

# Well-Defined Materials for Heterogeneous Catalysis: From Single-Atom Sites

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Recent Advances in Magnetic Nanoparticles and Nanocomposites for the Remediation of Water Resources. <i>Magnetochemistry</i> , 2020, 6, 49.	1.0	26
2	Advanced transition metal/nitrogen/carbon-based electrocatalysts for fuel cell applications. <i>Science China Chemistry</i> , 2020, 63, 1517-1542.	4.2	56
3	Single-Atom Catalysts across the Periodic Table. <i>Chemical Reviews</i> , 2020, 120, 11703-11809.	23.0	690
4	High-performance light-driven heterogeneous CO <sub>2</sub> catalysis with near-unity selectivity on metal phosphides. <i>Nature Communications</i> , 2020, 11, 5149.	5.8	82
5	Engineering the Low Coordinated Pt Single Atom to Achieve the Superior Electrocatalytic Performance toward Oxygen Reduction. <i>Small</i> , 2020, 16, e2003096.	5.2	110
6	Alkali ions secure hydrides for catalytic hydrogenation. <i>Nature Catalysis</i> , 2020, 3, 703-709.	16.1	123
7	Synthesis, characterization and application of pure and decorated with palladium mesoporous cobalt hydroxide hexagonal nanorings. <i>Journal of Alloys and Compounds</i> , 2020, 846, 156422.	2.8	1
8	Direct Synthesis of Atomically Dispersed Palladium Atoms Supported on Graphitic Carbon Nitride for Efficient Selective Hydrogenation Reactions. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 54146-54154.	4.0	31
9	Recent Progresses on Structural Reconstruction of Nanosized Metal Catalysts via Controlled-Atmosphere Transmission Electron Microscopy: A Review. <i>ACS Catalysis</i> , 2020, 10, 14419-14450.	5.5	71
10	Single-Atom Catalysts for Thermal Heterogeneous Catalysis in Liquid: Recent Progress and Future Perspective. , 2020, 2, 1653-1661.		13
11	Deciphering the Nature of Ru Sites in Reductively Exsolved Oxides with Electronic and Geometric Metal-Support Interactions. <i>Journal of Physical Chemistry C</i> , 2020, 124, 25299-25307.	1.5	18
12	Achieving High Activity and Selectivity of Nitrogen Reduction via Fe-N <sub>3</sub> Coordination on Iron Single-Atom Electrocatalysts at Ambient Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12809-12816.	3.2	41
13	Synthetic Organic Transformations of Transition-Metal Nanoparticles as Propitious Catalysts: A Review. <i>Asian Journal of Organic Chemistry</i> , 2020, 9, 1341-1376.	1.3	11
14	Facet-Dependent Long-Term Stability of Gold Aerogels toward Ethylene Glycol Oxidation Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 39033-39042.	4.0	15
15	Loading Copper Atoms on Graphdiyne for Highly Efficient Hydrogen Production. <i>ChemPhysChem</i> , 2020, 21, 2145-2149.	1.0	40
16	MOF-based atomically dispersed metal catalysts: Recent progress towards novel atomic configurations and electrocatalytic applications. <i>Coordination Chemistry Reviews</i> , 2020, 422, 213483.	9.5	105
17	Stabilizing Atomically Dispersed Catalytic Sites on Tellurium Nanosheets with Strong Metal-Support Interaction Boosts Photocatalysis. <i>Small</i> , 2020, 16, e2002356.	5.2	45
18	Negative Pressure Pyrolysis Induced Highly Accessible Single Sites Dispersed on 3D Graphene Frameworks for Enhanced Oxygen Reduction. <i>Angewandte Chemie</i> , 2020, 132, 20645-20649.	1.6	16

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19	Negative Pressure Pyrolysis Induced Highly Accessible Single Sites Dispersed on 3D Graphene Frameworks for Enhanced Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20465-20469.	7.2	104
20	Electroreduction Reaction Mechanism of Carbon Dioxide to C <sub>2</sub> Products via Cu/Au Bimetallic Catalysis: A Theoretical Prediction. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6593-6599.	2.1	41
21	High-Density and Thermally Stable Palladium Single-Atom Catalysts for Chemoselective Hydrogenations. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21613-21619.	7.2	103
22	Recent Advances in MOF-Derived Single Atom Catalysts for Electrochemical Applications. <i>Advanced Energy Materials</i> , 2020, 10, 2001561.	10.2	265
23	High-Density and Thermally Stable Palladium Single-Atom Catalysts for Chemoselective Hydrogenations. <i>Angewandte Chemie</i> , 2020, 132, 21797-21803.	1.6	19
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26	Understanding activity origin for the oxygen reduction reaction on bi-atom catalysts by DFT studies and machine-learning. <i>Journal of Materials Chemistry A</i> , 2020, 8, 24563-24571.	5.2	71
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29	Synthesis and Characterization of Rh <sup>III</sup> –M <sup>II</sup> (M = Pt, Pd) Heterobimetallic Complexes Based on a Bisphosphine Ligand: Tandem Reactions Using Ethanol. <i>Organometallics</i> , 2020, 39, 3879-3891.	1.1	6
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34	Stabilized Pt Cluster-Based Catalysts Used as Low-Loading Cathode in Proton-Exchange Membrane Fuel Cells. <i>ACS Energy Letters</i> , 2020, 5, 3021-3028.	8.8	39
35	Recent Advances in Earth-Abundant Core/Noble-Metal Shell Nanoparticles for Electrocatalysis. <i>ACS Catalysis</i> , 2020, 10, 10886-10904.	5.5	38
36	Pentamethylcyclopentadienyl-substituted hypersilylsilylene: reversible and irreversible activation of C=C double bonds and dihydrogen. <i>Dalton Transactions</i> , 2020, 49, 13218-13225.	1.6	16

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37	A Machine Learning Model on Simple Features for CO <sub>2</sub> Reduction Electrocatalysts. Journal of Physical Chemistry C, 2020, 124, 22471-22478.	1.5	125
38	The synthetic strategies for single atomic site catalysts based on metal-organic frameworks. Nanoscale, 2020, 12, 20580-20589.	2.8	17
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47	Single-Atom Cu Catalysts for Enhanced Electrocatalytic Nitrate Reduction with Significant Alleviation of Nitrite Production. Small, 2020, 16, e2004526.	5.2	188
48	Rare-Earth Single-Atom La Charge-Transfer Bridge on Carbon Nitride for Highly Efficient and Selective Photocatalytic CO <sub>2</sub> Reduction. ACS Nano, 2020, 14, 15841-15852.	7.3	283
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57	Ultrastable and Highly Catalytically Active N-Heterocyclic Carbene-Stabilized Gold Nanoparticles in Confined Spaces. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16683-16689.	7.2	92
58	Recent Advances in Metal-Organic Frameworks and Their Derived Materials for Electrocatalytic Water Splitting. <i>ChemElectroChem</i> , 2020, 7, 1805-1824.	1.7	47
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70	Sub-3 nm Ultrafine Cu <sub>2</sub> O for Visible Light Driven Nitrogen Fixation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2554-2560.	7.2	134
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74	Interplay between invasive single atom Pt and native oxygen vacancy in anatase TiO <sub>2</sub> (100) surface: A theoretical study. <i>Applied Surface Science</i> , 2021, 540, 148357.	3.1	17
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91	Efficient photocatalytic nitrogen fixation to ammonia over bismuth monoxide quantum dots-modified defective ultrathin graphitic carbon nitride. <i>Chemical Engineering Journal</i> , 2021, 406, 126868.	6.6	84
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133	Probing Single-Atom Catalysts and Catalytic Reaction Processes by Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy. <i>Angewandte Chemie</i> , 2021, 133, 9392-9396.	1.6	7
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