

Yongjian Ai

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55
papers

921
citations

19
h-index

28
g-index

56
ext. papers

1,315
ext. citations

7.8
avg, IF

4.68
L-index

#	Paper	IF	Citations
55	Porous silica-encapsulated and magnetically recoverable Rh NPs: a highly efficient, stable and green catalyst for catalytic transfer hydrogenation with slow-release of stoichiometric hydrazine in water. <i>Green Chemistry</i> , 2017 , 19, 3400-3407	10	64
54	Stretchable Multiresponsive Hydrogel with Actuable, Shape Memory, and Self-Healing Properties. <i>Advanced Science</i> , 2018 , 5, 1800450	13.6	63
53	Engineering of Hydrogel Materials with Perfusable Microchannels for Building Vascularized Tissues. <i>Small</i> , 2020 , 16, e1902838	11	63
52	Microfluidics for Biosynthesizing: from Droplets and Vesicles to Artificial Cells. <i>Small</i> , 2020 , 16, e1903940	11	55
51	Self-Polymerized Dopamine-Decorated Au NPs and Coordinated with Fe-MOF as a Dual Binding Sites and Dual Signal-Amplifying Electrochemical Aptasensor for the Detection of CEA. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 5500-5510	9.5	44
50	Bismuth iron oxide nanocomposite supported on graphene oxides as the high efficient, stable and reusable catalysts for the reduction of nitroarenes under continuous flow conditions. <i>Chemical Engineering Journal</i> , 2017 , 314, 328-335	14.7	40
49	Egg-like magnetically immobilized nanospheres: A long-lived catalyst model for the hydrogen transfer reaction in a continuous-flow reactor. <i>Nano Research</i> , 2018 , 11, 287-299	10	38
48	Pd-CuFe Catalyst for Transfer Hydrogenation of Nitriles: Controllable Selectivity to Primary Amines and Secondary Amines. <i>IScience</i> , 2018 , 8, 61-73	6.1	37
47	Magnetically Hollow Pt Nanocages with Ultrathin Walls as a Highly Integrated Nanoreactor for Catalytic Transfer Hydrogenation Reaction. <i>Advanced Science</i> , 2019 , 6, 1802132	13.6	35
46	Two dimensional Rh/Fe ₃ O ₄ /g-C ₃ N ₄ -N enabled hydrazine mediated catalytic transfer hydrogenation of nitroaromatics: A predictable catalyst model with adjoining Rh. <i>Journal of Catalysis</i> , 2018 , 368, 20-30	7.3	32
45	Recent progress in lab-on-a-chip for pharmaceutical analysis and pharmacological/toxicological test. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 117, 215-230	14.6	28
44	Microwell Confined Iron Oxide Nanoparticles in Honeycomblike Carbon Spheres for the Adsorption of Sb(III) and Sequential Utilization as a Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 12925-12934	8.3	25
43	A novel solvent-free strategy for the synthesis of bismuth oxyhalides. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 13005-13011	13	24
42	Amorphous Flowerlike Goethite FeOOH Hierarchical Supraparticles: Superior Capability for Catalytic Hydrogenation of Nitroaromatics in Water. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 32180-32191	9.5	24
41	A ppm level Rh-based composite as an ecofriendly catalyst for transfer hydrogenation of nitriles: triple guarantee of selectivity for primary amines. <i>Green Chemistry</i> , 2019 , 21, 1390-1395	10	23
40	Recyclable Acid-Base Bifunctional Core-Shell Nanosphere Catalyzed Synthesis of 5-Aryl-1H-1,2,3-triazoles through the One-Pot Cyclization of Aldehydes, Nitromethane, and Sodium Azide. <i>ChemCatChem</i> , 2017 , 9, 3131-3137	5.2	21
39	Metallo-supramolecular polymer engineered porous carbon framework encapsulated stable ultra-small nanoparticles: a general approach to construct highly dispersed catalysts. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16680-16689	13	20

38	Noncovalently functionalized carbon nanotubes immobilized FeBi bimetallic oxides as a heterogeneous nanocatalyst for reduction of nitroaromatics. <i>Nano Structures Nano Objects</i> , 2017 , 10, 116-124	5.6	19
37	3D Porous Carbon Framework Stabilized Ultra-Uniform Nano FeO : A Useful Catalyst System. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 89-98	4.5	19
36	Rh Catalyzed Selective Hydrogenation of Nitroarenes under Mild Conditions: Understanding the Functional Groups Attached to the Nanoparticles. <i>ChemCatChem</i> , 2019 , 11, 5543-5552	5.2	16
35	Ultrafine FeCu Alloy Nanoparticles Magnetically Immobilized in Amine-Rich Silica Spheres for Dehalogenation-Proof Hydrogenation of Nitroarenes. <i>Chemistry - A European Journal</i> , 2018 , 24, 14418-14424	4.8	16
34	Nickel-Catalyzed Synthesis of 3D Edge-Curled Graphene for High-Performance Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 1904645	15.6	15
33	Recent Advances in Nanozymes: From Matters to Bioapplications. <i>Advanced Functional Materials</i> , 2022 , 32, 2110432	15.6	15
32	A flow strategy for the rapid, safe and scalable synthesis of N-H 1, 2, 3-triazoles via acetic acid mediated cycloaddition between nitroalkene and NaN ₃ . <i>Tetrahedron</i> , 2017 , 73, 3959-3965	2.4	14
31	Recycling Antimony(III) by Magnetic Carbon Nanospheres: Turning Waste to Recoverable Catalytic for Synthesis of Esters and Triazoles. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 469-477	8.3	13
30	Composable microfluidic spinning platforms for facile production of biomimetic perfusable hydrogel microtubes. <i>Nature Protocols</i> , 2021 , 16, 937-964	18.8	13
29	Facile and Large-Scale Fabrication of Sub-3 nm PtNi Nanoparticles Supported on Porous Carbon Sheet: A Bifunctional Material for the Hydrogen Evolution Reaction and Hydrogenation. <i>Chemistry - A European Journal</i> , 2019 , 25, 7191-7200	4.8	12
28	Hydroxyl Assisted Rhodium Catalyst Supported on Goethite Nanoflower for Chemoselective Catalytic Transfer Hydrogenation of Fully Converted Nitrostyrenes. <i>Advanced Synthesis and Catalysis</i> , 2019 , 361, 3146-3154	5.6	11
27	Dehydration-triggered shape morphing based on asymmetric bubble hydrogel microfibers. <i>Soft Matter</i> , 2018 , 14, 6623-6626	3.6	11
26	Moderate Activity from Trace Palladium Alloyed with Copper for the Chemoselective Hydrogenation of α N and α O ₂ with HCOOH. <i>ChemistrySelect</i> , 2019 , 4, 7346-7350	1.8	10
25	Multi-shell nanocomposites based multienzyme mimetics for efficient intracellular antioxidation. <i>Nano Research</i> , 2021 , 14, 2644-2653	10	9
24	Dual Enzyme Mimics Based on MetalLigand Cross-Linking Strategy for Accelerating Ascorbate Oxidation and Enhancing Tumor Therapy. <i>Advanced Functional Materials</i> , 2021 , 31, 2103581	15.6	8
23	A multi-step induced strategy to fabricate core-shell Pt-Ni alloy as symmetric electrocatalysts for overall water splitting. <i>Nano Research</i> , 2021 , 14, 2644-2653	10	8
22	A Predictable Catalyst Model for Highly Active and Selective Catalysis of Hydrogenation of Nitroarenes: Comprehension of Various Precious Metal Nanoparticles. <i>ChemistrySelect</i> , 2019 , 4, 8960-8967	1.8	7
21	Immobilizing Multifunctional Fe ₂ O ₃ -SnO ₂ Nanoparticles to Carbon Nanospheres: An Extremely Active and Selective Catalyst for Hydrogen Transfer Reaction. <i>ChemistrySelect</i> , 2017 , 2, 8288-8295	1.8	7

20	Cp2ZrCl2-catalyzed synthesis of 2-aminovinyl benzimidazoles under microwave conditions. <i>Chinese Chemical Letters</i> , 2015 , 26, 297-300	8.1	7
19	Insight into the selectivity of nano-catalytic nitroarenes reduction over other active groups by exploring hydrogen sources and metal components. <i>Applied Catalysis A: General</i> , 2021 , 626, 118339	5.1	7
18	Ultimate Resourcization of Waste: Crab Shell-Derived Biochar for Antimony Removal and Sequential Utilization as an Anode for a Li-Ion Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 8813-8823	8.3	6
17	Stretchable and Anisotropic Conductive Composite Hydrogel as Therapeutic Cardiac Patches 2021 , 3, 1238-1248		6
16	Selective Synthesis of Symmetrical Secondary Amines from Nitriles with a Pt-CuFe/Fe O Catalyst and Ammonia Borane as Hydrogen Donor. <i>ChemPlusChem</i> , 2020 , 85, 1783-1788	2.8	5
15	Rhodium Nanoparticles Loaded on Carbon-Wrapped Fe3O4 Sphere: an Efficient, Stable and Magnetically Recoverable Catalyst for the Catalytic Transfer Hydrogenation of Nitroarenes in Water. <i>ChemistrySelect</i> , 2017 , 2, 6762-6766	1.8	5
14	Ternary NiFeMnOx compounds for adsorption of antimony and subsequent application in energy storage to avoid secondary pollution. <i>Separation and Purification Technology</i> , 2021 , 276, 119237	8.3	5
13	Nitrite-Responsive Hydrogel: Smart Drug Release Depending on the Severity of the Nitric Oxide-Related Disease. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 51185-51197	9.5	4
12	Metal-Organic Framework-Encapsulated CoCu Nanoparticles for the Selective Transfer Hydrogenation of Nitrobenzaldehydes: Engineering Active Armor by the Half-Way Injection Method. <i>Chemistry - A European Journal</i> , 2021 , 27, 1080-1087	4.8	4
11	Encapsulating Electron-Rich Pd NPs with Lewis Acidic MOF: Reconciling the Electron-Preference Conflict of the Catalyst for Cascade Condensation via Nitro Reduction.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	3
10	Reusable rhodium catalyst for the selective transvinylolation of sp ² -C linked carboxylic acid. <i>Tetrahedron Letters</i> , 2018 , 59, 3279-3282	2	2
9	Tunable Assembly of Organic-Inorganic Molecules into Hierarchical Superstructures as Ligase Mimics for Enhancing Tumor Photothermal Therapy.. <i>Small</i> , 2022 , e2105304	11	2
8	Iron Catalyzed Cascade Construction of Molybdenum Carbide Heterointerfaces for Understanding Hydrogen Evolution.. <i>Small</i> , 2022 , e2200439	11	2
7	Copper promoted catalytic cleavage of esters under nearly neutral conditions in the presence of NaN ₃ . <i>Tetrahedron Letters</i> , 2015 , 56, 2678-2683	2	1
6	In-situ Construction of Graphite-Supported Magnetic Carbocatalysts from a Metallo-Supramolecular Polymer: High Performance for Catalytic Transfer Hydrogenation. <i>ChemNanoMat</i> , 2020 , 6, 629-638	3.5	1
5	Efficient water-mediated synthesis of bismuth oxyiodide with several distinct morphologies. <i>CrystEngComm</i> , 2020 , 22, 1754-1761	3.3	1
4	Cobalt-promoted fabrication of 3D carbon with a nanotube-sheet mutual support structure: scalable preparation of a high-performance anode material for Li-ion batteries. <i>Nanotechnology</i> , 2019 , 31, 085402	3.4	1
3	Recovery of antimony using biological waste and stepwise resourcization as catalysts for both polyesterification and transfer hydrogenation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 635, 128119	5.1	0

- 2 An Asymmetrical Cyanine Dye Nanoparticles for Small Vessel Photoacoustic Imaging In Vivo. *ChemNanoMat*, **2018**, 4, 626-630 3.5 ○
- 1 Oligo-layer graphene stabilized fully exposed Fe-sites for ultra-sensitivity electrochemical detection of dopamine. *Biosensors and Bioelectronics*, **2022**, 114367 11.8 ○