Liyu Chen

List of Publications by Year
in descending order

48 papers	4,795 citations	172207 29 h-index	214527 47 g-index
50 all docs	50 docs citations	50 times ranked	5508 citing authors

#	Article	IF	Citations
1	MOF-derived electrocatalysts for oxygen reduction, oxygen evolution and hydrogen evolution reactions. Chemical Society Reviews, 2020, 49, 1414-1448.	18.7	1,128
2	Controllable design of tunable nanostructures inside metalâ€“organic frameworks. Chemical Society Reviews, 2017, 46, 4614-4630.	18.7	516
3	Metal-Organic Framework Composites for Catalysis. Matter, 2019, 1, 57-89.	5.0	308
4	Bimetallic metalâ€“organic frameworks and their derivatives. Chemical Science, 2020, 11, 5369-5403.	3.7	285
5	Functional metalâ€“organic frameworks for catalytic applications. Coordination Chemistry Reviews, 2019, 388, 268-292.	9.5	242
6	Metalâˆ'organic framework encapsulated Pd nanoparticles: towards advanced heterogeneous catalysts. Chemical Science, 2014, 5, 3708-3714.	3.7	225
7	Controllable Encapsulation of â€œCleanâ€•Metal Clusters within MOFs through Kinetic Modulation: Towards Advanced Heterogeneous Nanocatalysts. Angewandte Chemie - International Edition, 2016, 55, 5019-5023.	7.2	190
8	Quasi-MOF: Exposing Inorganic Nodes to Guest Metal Nanoparticles for Drastically Enhanced Catalytic Activity. CheM, 2018, 4, 845-856.	5.8	165
9	Seed-mediated growth of MOF-encapsulated Pd@Ag coreâ€“shell nanoparticles: toward advanced room temperature nanocatalysts. Chemical Science, 2016, 7, 228-233.	3.7	128
10	A molecular Pd(<scp>ii</scp>) complex incorporated into a MOF as a highly active single-site heterogeneous catalyst for Câ€“Cl bond activation. Green Chemistry, 2014, 16, 3978.	4.6	127
11	Immobilization of Pd(II) on MOFs as a highly active heterogeneous catalyst for Suzukiâ€“Miyaura and Ullmann-type coupling reactions. Catalysis Today, 2015, 245, 122-128.	2.2	102
12	A covalent organic framework-based route to the in situ encapsulation of metal nanoparticles in N-rich hollow carbon spheres. Chemical Science, 2016, 7, 6015-6020.	3.7	90
13	In situ one-step synthesis of metalâ€“organic framework encapsulated naked Pt nanoparticles without additional reductants. Journal of Materials Chemistry A, 2015, 3, 8028-8033.	5.2	86
14	Encapsulation of Monoâ€•or Bimetal Nanoparticles Inside Metalâ€“Organic Frameworks via In situ Incorporation of Metal Precursors. Small, 2015, 11, 2642-2648.	5.2	85
15	One-pot synthesis of Pd@MOF composites without the addition of stabilizing agents. Chemical Communications, 2014, 50, 14752-14755.	2.2	84
16	One-step encapsulation of Pd nanoparticles in MOFs via a temperature control program. Journal of Materials Chemistry A, 2015, 3, 15259-15264.	5.2	78
17	Nanocomposites of Platinum/Metalâ€“Organic Frameworks Coated with Metalâ€“Organic Frameworks with Remarkably Enhanced Chemoselectivity for Cinnamaldehyde Hydrogenation. ChemCatChem, 2016, 8, 946-951.	1.8	76
18	Phosphateâ€Mediated Immobilization of Highâ€Performance AuPd Nanoparticles for Dehydrogenation of Formic Acid at Room Temperature. Advanced Functional Materials, 2019, 29, 1903341.	7.8	68

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19	Metalâ€“Organic Frameworkâ€Based Hybrid Frameworks. Small Structures, 2021, 2, 2000078.	6.9	65
20	Nitrogenâ€Doped Carbon Composites with Ordered Macropores and Hollow Walls. Angewandte Chemie - International Edition, 2021, 60, 23729-23734.	7.2	64
21	â€œClickâ€• post-functionalization of a metalâ€“organic framework for engineering active single-site heterogeneous Ru(<scp>iii</scp>) catalysts. Chemical Communications, 2015, 51, 9884-9887.	2.2	55
22	Rechargeable Al-ion batteries. EnergyChem, 2021, 3, 100049.	10.1	48
23	Hollow Spherical Superstructure of Carbon Nanosheets for Bifunctional Oxygen Reduction and Evolution Electrocatalysis. Nano Letters, 2021, 21, 3640-3648.	4.5	48
24	Encapsulation of metal nanostructures into metalâ€“organic frameworks. Dalton Transactions, 2018, 47, 3663-3668.	1.6	43
25	Controllable Encapsulation of â€œCleanâ€• Metal Clusters within MOFs through Kinetic Modulation: Towards Advanced Heterogeneous Nanocatalysts. Angewandte Chemie, 2016, 128, 5103-5107.	1.6	42
26	Controlled Growth of Monodisperse Ferrite Octahedral Nanocrystals for Biomass-Derived Catalytic Applications. ACS Catalysis, 2017, 7, 2948-2955.	5.5	40
27	Mainâ€Group Metal Singleâ€Atomic Regulators in Dualâ€Metal Catalysts for Enhanced Electrochemical CO₂ Reduction. Small, 2022, 18, e2201391.	5.2	39
28	Catalytically active designer crown-jewel Pd-based nanostructures encapsulated in metalâ€“organic frameworks. Chemical Communications, 2017, 53, 1184-1187.	2.2	35
29	Paragenesis of Palladiumâ€“Cobalt Nanoparticle in Nitrogenâ€Rich Carbon Nanotubes as a Bifunctional Electrocatalyst for Hydrogenâ€Evolution Reaction and Oxygenâ€Reduction Reaction. Chemistry - A European Journal, 2017, 23, 7710-7718.	1.7	29
30	Quasi-MOF-immobilized metal nanoparticles for synergistic catalysis. Science China Chemistry, 2020, 63, 1601-1607.	4.2	29
31	Hierarchical Double-Shelled CoP Nanocages for Efficient Visible-Light-Driven CO₂ Reduction. ACS Applied Materials & Interfaces, 2021, 13, 45609-45618.	4.0	28
32	Encapsulation of Câ€“N-decorated metal sub-nanoclusters/single atoms into a metalâ€“organic framework for highly efficient catalysis. Chemical Science, 2018, 9, 8962-8968.	3.7	27
33	Scalable synthesis of multi-shelled hollow N-doped carbon nanosheet arrays with confined Co/CoP heterostructures from MOFs for pH-universal hydrogen evolution reaction. Science China Chemistry, 2022, 65, 619-629.	4.2	26
34	Regulating the Electronic Structure and Water Adsorption Capability by Constructing Carbonâ€Doped CuO Hollow Spheres for Efficient Photocatalytic Hydrogen Evolution. ChemSusChem, 2020, 13, 5711-5721.	3.6	23
35	Interfacing with Feâ€“Nâ€“C Sites Boosts the Formic Acid Dehydrogenation of Palladium Nanoparticles. ACS Applied Materials & Interfaces, 2021, 13, 46749-46755.	4.0	21
36	A Mesoporous Zirconium-Isophthalate Multifunctional Platform. Matter, 2021, 4, 182-194.	5.0	20

#	Article	IF	Citations
37	Fewer defects, better catalysis?. Science, 2020, 367, 737-737.	6.0	19
38	Structure-induced hollow Co3O4 nanoparticles with rich oxygen vacancies for efficient CO oxidation. Science China Materials, 2020, 63, 267-275.	3.5	18
39	Encapsulation of ultrafine Pd nanoparticles within the shallow layers of UiO-67 for highly efficient hydrogenation reactions. Science China Chemistry, 2021, 64, 109-115.	4.2	18
40	Encapsulating Ultrastable Metal Nanoparticles within Reticular Schiff Base Nanospaces for Enhanced Catalytic Performance. Cell Reports Physical Science, 2021, 2, 100289.	2.8	16
41	Efficient hydrogenation of furfural to fufuryl alcohol over hierarchical MOF immobilized metal catalysts. Catalysis Today, 2021, 368, 217-223.	2.2	15
42	Soluble porous carbon cage-encapsulated highly active metal nanoparticle catalysts. Journal of Materials Chemistry A, 2021, 9, 13670-13677.	5.2	13
43	Multiple catalytic sites in MOF-based hybrid catalysts for organic reactions. Organic and Biomolecular Chemistry, 2020, 18, 8508-8525.	1.5	11
44	Nitrogenâ€Doped Carbon Composites with Ordered Macropores and Hollow Walls. Angewandte Chemie, 2021, 133, 23922-23927.	1.6	11
45	Morphology-Controlled Mesopores with Hydrophilic Pore Walls from Triblock Copolymers. Macromolecules, 2022, 55, 4812-4820.	2.2	4
46	Metalâ€"Carbon Composite Catalysts by One-Step Conversion of MOF Crystals in a Sealed-Tube Reactor. ACS Applied Energy Materials, 2020, 3, 11529-11533.	2.5	3
47	Metalâ€"Organic Frameworks: Encapsulation of Monoâ€•or Bimetal Nanoparticles Inside Metalâ€"Organic Frameworks via In situ Incorporation of Metal Precursors (Small 22/2015). Small, 2015, 11, 2586-2586.	5.2	1
48	Paragenesis of Palladium-Cobalt Nanoparticle in Nitrogen-Rich Carbon Nanotubes as a Bifunctional Electrocatalyst for Hydrogen-Evolution Reaction and Oxygen-Reduction Reaction. Chemistry - A European Journal, 2017, 23, 7625-7625.	1.7	0