

# Liyu Chen

## 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.

48  
papers

2,997  
citations

25  
h-index

50  
g-index

50  
ext. papers

3,937  
ext. citations

12.2  
avg, IF

6.29  
L-index

#	Paper	IF	Citations
48	MOF-derived electrocatalysts for oxygen reduction, oxygen evolution and hydrogen evolution reactions. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 1414-1448	58.5	587
47	Controllable design of tunable nanostructures inside metal-organic frameworks. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 4614-4630	58.5	380
46	Metal-organic framework encapsulated Pd nanoparticles: towards advanced heterogeneous catalysts. <i>Chemical Science</i> , <b>2014</b> , 5, 3708-3714	9.4	190
45	Metal-Organic Framework Composites for Catalysis. <i>Matter</i> , <b>2019</b> , 1, 57-89	12.7	162
44	Functional metal-organic frameworks for catalytic applications. <i>Coordination Chemistry Reviews</i> , <b>2019</b> , 388, 268-292	23.2	151
43	Controllable Encapsulation of "Clean" Metal Clusters within MOFs through Kinetic Modulation: Towards Advanced Heterogeneous Nanocatalysts. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 5019-23	16.4	150
42	Bimetallic metal-organic frameworks and their derivatives. <i>Chemical Science</i> , <b>2020</b> , 11, 5369-5403	9.4	115
41	Quasi-MOF: Exposing Inorganic Nodes to Guest Metal Nanoparticles for Drastically Enhanced Catalytic Activity. <i>Chem</i> , <b>2018</b> , 4, 845-856	16.2	114
40	A molecular Pd(II) complex incorporated into a MOF as a highly active single-site heterogeneous catalyst for C-C bond activation. <i>Green Chemistry</i> , <b>2014</b> , 16, 3978	10	107
39	Seed-mediated growth of MOF-encapsulated Pd@Ag core-shell nanoparticles: toward advanced room temperature nanocatalysts. <i>Chemical Science</i> , <b>2016</b> , 7, 228-233	9.4	102
38	Immobilization of Pd(II) on MOFs as a highly active heterogeneous catalyst for Suzuki-Miyaura and Ullmann-type coupling reactions. <i>Catalysis Today</i> , <b>2015</b> , 245, 122-128	5.3	89
37	A covalent organic framework-based route to the encapsulation of metal nanoparticles in N-rich hollow carbon spheres. <i>Chemical Science</i> , <b>2016</b> , 7, 6015-6020	9.4	80
36	Encapsulation of Mono- or Bimetal Nanoparticles Inside Metal-Organic Frameworks via In situ Incorporation of Metal Precursors. <i>Small</i> , <b>2015</b> , 11, 2642-8	11	73
35	One-pot synthesis of Pd@MOF composites without the addition of stabilizing agents. <i>Chemical Communications</i> , <b>2014</b> , 50, 14752-5	5.8	72
34	In situ one-step synthesis of metal-organic framework encapsulated naked Pt nanoparticles without additional reductants. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 8028-8033	13	66
33	One-step encapsulation of Pd nanoparticles in MOFs via a temperature control program. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 15259-15264	13	65
32	Nanocomposites of Platinum/Metal-Organic Frameworks Coated with Metal-Organic Frameworks with Remarkably Enhanced Chemoselectivity for Cinnamaldehyde Hydrogenation. <i>ChemCatChem</i> , <b>2016</b> , 8, 946-951	5.2	57

31	"Click" post-functionalization of a metal-organic framework for engineering active single-site heterogeneous Ru(III) catalysts. <i>Chemical Communications</i> , <b>2015</b> , 51, 9884-7	5.8	47
30	Phosphate-Mediated Immobilization of High-Performance AuPd Nanoparticles for Dehydrogenation of Formic Acid at Room Temperature. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1903347	15.6	40
29	Controllable Encapsulation of Clean Metal Clusters within MOFs through Kinetic Modulation: Towards Advanced Heterogeneous Nanocatalysts. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 5103-5107	3.6	38
28	Encapsulation of metal nanostructures into metal-organic frameworks. <i>Dalton Transactions</i> , <b>2018</b> , 47, 3663-3668	4.3	33
27	Controlled Growth of Monodisperse Ferrite Octahedral Nanocrystals for Biomass-Derived Catalytic Applications. <i>ACS Catalysis</i> , <b>2017</b> , 7, 2948-2955	13.1	32
26	Metal-Organic Framework-Based Hybrid Frameworks. <i>Small Structures</i> , <b>2021</b> , 2, 2000078	8.7	31
25	Catalytically active designer crown-jewel Pd-based nanostructures encapsulated in metal-organic frameworks. <i>Chemical Communications</i> , <b>2017</b> , 53, 1184-1187	5.8	29
24	Paragenesis of Palladium-Cobalt Nanoparticle in Nitrogen-Rich Carbon Nanotubes as a Bifunctional Electrocatalyst for Hydrogen-Evolution Reaction and Oxygen-Reduction Reaction. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 7710-7718	4.8	25
23	Rechargeable Al-ion batteries. <i>EnergyChem</i> , <b>2021</b> , 3, 100049	36.9	22
22	Encapsulation of C-N-decorated metal sub-nanoclusters/single atoms into a metal-organic framework for highly efficient catalysis. <i>Chemical Science</i> , <b>2018</b> , 9, 8962-8968	9.4	22
21	Hollow Spherical Superstructure of Carbon Nanosheets for Bifunctional Oxygen Reduction and Evolution Electrocatalysis. <i>Nano Letters</i> , <b>2021</b> , 21, 3640-3648	11.5	15
20	Fewer defects, better catalysis?. <i>Science</i> , <b>2020</b> , 367, 737	33.3	12
19	Regulating the Electronic Structure and Water Adsorption Capability by Constructing Carbon-Doped CuO Hollow Spheres for Efficient Photocatalytic Hydrogen Evolution. <i>ChemSusChem</i> , <b>2020</b> , 13, 5711-5721	8.3	11
18	Quasi-MOF-immobilized metal nanoparticles for synergistic catalysis. <i>Science China Chemistry</i> , <b>2020</b> , 63, 1601-1607	7.9	10
17	Structure-induced hollow Co <sub>3</sub> O <sub>4</sub> nanoparticles with rich oxygen vacancies for efficient CO oxidation. <i>Science China Materials</i> , <b>2020</b> , 63, 267-275	7.1	9
16	A Mesoporous Zirconium-Isophthalate Multifunctional Platform. <i>Matter</i> , <b>2021</b> , 4, 182-194	12.7	9
15	Encapsulating Ultrastable Metal Nanoparticles within Reticular Schiff Base Nanospaces for Enhanced Catalytic Performance. <i>Cell Reports Physical Science</i> , <b>2021</b> , 2, 100289	6.1	8
14	Nitrogen-Doped Carbon Composites with Ordered Macropores and Hollow Walls. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 23729-23734	16.4	8

13	Efficient hydrogenation of furfural to fufuryl alcohol over hierarchical MOF immobilized metal catalyts. <i>Catalysis Today</i> , <b>2021</b> , 368, 217-223	5.3	7
12	Hierarchical Double-Shelled CoP Nanocages for Efficient Visible-Light-Driven CO Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 45609-45618	9.5	7
11	Multiple catalytic sites in MOF-based hybrid catalysts for organic reactions. <i>Organic and Biomolecular Chemistry</i> , <b>2020</b> , 18, 8508-8525	3.9	5
10	Encapsulation of ultrafine Pd nanoparticles within the shallow layers of UiO-67 for highly efficient hydrogenation reactions. <i>Science China Chemistry</i> , <b>2021</b> , 64, 109-115	7.9	5
9	Main-Group Metal Single-Atomic Regulators in Dual-Metal Catalysts for Enhanced Electrochemical CO Reduction.. <i>Small</i> , <b>2022</b> , e2201391	11	3
8	Metal-Carbon Composite Catalysts by One-Step Conversion of MOF Crystals in a Sealed-Tube Reactor. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 11529-11533	6.1	2
7	Interfacing with Fe-N-C Sites Boosts the Formic Acid Dehydrogenation of Palladium Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 46749-46755	9.5	2
6	Heterogeneous Room Temperature Catalysis [Nanomaterials <b>2018</b> , 59-88		1
5	Metal-Organic Frameworks: Encapsulation of Mono- or Bimetal Nanoparticles Inside Metal-Organic Frameworks via In situ Incorporation of Metal Precursors (Small 22/2015). <i>Small</i> , <b>2015</b> , 11, 2586-2586	11	1
4	Soluble porous carbon cage-encapsulated highly active metal nanoparticle catalyts. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 13670-13677	13	1
3	Nitrogen-Doped Carbon Composites with Ordered Macropores and Hollow Walls. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 23922	3.6	1
2	Scalable synthesis of multi-shelled hollow N-doped carbon nanosheet arrays with confined Co/CoP heterostructures from MOFs for pH-universal hydrogen evolution reaction. <i>Science China Chemistry</i> , <b>2022</b> , 65, 619-629	7.9	1
1	Paragenesis of Palladium-Cobalt Nanoparticle in Nitrogen-Rich Carbon Nanotubes as a Bifunctional Electrocatalyst for Hydrogen-Evolution Reaction and Oxygen-Reduction Reaction. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 7625-7625	4.8	