

Bing Ni

List of Publications by Year in descending order

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54
papers

3,227
citations

136740

32
h-index

182168

51
g-index

55
all docs

55
docs citations

55
times ranked

4881
citing authors

#	ARTICLE	IF	CITATIONS
1	Zirconium-Porphyrin-Based Metal-Organic Framework Hollow Nanotubes for Immobilization of Noble-Metal Single Atoms. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3493-3498.	7.2	341
2	Dendritic defect-rich palladium-copper-cobalt nanoalloys as robust multifunctional non-platinum electrocatalysts for fuel cells. <i>Nature Communications</i> , 2018, 9, 3702.	5.8	204
3	Ultrathin 2D Zirconium Metal-Organic Framework Nanosheets: Preparation and Application in Photocatalysis. <i>Small</i> , 2018, 14, e1703929.	5.2	171
4	Face the Edges: Catalytic Active Sites of Nanomaterials. <i>Advanced Science</i> , 2015, 2, 1500085.	5.6	145
5	Competitive coordination strategy for the synthesis of hierarchical-pore metal-organic framework nanostructures. <i>Chemical Science</i> , 2016, 7, 7101-7105.	3.7	125
6	Visible-light-switched electron transfer over single porphyrin-metal atom center for highly selective electroreduction of carbon dioxide. <i>Nature Communications</i> , 2019, 10, 3844.	5.8	121
7	Atomically Thick Pt-Cu Nanosheets: Self-Assembled Sandwich and Nanoring-Like Structures. <i>Advanced Materials</i> , 2015, 27, 2013-2018.	11.1	106
8	Incorporation of clusters within inorganic materials through their addition during nucleation steps. <i>Nature Chemistry</i> , 2019, 11, 839-845.	6.6	104
9	Zirconium-Porphyrin-Based Metal-Organic Framework Hollow Nanotubes for Immobilization of Noble-Metal Single Atoms. <i>Angewandte Chemie</i> , 2018, 130, 3551-3556.	1.6	102
10	Trimetallic Sulfide Mesoporous Nanospheres as Superior Electrocatalysts for Rechargeable Zn-Air Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1801839.	10.2	101
11	The Sub-Nanometer Scale as a New Focus in Nanoscience. <i>Advanced Materials</i> , 2018, 30, e1802031.	11.1	99
12	Modifying Commercial Carbon with Trace Amounts of ZIF to Prepare Derivatives with Superior ORR Activities. <i>Advanced Materials</i> , 2017, 29, 1701354.	11.1	94
13	Porous Tetrametallic PtCuBiMn Nanosheets with a High Catalytic Activity and Methanol Tolerance Limit for Oxygen Reduction Reactions. <i>Advanced Materials</i> , 2017, 29, 1604994.	11.1	84
14	Composition-driven shape evolution to Cu-rich PtCu octahedral alloy nanocrystals as superior bifunctional catalysts for methanol oxidation and oxygen reduction reaction. <i>Nanoscale</i> , 2018, 10, 4670-4674.	2.8	82
15	Highly Active and Durable Pt ₇₂ Ru ₂₈ Porous Nanoalloy Assembled with Sub-4.0 nm Particles for Methanol Oxidation. <i>Advanced Energy Materials</i> , 2017, 7, 1601593.	10.2	81
16	Cobalt carbonate hydroxide superstructures for oxygen evolution reactions. <i>Chemical Communications</i> , 2017, 53, 8010-8013.	2.2	74
17	Fast and scalable synthesis of uniform zirconium-, hafnium-based metal-organic framework nanocrystals. <i>Nanoscale</i> , 2017, 9, 19209-19215.	2.8	74
18	Heterogeneous Catalysts with Well-Defined Active Metal Sites toward CO ₂ Electrochemical Reduction. <i>Advanced Energy Materials</i> , 2020, 10, 2001142.	10.2	66

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19	Metal-Organic Framework Based Microcapsules. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10148-10152.	7.2	64
20	General synthesis of inorganic single-walled nanotubes. <i>Nature Communications</i> , 2015, 6, 8756.	5.8	61
21	Chemistry and properties at a sub-nanometer scale. <i>Chemical Science</i> , 2016, 7, 3978-3991.	3.7	61
22	Single molecule-mediated assembly of polyoxometalate single-cluster rings and their three-dimensional superstructures. <i>Science Advances</i> , 2019, 5, eaax1081.	4.7	61
23	Surface Oxidation of AuNi Heterodimers to Achieve High Activities toward Hydrogen/Oxygen Evolution and Oxygen Reduction Reactions. <i>Small</i> , 2018, 14, e1703749.	5.2	60
24	The formation of (NiFe) ₂ S pyrite mesocrystals as efficient pre-catalysts for water oxidation. <i>Chemical Science</i> , 2018, 9, 2762-2767.	3.7	60
25	Ultra-small Tetrametallic Pt-Pd-Rh-Ag Nanoframes with Tunable Behavior for Direct Formic Acid/Methanol Oxidation. <i>Small</i> , 2016, 12, 5261-5268.	5.2	52
26	Edge overgrowth of spiral bimetallic hydroxides ultrathin-nanosheets for water oxidation. <i>Chemical Science</i> , 2015, 6, 3572-3576.	3.7	49
27	3D self-assembly of ultrafine molybdenum carbide confined in N-doped carbon nanosheets for efficient hydrogen production. <i>Nanoscale</i> , 2017, 9, 15895-15900.	2.8	45
28	Chirality communications between inorganic and organic compounds. <i>SmartMat</i> , 2021, 2, 17-32.	6.4	45
29	Trimetallic PtCoFe Alloy Monolayer Superlattices as Bifunctional Oxygen-Reduction and Ethanol-Oxidation Electrocatalysts. <i>Small</i> , 2017, 13, 1700250.	5.2	42
30	Fullerene-Like Nickel Oxysulfide Hollow Nanospheres as Bifunctional Electrocatalysts for Water Splitting. <i>Small</i> , 2017, 13, 1602637.	5.2	39
31	Van der Waals Integrated Hybrid POM-Zirconia Flexible Belt-Like Superstructures. <i>Advanced Materials</i> , 2020, 32, e1906794.	11.1	37
32	Competitive Coordination Strategy to Finely Tune Pore Environment of Zirconium-Based Metal-Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 22732-22738.	4.0	36
33	Nanosheet-Assembled Hierarchical Carbon Nanoframeworks Bearing a Multiactive Center for Oxygen Reduction Reaction. <i>Small Methods</i> , 2018, 2, 1800068.	4.6	28
34	Ultrathin Tungsten Bronze Nanowires with Efficient Photo-to-Thermal Conversion Behavior. <i>Chemistry of Materials</i> , 2018, 30, 8727-8731.	3.2	28
35	A perspective on the electrocatalytic conversion of carbon dioxide to methanol with metallomacrocyclic catalysts. <i>Journal of Energy Chemistry</i> , 2022, 64, 263-275.	7.1	28
36	Boosting the ORR performance of modified carbon black via C=O bonds. <i>Chemical Science</i> , 2019, 10, 2118-2123.	3.7	26

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37	Finely Composition-Tunable Synthesis of Ultrafine Wavy PtRu Nanowires as Effective Electrochemical Sensors for Dopamine Detection. <i>Langmuir</i> , 2017, 33, 8070-8075.	1.6	25
38	Titanocene dichloride (Cp_2TiCl_2) as a precursor for template-free fabrication of hollow TiO_2 nanostructures with enhanced photocatalytic hydrogen production. <i>Nanoscale</i> , 2017, 9, 2074-2081.	2.8	24
39	Mesoporous ZrO_2 Nanoframes for Biomass Upgrading. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 26897-26906.	4.0	24
40	Highly Flexible and Stretchable Nanowire Superlattice Fibers Achieved by Spring-Like Structure of Sub-100 nm Nanowires. <i>Advanced Functional Materials</i> , 2019, 29, 1903477.	7.8	20
41	Crystallinity-induced shape evolution of Pt-Ag nanosheets from branched nanocrystals. <i>Chemical Communications</i> , 2016, 52, 10547-10550.	2.2	19
42	Mimic the Photosystem II for Water Oxidation in Neutral Solution: A Case of Co_3O_4 . <i>Advanced Energy Materials</i> , 2018, 8, 1702313.	10.2	18
43	Facile synthesis of complex shaped Pt-Cu alloy architectures. <i>Nanoscale</i> , 2016, 8, 13212-13216.	2.8	17
44	Self-Assembly of Colloidal Nanocrystals into 3D Binary Mesocrystals. <i>Accounts of Chemical Research</i> , 2022, 55, 1599-1608.	7.6	17
45	Metal-Organic Framework Based Microcapsules. <i>Angewandte Chemie</i> , 2018, 130, 10305-10309.	1.6	15
46	The Synthesis of Sub-Nano-Thick Pd Nanobelt-Based Materials for Enhanced Hydrogen Evolution Reaction Activity. <i>CCS Chemistry</i> , 2020, 2, 642-654.	4.6	14
47	Nanostructure formation via post growth of particles. <i>CrystEngComm</i> , 2015, 17, 6796-6808.	1.3	12
48	A Symmetry-Based Kinematic Theory for Nanocrystal Morphology Design. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	10
49	The Synthesis of Sub-Nano-Thick Pd Nanobelt-Based Materials for Enhanced Hydrogen Evolution Reaction Activity. <i>CCS Chemistry</i> , 2020, 2, 642-654.	4.6	7
50	Simple Determination of Gold Nanocrystal Dimensions by Analytical Ultracentrifugation via Surface Ligand-Solvent Density Matching. <i>Nanomaterials</i> , 2021, 11, 1427.	1.9	4
51	Three-dimensional macroscale assembly of Pd nanoclusters. <i>Nano Research</i> , 2018, 11, 3175-3181.	5.8	3
52	Rational Design of Environmentally Compatible Nickel Hexacyanoferrate Mesocrystals as Catalysts. <i>Journal of Physical Chemistry C</i> , 0, , .	1.5	2
53	Outside Back Cover: Volume 2 Issue 1. <i>SmartMat</i> , 2021, 2, ii.	6.4	0
54	Eine symmetriebasierte kinematische Theorie für das Design von Nanokristall-Morphologien. <i>Angewandte Chemie</i> , 0, , .	1.6	0