenesis via regulating ATP5H/SOD1-related oxidative stress, oxidative phosphorylation and EIF4G2/PABPC1-associated translational initiation. PeerJ, 2019, 7, e6455.	0.9	4
58	A Highly Sensitive and Efficient Functionalized Magnetic Chemosensor for Cu <sup>2+</sup> Removal. Physics Procedia, 2012, 25, 2125-2130.	1.2	3
59	Effect of Binary Surfactant System on Morphologies and Structural Properties of Mesoporous Silica Materials Prepared from Silica Fume. Integrated Ferroelectrics, 2013, 147, 115-122.	0.3	3
60	Preparation of Large-Area Porous Silicon through Cu-Assisted Chemical Etching. Materials Science Forum, 0, 847, 78-83.	0.3	3
61	Colorimetric Fluorescent Nanosensor Based on Hexamethylene Diisocyanate for Fluorescent Responses and Adsorption of Heavy Metal Ions. Journal of Nanoscience and Nanotechnology, 2016, 16, 2853-2860.	0.9	3
62	Interfacial properties of trithiocyanuric acid functionalized cellulose nanofibers for efficient recovery of gold ions from aqueous solution. Cellulose, 2021, 28, 937-947.	2.4	3
63	Organic-Hybrid Silica Nanoparticles as Adsorbent for Pb (II) Ion. Advanced Materials Research, 2012, 465, 146-149.	0.3	2
64	A Highly Sensitive and Efficient Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> Nanoparticles Chemosensor for Cu <sup>2+</sup> Removal. Integrated Ferroelectrics, 2013, 147, 110-114.	0.3	2
65	Immobilization of Metal Ions on Porous Silicon for Gas Sensor. Integrated Ferroelectrics, 2012, 137, 85-90.	0.3	1
66	Cleaved disulfide cross-linking functionalized silica nanoparticles for enrichment of Cd (II). Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 395, 18-23.	2.3	1
67	Thermal Healing of Copolyacrylate Elastomer Based on Catalyst-Free Transketalization. Macromolecular Chemistry and Physics, 2021, 222, 2100042.	1.1	1
68	A Nanosensor for Naked-Eye Identification and Adsorption of Cadmium Ion Based on Core-Shell Magnetic Nanospheres. Materials, 2020, 13, 3678.	1.3	0