

# Yanzhao Yang

## List of Publications by Year in descending order

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102  
papers

2,365  
citations

201575

27  
h-index

265120

42  
g-index

103  
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103  
docs citations

103  
times ranked

2961  
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards highly active heterogeneous catalysts <i>via</i> a sequential noncovalent bonding strategy. <i>New Journal of Chemistry</i> , 2022, 46, 1543-1550.	1.4	1
2	Superamphiphilic Chitosan Cryogels for Continuous Flow Separation of Oil-In-Water Emulsions. <i>ACS Omega</i> , 2022, 7, 5937-5945.	1.6	8
3	Synthesis of temperature-responsive ionic liquids and study on the behavior and mechanism of Au(III) extraction from hydrochloric acid solutions. <i>Hydrometallurgy</i> , 2022, 211, 105859.	1.8	2
4	Extraction and separation on Au(III) and Pt(IV) from HCl media using novel piperazine-based ionic liquid as an ionic exchanger. <i>Journal of Molecular Liquids</i> , 2022, 353, 118846.	2.3	9
5	Toward green and efficient recycling of Au(III), Pd(II) and Pt(IV) from acidic medium using UCST-type ionic liquid. <i>Separation and Purification Technology</i> , 2022, 298, 121620.	3.9	8
6	Ceria-based peroxidase-mimicking nanozyme with enhanced activity: A coordination chemistry strategy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 610, 125715.	2.3	21
7	Dynamic emulsion droplets enabled by interfacial assembly of azobenzene-functionalized nanoparticles under light and magnetic field. <i>Journal of Colloid and Interface Science</i> , 2021, 583, 586-593.	5.0	3
8	Extraction of platinum(IV) by hydrophobic deep eutectic solvents based on trioctylphosphine oxide. <i>Hydrometallurgy</i> , 2021, 199, 105521.	1.8	28
9	Extraction and separation of Pd(II)/Pt(IV) by neutral sulfur-containing extractant from hydrochloric acid medium. <i>New Journal of Chemistry</i> , 2021, 45, 19467-19475.	1.4	7
10	Homogenous Liquid-Liquid Extraction of Au(III) from Acidic Medium by Ionic Liquid Thermomorphic Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 4894-4902.	3.2	13
11	Synergistic regulation of polysulfides immobilization and conversion by MOF-derived CoP-HNC nanocages for high-performance lithium-sulfur batteries. <i>Nano Energy</i> , 2021, 85, 106011.	8.2	68
12	Extraction of gold(III) using novel gemini-type benzimidazole ionic liquid from hydrochloric acid medium. <i>Separation and Purification Technology</i> , 2021, 276, 119312.	3.9	9
13	Behavior, mechanism and equilibrium studies of Au(III) extraction with an ionic liquid [C <sub>4</sub> -6-C <sub>4</sub> Blm]Br <sub>2</sub> . <i>Dalton Transactions</i> , 2020, 49, 504-510.	1.6	5
14	Controlled Synthesis of Au Chiral Propellers from Seeded Growth of Au Nanoplates for Chiral Differentiation of Biomolecules. <i>Journal of Physical Chemistry C</i> , 2020, 124, 24306-24314.	1.5	35
15	Anisotropic Assembly of Nanocrystal/Molecular Hierarchical Superlattices Decoding from Triamide Triarylamines Supramolecular Networks. <i>Small</i> , 2020, 16, 2005701.	5.2	10
16	ESP-ALIE Analysis as a Theoretical Tool for Identifying the Coordination Atoms of Possible Multisite Extractants: Validation and Prediction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14353-14364.	3.2	7
17	Faceted Colloidal Au/Fe <sub>3</sub> O <sub>4</sub> Binary Supracrystals Dictated by Intrinsic Lattice Structures and Their Collective Optical Properties. <i>Journal of Physical Chemistry C</i> , 2020, 124, 14775-14786.	1.5	14
18	Controlled syntheses of monodispersed metal oxide nanocrystals from bulk metal oxide materials. <i>CrystEngComm</i> , 2020, 22, 4790-4796.	1.3	7

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19	Gold(III) separation from acidic medium by amine-based ionic liquid. <i>Journal of Molecular Liquids</i> , 2020, 304, 112735.	2.3	24
20	The contributions of distinct Pd surface sites in palladium-ceria catalysts to low-temperature CO oxidation. <i>CrystEngComm</i> , 2020, 22, 1251-1260.	1.3	8
21	Extraction and stripping of platinum (IV) from acidic chloride media using guanidinium ionic liquid. <i>Journal of Molecular Liquids</i> , 2019, 293, 111040.	2.3	20
22	Hierarchical Sheet-on-Sphere Heterostructures as Supports for Metal Nanoparticles: A Robust Catalyst System. <i>Catalysis Letters</i> , 2019, 149, 2492-2499.	1.4	1
23	Recovery of gold from hydrochloric medium by deep eutectic solvents based on quaternary ammonium salts. <i>Hydrometallurgy</i> , 2019, 188, 264-271.	1.8	35
24	Dynamic covalent chemistry steers synchronizing nanoparticle self-assembly with interfacial polymerization. <i>Communications Chemistry</i> , 2019, 2, .	2.0	12
25	Bimetallic Oxide Hollow Structures Induced by Surface Coordination of ZIF-67. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 4920-4926.	1.0	4
26	Synthesis of catalytically active bimetallic nanoparticles within solution-processable metal-organic-framework scaffolds. <i>CrystEngComm</i> , 2019, 21, 3954-3960.	1.3	7
27	Buckling of Two-Dimensional Colloidal Nanoplatelets in Confined Space To Design Heterogeneous Catalysts. <i>Chemistry of Materials</i> , 2019, 31, 3812-3817.	3.2	8
28	Revealing the Role of Chain Length of Ligands on Gold Nanoparticles Surface in the Process for Catalysis Reduction of 4-Nitrophenol. <i>Catalysis Letters</i> , 2019, 149, 2110-2118.	1.4	9
29	A one-pot general strategy towards the synthesis of core-satellite suprastructures. <i>CrystEngComm</i> , 2019, 21, 1335-1339.	1.3	1
30	Removal of platinum (IV) from hydrochloric acid medium with OMImT: Theoretical and experimental evidences for a neutral complexing mechanism. <i>Journal of Molecular Liquids</i> , 2019, 293, 111529.	2.3	2
31	Frogspawn inspired hollow Fe <sub>3</sub> C@N-C as an efficient sulfur host for high-rate lithium-sulfur batteries. <i>Nanoscale</i> , 2019, 11, 21532-21541.	2.8	58
32	Recovery of Au(III) from Acidic Chloride Media by Homogenous Liquid-Liquid Extraction with UCST-Type Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 19975-19983.	3.2	29
33	Equilibrium, thermodynamics and kinetics study on Au(III) extraction by gemini surfactant with different spacer length. <i>Separation Science and Technology</i> , 2019, 54, 985-995.	1.3	6
34	Separation of Pt(IV), Pd(II), Ru(III), and Rh(III) from chloride medium using liquid-liquid extraction with mixed imidazolium-based ionic liquids. <i>Separation Science and Technology</i> , 2018, 53, 2064-2073.	1.3	37
35	Insight Investigation of Active Palladium Surface Sites in Palladium-Ceria Catalysts for NO + CO Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 13614-13624.	4.0	22
36	Pretreatment Effect on Ceria-Supported Gold Nanocatalysts for CO Oxidation: Importance of the Gold-Ceria Interaction. <i>Energy Technology</i> , 2018, 6, 379-390.	1.8	14

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37	Crystal plane dependent dopant migration that boosts catalytic oxidation. <i>Catalysis Science and Technology</i> , 2018, 8, 6084-6090.	2.1	3
38	Influence of Chitosan on the Microstructured Au/CeO <sub>2</sub> Catalyst: An Enhanced Catalytic Performance for CO Oxidation. <i>Catalysis Letters</i> , 2017, 147, 1322-1332.	1.4	5
39	Extraction behaviour and mechanism of Pt(IV) and Pd(II) by liquid-liquid extraction with an ionic liquid [HBBIm]Br. <i>Dalton Transactions</i> , 2017, 46, 7210-7218.	1.6	24
40	Effect of spacer length of ionic liquid-type imidazolium gemini surfactant-based water-in-oil microemulsion for the extraction of gold from hydrochloric acid. <i>New Journal of Chemistry</i> , 2017, 41, 6180-6186.	1.4	15
41	Extraction and separation of multiple platinum group metals from hydrochloric acid solution with sole 1-hexyl-3-methylimidazole-2-thione using microextraction method. <i>Hydrometallurgy</i> , 2017, 174, 167-174.	1.8	17
42	Behavior and mechanism investigation of separating Pt and Ir by liquid-liquid extraction using a mixed [C <sub>6</sub> bet]Br/[C <sub>6</sub> mim][NTF <sub>2</sub> ] system. <i>New Journal of Chemistry</i> , 2017, 41, 8985-8992.	1.4	17
43	Behavior, mechanism, and equilibrium studies of rhodium(I) extraction from hydrochloric acid with HImT. <i>New Journal of Chemistry</i> , 2017, 41, 10054-10061.	1.4	6
44	Titanium tetrachloride for silver nanoparticle-humic acid composite contaminant removal in coagulation-ultrafiltration hybrid process: floc property and membrane fouling. <i>Environmental Science and Pollution Research</i> , 2017, 24, 1757-1768.	2.7	14
45	Recovery of Ru(III) from hydrochloric acid by cloud point extraction with 2-Mercaptobenzothiazole-functionalized ionic liquid. <i>Chemical Engineering Journal</i> , 2017, 308, 370-376.	6.6	17
46	Gold Extraction through Vesicles Self-Assembled by Cationic Gemini Surfactant and Sodium Deoxycholate. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 8207-8214.	1.8	16
47	A 2-mercaptobenzothiazole-functionalized ionic liquid for selective extraction of Pd(II) from a hydrochloric acid medium. <i>RSC Advances</i> , 2016, 6, 63006-63012.	1.7	13
48	The effect of copper species in copper-ceria catalysts: structure evolution and enhanced performance in CO oxidation. <i>RSC Advances</i> , 2016, 6, 46966-46971.	1.7	12
49	Mn <sub>3</sub> O <sub>4</sub> doped with highly dispersed Zr species: a new non-noble metal oxide with enhanced activity for three-way catalysis. <i>New Journal of Chemistry</i> , 2016, 40, 10108-10115.	1.4	16
50	CeO <sub>2</sub> decorated CuO hierarchical composites as inverse catalyst for enhanced CO oxidation. <i>RSC Advances</i> , 2016, 6, 102931-102937.	1.7	12
51	Extraction of palladium (II) by a silicone ionic liquid-based microemulsion system from chloride medium. <i>Separation and Purification Technology</i> , 2016, 169, 289-295.	3.9	22
52	Facile synthesis of Mn-doped Fe <sub>2</sub> O <sub>3</sub> nanostructures: enhanced CO catalytic performance induced by manganese doping. <i>New Journal of Chemistry</i> , 2016, 40, 3491-3498.	1.4	29
53	Ionic-Liquid-Type Imidazolium Gemini Surfactant Based Water-in-Oil Microemulsion for Extraction of Gold from Hydrochloric Acid Medium. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 2790-2797.	1.8	43
54	Stable monodisperse colloidal spherical gold nanoparticles formed by an imidazolium gemini surfactant-based water-in-oil microemulsion with excellent catalytic performance. <i>RSC Advances</i> , 2016, 6, 28156-28164.	1.7	13

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55	The promoting influence of nickel species in the controllable synthesis and catalytic properties of nickel- $\text{CeO}_2$ catalysts. <i>Catalysis Science and Technology</i> , 2016, 6, 2427-2434.	2.1	28
56	Morphology Control, Growth Mechanism, and Enhanced Catalytic Activity of Mesoporous $\text{CeO}_2$ Microparticles. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 5209-5217.	1.0	1
57	One-step synthesis of Ni-doped $\text{SnO}_2$ nanospheres with enhanced lithium ion storage performance. <i>New Journal of Chemistry</i> , 2015, 39, 130-135.	1.4	36
58	Designed synthesis and formation mechanism of $\text{CeO}_2$ hollow nanospheres and their facile functionalization with Au nanoparticles. <i>CrystEngComm</i> , 2015, 17, 4850-4858.	1.3	24
59	The Effect of Exposed Facets of Ceria to the Nickel Species in Nickel-Ceria Catalysts and Their Performance in a NO + CO Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 26839-26849.	4.0	94
60	Hierarchical polymorphic $\text{MnCO}_3$ series induced by cobalt doping via a one-pot hydrothermal route for CO catalytic oxidation. <i>RSC Advances</i> , 2015, 5, 33615-33622.	1.7	15
61	One-step synthesis of samarium-doped ceria and its CO catalysis. <i>Bulletin of Materials Science</i> , 2015, 38, 1149-1154.	0.8	14
62	Extraction and Stripping of Platinum from Hydrochloric Acid Medium by Mixed Imidazolium Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 705-711.	1.8	50
63	Facile Preparation of $\text{M}_n$ -Doped ( $\text{M} = \text{Cu}, \text{Co}, \text{Ni}, \text{Mn}$ ) Hierarchically Mesoporous $\text{CeO}_2$ Nanoparticles with Enhanced Catalytic Activity for CO Oxidation. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 969-976.	1.0	23
64	Enhanced Catalytic Performance of $(\text{CuO})_x/(\text{Ce}_{0.9}\text{Cu}_{0.1}\text{O})_2$ Nanospheres: Combined Contribution of the Synergistic Effect and Surface Defects. <i>ChemPlusChem</i> , 2015, 80, 886-894.	1.3	16
65	Solvothermal synthesis of 1D nanostructured $\text{Mn}_2\text{O}_3$ : effect of $\text{Ni}^{2+}$ and $\text{Co}^{2+}$ substitution on the catalytic activity of nanowires. <i>RSC Advances</i> , 2015, 5, 66271-66277.	1.7	44
66	Construction of $\text{Ce}(\text{OH})_4$ nanostructures from 1D to 3D by a mechanical force-driven method. <i>CrystEngComm</i> , 2015, 17, 2690-2697.	1.3	17
67	Solvent extraction of palladium( $\text{Pd}(\text{II})$ ) with newly synthesized asymmetric branched alkyl sulfoxides from hydrochloric acid. <i>RSC Advances</i> , 2015, 5, 66376-66383.	1.7	15
68	Poly-assisted template-free synthesis of novel double-shelled $\text{Co}_3\text{O}_4$ yolk-shell submicrospheres with excellent electrochemical properties. <i>RSC Advances</i> , 2015, 5, 85964-85968.	1.7	2
69	Solone behavior towards palladium( $\text{Pd}(\text{II})$ ) extraction with hydrophobic ionic liquids and mechanism studies. <i>RSC Advances</i> , 2015, 5, 63087-63094.	1.7	24
70	The application of ionic liquid-based system in the extraction of palladium: synthesis, characterization and computer calculation of palladium complexes. <i>RSC Advances</i> , 2014, 4, 57009-57015.	1.7	23
71	Mesoporous $\text{CeO}_2$ nanoparticles assembled by hollow nanostructures: formation mechanism and enhanced catalytic properties. <i>CrystEngComm</i> , 2014, 16, 8777-8785.	1.3	31
72	Copper doped ceria nanospheres: surface defects promoted catalytic activity and a versatile approach. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5662.	5.2	85

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73	Template-free synthesis of core-shell CeO <sub>2</sub> nanospheres. RSC Advances, 2014, 4, 11357.	1.7	15
74	A simple and practical synthesis route for preparation of Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C by the rheological phase method using composite chelating reagents. New Journal of Chemistry, 2014, 38, 2265-2268.	1.4	9
75	Determination of long-chained alkylimidazolium ionic liquids based on the hypochromic effect. Analytical Methods, 2014, 6, 3758.	1.3	5
76	Synthesis of Co/Ni Unitary or Binary Doped CeO <sub>2</sub> Mesoporous Nanospheres and Their Catalytic Performance for CO Oxidation. European Journal of Inorganic Chemistry, 2014, 2014, 5370-5377.	1.0	18
77	Zr-doped CeO <sub>2</sub> Hollow slightly truncated nano-octahedrons: One-pot synthesis, characterization and their application in catalysis of CO oxidation. Crystal Research and Technology, 2014, 49, 383-392.	0.6	20
78	Magnesium Aluminum Spinel as an Acid-Base Catalyst for Transesterification of Diethyl Carbonate with Dimethyl Carbonate. Catalysis Letters, 2014, 144, 1602-1608.	1.4	13
79	The optimization of aqueous two-phase extraction of lysozyme from crude hen egg white using response surface methodology. Journal of Chemical Technology and Biotechnology, 2013, 88, 415-421.	1.6	15
80	Mesoporous-shelled CeO <sub>2</sub> hollow nanospheres synthesized by a one-pot hydrothermal route and their catalytic performance. CrystEngComm, 2013, 15, 7769.	1.3	44
81	Facile synthesis of novel MnO <sub>x</sub> nano-structures and their catalytic performance on CO oxidation. CrystEngComm, 2013, 15, 5150.	1.3	28
82	One-Pot Synthesis of Mn-Doped CeO <sub>2</sub> Nanospheres for CO Oxidation. European Journal of Inorganic Chemistry, 2013, 2013, 4443-4449.	1.0	58
83	Extraction of Au(III) by ionic liquid from hydrochloric acid medium. Separation and Purification Technology, 2013, 120, 367-372.	3.9	33
84	A facile hydrothermal synthesis of 3D flowerlike CeO <sub>2</sub> via a cerium oxalate precursor. Journal of Materials Chemistry A, 2013, 1, 6942.	5.2	68
85	Unusual properties of nanostructured Ce <sub>1-x</sub> Co <sub>x</sub> O <sub>2-y</sub> , Ce <sub>1-x</sub> Ni <sub>x</sub> O <sub>2-y</sub> and Ce <sub>1-(x+y)</sub> Co <sub>x</sub> Ni <sub>y</sub> O <sub>2-z</sub> : structural studies and catalytic activity. CrystEngComm, 2013, 15, 1370.	1.3	33
86	Zn-doped In <sub>2</sub> O <sub>3</sub> nanostructures: preparation, structure and gas-sensing properties. CrystEngComm, 2012, 14, 1135-1142.	1.3	87
87	Microemulsion Extraction of Gold(III) from Hydrochloric Acid Medium Using Ionic Liquid as Surfactant and Extractant. Industrial & Engineering Chemistry Research, 2012, 51, 16438-16443.	1.8	43
88	Phase-controlled synthesis of monodispersed porous In <sub>2</sub> O <sub>3</sub> nanospheres via an organic acid-assisted hydrothermal process. CrystEngComm, 2011, 13, 5011.	1.3	35
89	Controllable synthesis of <sup>13</sup> C-AlOOH micro/nanoarchitectures via a one-step solution route. CrystEngComm, 2011, 13, 2445.	1.3	24
90	Separation of Gallium and Aluminum from HCl Solution by Microemulsion. Separation Science and Technology, 2011, 46, 1936-1940.	1.3	3

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91	A mild solution strategy for the synthesis of mesoporous CeO <sub>2</sub> nanoflowers derived from Ce(HCOO) <sub>3</sub> . CrystEngComm, 2011, 13, 4950.	1.3	40
92	Fabrication of three dimensional CeO <sub>2</sub> hierarchical structures: Precursor template synthesis, formation mechanism and properties. CrystEngComm, 2011, 13, 2418.	1.3	54
93	Monodisperse CeO <sub>2</sub> sub- $\mu$ m spherical aggregates with controllable building blocks. Crystal Research and Technology, 2011, 46, 201-204.	0.6	4
94	Extraction of gold(III) from hydrochloric acid solutions by CTAB/n-heptane/iso-amyl alcohol/Na <sub>2</sub> SO <sub>3</sub> microemulsion. Journal of Hazardous Materials, 2011, 186, 2166-2170.	6.5	54
95	Preparation of CeO <sub>2</sub> hollow spheres via a surfactant-assisted solvothermal route. Journal of Materials Science, 2010, 45, 4158-4162.	1.7	12
96	Mesoporous CeO <sub>2</sub> Hollow Spheres Prepared by Ostwald Ripening and Their Environmental Applications. European Journal of Inorganic Chemistry, 2010, 2010, 3354-3359.	1.0	110
97	Fabrication of Monodisperse CeO <sub>2</sub> Hollow Spheres Assembled by Nano-octahedra. Crystal Growth and Design, 2010, 10, 291-295.	1.4	121
98	ZnO Nanoparticles Prepared by Thermal Decomposition of Batch Supercritical Antisolvent Processed Zinc Acetate. Journal of Chemical Engineering of Japan, 2009, 42, 117-125.	0.3	4
99	Synthesis and characterization of 5-bromo-3-sec-butyl-6-methyluracil. Frontiers of Chemistry in China: Selected Publications From Chinese Universities, 2008, 3, 152-156.	0.4	6
100	Control of the sizes of zinc sulfide particles by extractant. Journal of Materials Science, 2004, 39, 659-661.	1.7	5
101	WICKER-SHAPED SILVER PARTICLES PREPARED BY EXTRACTION INTERFACE REDUCTION. , 2002, , .		0
102	Kinetics of Oxidation Processes on Lead Electrode in H <sub>2</sub> SO <sub>4</sub> : III. To Study the Growth of the PbO Layer by Linear Sweep Voltammetry. Journal of the Electrochemical Society, 1996, 143, 1157-1160.	1.3	15