

Wen-Yu Huang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8295363/publications.pdf>

Version: 2024-02-01

147
papers

13,646
citations

47409

49
h-index

23841

115
g-index

150
all docs

150
docs citations

150
times ranked

20349
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Crystalline Multimetallic Nanoframes with Three-Dimensional Electrocatalytic Surfaces. <i>Science</i> , 2014, 343, 1339-1343.	6.0	2,376
2	On the Universal Scaling Behavior of the Distance Decay of Plasmon Coupling in Metal Nanoparticle Pairs: A Plasmon Ruler Equation. <i>Nano Letters</i> , 2007, 7, 2080-2088.	4.5	1,415
3	Sub-Two Nanometer Single Crystal Au Nanowires. <i>Nano Letters</i> , 2008, 8, 2041-2044.	4.5	538
4	Sub-10 nm Platinum Nanocrystals with Size and Shape Control: Catalytic Study for Ethylene and Pyrrole Hydrogenation. <i>Journal of the American Chemical Society</i> , 2009, 131, 5816-5822.	6.6	480
5	Nanocrystal bilayer for tandem catalysis. <i>Nature Chemistry</i> , 2011, 3, 372-376.	6.6	466
6	Size Effect of Ruthenium Nanoparticles in Catalytic Carbon Monoxide Oxidation. <i>Nano Letters</i> , 2010, 10, 2709-2713.	4.5	379
7	Pt Nanoclusters Confined within Metal-Organic Framework Cavities for Chemoselective Cinnamaldehyde Hydrogenation. <i>ACS Catalysis</i> , 2014, 4, 1340-1348.	5.5	367
8	Water-dispersible PEG-curcumin/amine-functionalized covalent organic framework nanocomposites as smart carriers for in vivo drug delivery. <i>Nature Communications</i> , 2018, 9, 2785.	5.8	353
9	Room-Temperature Formation of Hollow Cu ₂ O Nanoparticles. <i>Advanced Materials</i> , 2010, 22, 1910-1914.	11.1	308
10	Converting homogeneous to heterogeneous in electrophilic catalysis using monodisperse metal nanoparticles. <i>Nature Chemistry</i> , 2010, 2, 36-41.	6.6	277
11	Sub-4 nm PtZn Intermetallic Nanoparticles for Enhanced Mass and Specific Activities in Catalytic Electrooxidation Reaction. <i>Journal of the American Chemical Society</i> , 2017, 139, 4762-4768.	6.6	265
12	Catalytic upcycling of high-density polyethylene via a processive mechanism. <i>Nature Catalysis</i> , 2020, 3, 893-901.	16.1	262
13	Dendrimer Templated Synthesis of One Nanometer Rh and Pt Particles Supported on Mesoporous Silica: Catalytic Activity for Ethylene and Pyrrole Hydrogenation. <i>Nano Letters</i> , 2008, 8, 2027-2034.	4.5	254
14	Highly Selective Synthesis of Catalytically Active Monodisperse Rhodium Nanocubes. <i>Journal of the American Chemical Society</i> , 2008, 130, 5868-5869.	6.6	226
15	Structure Sensitivity of Carbon-Nitrogen Ring Opening: Impact of Platinum Particle Size from below 1 to 5 nm upon Pyrrole Hydrogenation Product Selectivity over Monodisperse Platinum Nanoparticles Loaded onto Mesoporous Silica. <i>Journal of the American Chemical Society</i> , 2008, 130, 14026-14027.	6.6	226
16	Tandem Catalysis by Palladium Nanoclusters Encapsulated in Metal-Organic Frameworks. <i>ACS Catalysis</i> , 2014, 4, 3490-3497.	5.5	187
17	Effect of organic capping layers over monodisperse platinum nanoparticles upon activity for ethylene hydrogenation and carbon monoxide oxidation. <i>Journal of Catalysis</i> , 2009, 265, 209-215.	3.1	170
18	Controlling Catalytic Properties of Pd Nanoclusters through Their Chemical Environment at the Atomic Level Using Isorecticular Metal-Organic Frameworks. <i>ACS Catalysis</i> , 2016, 6, 3461-3468.	5.5	152

#	ARTICLE	IF	CITATIONS
19	A Ship-in-a-Bottle Strategy To Synthesize Encapsulated Intermetallic Nanoparticle Catalysts: Exemplified for Furfural Hydrogenation. ACS Catalysis, 2016, 6, 1754-1763.	5.5	148
20	Defect-Rich 2D Material Networks for Advanced Oxygen Evolution Catalysts. ACS Energy Letters, 2019, 4, 328-336.	8.8	148
21	Conversion of Levulinic Acid to β -Valerolactone over Few-Layer Graphene-Supported Ruthenium Catalysts. ACS Catalysis, 2016, 6, 593-599.	5.5	145
22	The Effect of Plasmon Field on the Coherent Lattice Phonon Oscillation in Electron-Beam Fabricated Gold Nanoparticle Pairs. Nano Letters, 2007, 7, 3227-3234.	4.5	141
23	In Situ Formed Pt ₃ Ti Nanoparticles on a Two-Dimensional Transition Metal Carbide (MXene) Used as Efficient Catalysts for Hydrogen Evolution Reactions. Nano Letters, 2019, 19, 5102-5108.	4.5	133
24	Integrating Rh Species with NiFe-Layered Double Hydroxide for Overall Water Splitting. Nano Letters, 2020, 20, 136-144.	4.5	129
25	Self-Organized Ultrathin Oxide Nanocrystals. Nano Letters, 2009, 9, 1260-1264.	4.5	121
26	Utilizing mixed-linker zirconium based metal-organic frameworks to enhance the visible light photocatalytic oxidation of alcohol. Chemical Engineering Science, 2015, 124, 45-51.	1.9	112
27	Furan Hydrogenation over Pt(111) and Pt(100) Single-Crystal Surfaces and Pt Nanoparticles from 1 to 7 nm: A Kinetic and Sum Frequency Generation Vibrational Spectroscopy Study. Journal of the American Chemical Society, 2010, 132, 13088-13095.	6.6	108
28	Highly Active Heterogeneous Palladium Nanoparticle Catalysts for Homogeneous Electrophilic Reactions in Solution and the Utilization of a Continuous Flow Reactor. Journal of the American Chemical Society, 2010, 132, 16771-16773.	6.6	104
29	In situ quantitative single-molecule study of dynamic catalytic processes in nanoconfinement. Nature Catalysis, 2018, 1, 135-140.	16.1	99
30	Effect of the Lattice Crystallinity on the Electron-Phonon Relaxation Rates in Gold Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 10751-10757.	1.5	94
31	A Pt-Cluster-Based Heterogeneous Catalyst for Homogeneous Catalytic Reactions: X-ray Absorption Spectroscopy and Reaction Kinetic Studies of Their Activity and Stability against Leaching. Journal of the American Chemical Society, 2011, 133, 13527-13533.	6.6	94
32	Encapsulation of Nonprecious Metal into Ordered Mesoporous N-Doped Carbon for Efficient Quinoline Transfer Hydrogenation with Formic Acid. ACS Catalysis, 2018, 8, 8396-8405.	5.5	93
33	The Optically Detected Coherent Lattice Oscillations in Silver and Gold Monolayer Periodic Nanoprism Arrays: The Effect of Interparticle Coupling. Journal of Physical Chemistry B, 2005, 109, 18881-18888.	1.2	92
34	Catalytic properties of Pt cluster-decorated CeO ₂ nanostructures. Nano Research, 2011, 4, 61-71.	5.8	91
35	Using a Multi-Shelled Hollow Metal-Organic Framework as a Host to Switch the Guest-Host and Guest-Guest Interactions. Angewandte Chemie - International Edition, 2018, 57, 2110-2114.	7.2	91
36	Impact of Linker Engineering on the Catalytic Activity of Metal-Organic Frameworks Containing Pd(II)-Bipyridine Complexes. ACS Catalysis, 2016, 6, 6324-6328.	5.5	89

#	ARTICLE	IF	CITATIONS
37	Cooperative Multifunctional Catalysts for Nitrone Synthesis: Platinum Nanoclusters in Amine-Functionalized Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16371-16375.	7.2	87
38	Coherent Vibrational Oscillation in Gold Prismatic Monolayer Periodic Nanoparticle Arrays. <i>Nano Letters</i> , 2004, 4, 1741-1747.	4.5	86
39	Catalysis on Singly Dispersed Rh Atoms Anchored on an Inert Support. <i>ACS Catalysis</i> , 2018, 8, 110-121.	5.5	81
40	DNP-Enhanced Ultrawideband Solid-State NMR Spectroscopy: Studies of Platinum in Metal-Organic Frameworks. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2322-2327.	2.1	77
41	Silica-Encapsulated Pt-Sn Intermetallic Nanoparticles: A Robust Catalytic Platform for Parahydrogen-Induced Polarization of Gases and Liquids. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3925-3929.	7.2	73
42	Time-Resolved Investigation of the Acoustic Vibration of a Single Gold Nanoprism Pair. <i>Journal of Physical Chemistry C</i> , 2008, 112, 11231-11235.	1.5	68
43	Spectroscopic Study of Platinum and Rhodium Dendrimer (PAMAM G4OH) Compounds: Structure and Stability. <i>Journal of Physical Chemistry C</i> , 2011, 115, 4757-4767.	1.5	68
44	Near-Monodisperse Ni-Cu Bimetallic Nanocrystals of Variable Composition: Controlled Synthesis and Catalytic Activity for H ₂ Generation. <i>Journal of Physical Chemistry C</i> , 2008, 112, 12092-12095.	1.5	67
45	Rh _{1-x} Pd _x nanoparticle composition dependence in CO oxidation by oxygen: catalytic activity enhancement in bimetallic systems. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 2556-2562.	1.3	66
46	Metal-Organic Framework-Derived Carbons: Applications as Solid-Base Catalyst and Support for Pd Nanoparticles in Tandem Catalysis. <i>Chemistry - A European Journal</i> , 2017, 23, 4266-4270.	1.7	66
47	Dispersion of Potassium Nitrate and the Resulting Strong Basicity on Zirconia. <i>Chemistry of Materials</i> , 2001, 13, 670-677.	3.2	64
48	Size-Controlled Nanoparticles Embedded in a Mesoporous Architecture Leading to Efficient and Selective Hydrogenolysis of Polyolefins. <i>Journal of the American Chemical Society</i> , 2022, 144, 5323-5334.	6.6	60
49	Intermetallic structures with atomic precision for selective hydrogenation of nitroarenes. <i>Journal of Catalysis</i> , 2017, 356, 307-314.	3.1	53
50	Photothermal reshaping of prismatic Au nanoparticles in periodic monolayer arrays by femtosecond laser pulses. <i>Journal of Applied Physics</i> , 2005, 98, 114301.	1.1	50
51	Morphology inheritance from hollow MOFs to hollow carbon polyhedrons in preparing carbon-based electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6186-6192.	5.2	50
52	Reshaping, Intermixing, and Coarsening for Metallic Nanocrystals: Nonequilibrium Statistical Mechanical and Coarse-Grained Modeling. <i>Chemical Reviews</i> , 2019, 119, 6670-6768.	23.0	50
53	Synthesis and characterization of potassium-modified alumina superbases. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 2537-2543.	1.3	46
54	Intermetallic NaAu ₂ as a Heterogeneous Catalyst for Low-Temperature CO Oxidation. <i>Journal of the American Chemical Society</i> , 2013, 135, 9592-9595.	6.6	46

#	ARTICLE	IF	CITATIONS
55	Conversion of confined metal@ZIF-8 structures to intermetallic nanoparticles supported on nitrogen-doped carbon for electrocatalysis. <i>Nano Research</i> , 2018, 11, 3469-3479.	5.8	46
56	Gold Nanoparticles Propulsion from Surface Fueled by Absorption of Femtosecond Laser Pulse at Their Surface Plasmon Resonance. <i>Journal of the American Chemical Society</i> , 2006, 128, 13330-13331.	6.6	45
57	Toward Phase and Catalysis Control: Tracking the Formation of Intermetallic Nanoparticles at Atomic Scale. <i>CheM</i> , 2019, 5, 1235-1247.	5.8	45
58	Deciphering nanoconfinement effects on molecular orientation and reaction intermediate by single molecule imaging. <i>Nature Communications</i> , 2019, 10, 4815.	5.8	44
59	Seedless Polyol Synthesis and CO Oxidation Activity of Monodisperse (111)- and (100)-Oriented Rhodium Nanocrystals in Sub-10 nm Sizes. <i>Langmuir</i> , 2010, 26, 16463-16468.	1.6	43
60	A Three-Dimensional Microporous Metal-Organic Framework. <i>Inorganic Chemistry</i> , 2015, 54, 200-204.	1.9	42
61	Spectroscopy Identification of the Bimetallic Surface of Metal-Organic Framework-Confined Pt-Sn Nanoclusters with Enhanced Chemoselectivity in Furfural Hydrogenation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23254-23260.	4.0	41
62	Identifying the Molecular Edge Termination of Exfoliated Hexagonal Boron Nitride Nanosheets with Solid-State NMR Spectroscopy and Plane-Wave DFT Calculations. <i>Chemistry of Materials</i> , 2020, 32, 3109-3121.	3.2	41
63	Rhodium Nanoparticle Shape Dependence in the Reduction of NO by CO. <i>Catalysis Letters</i> , 2009, 132, 317-322.	1.4	39
64	Silica-Encapsulated Pt-Sn Intermetallic Nanoparticles: A Robust Catalytic Platform for Parahydrogen-Induced Polarization of Gases and Liquids. <i>Angewandte Chemie</i> , 2017, 129, 3983-3987.	1.6	37
65	Indirect detection of infinite-speed MAS solid-state NMR spectra. <i>Journal of Magnetic Resonance</i> , 2017, 276, 95-102.	1.2	36
66	Superbase derived from zirconia-supported potassium nitrate. <i>Materials Letters</i> , 2000, 46, 198-204.	1.3	35
67	Selective Host-Guest Interaction between Metal Ions and Metal-Organic Frameworks Using Dynamic Nuclear Polarization Enhanced Solid-State NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2014, 20, 16308-16313.	1.7	35
68	High-Temperature-Stable and Regenerable Catalysts: Platinum Nanoparticles in Aligned Mesoporous Silica Wells. <i>ChemSusChem</i> , 2013, 6, 1915-1922.	3.6	34
69	Single molecule fluorescence imaging of nanoconfinement in porous materials. <i>Chemical Society Reviews</i> , 2021, 50, 6483-6506.	18.7	33
70	Creating an Aligned Interface between Nanoparticles and MOFs by Concurrent Replacement of Capping Agents. <i>Journal of the American Chemical Society</i> , 2021, 143, 5182-5190.	6.6	32
71	Thermal Unequilibrium of PdSn Intermetallic Nanocatalysts: From In Situ Tailored Synthesis to Unexpected Hydrogenation Selectivity. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18309-18317.	7.2	32
72	Surface-Mediated Hyperpolarization of Liquid Water from Parahydrogen. <i>CheM</i> , 2018, 4, 1387-1403.	5.8	31

#	ARTICLE	IF	CITATIONS
73	Single Molecule Investigation of Nanoconfinement Hydrophobicity in Heterogeneous Catalysis. <i>Journal of the American Chemical Society</i> , 2020, 142, 13305-13309.	6.6	31
74	^1H -Noise eliminated dipolar heteronuclear multiple-quantum coherence solid-state NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 20815-20828.	1.3	31
75	Rh^xPd^y Nanoparticle Composition Dependence in CO Oxidation by NO. <i>Catalysis Letters</i> , 2011, 141, 235-241.	1.4	30
76	Cooperative Multifunctional Catalysts for Nitrene Synthesis: Platinum Nanoclusters in Amine-Functionalized Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2017, 129, 16589-16593.	1.6	30
77	Catalytic properties of intermetallic platinum-tin nanoparticles with non-stoichiometric compositions. <i>Journal of Catalysis</i> , 2019, 374, 136-142.	3.1	29
78	Deciphering a Reaction Network for the Switchable Production of Tetrahydroquinoline or Quinoline with MOF-Supported Pd Tandem Catalysts. <i>ACS Catalysis</i> , 2020, 10, 5707-5714.	5.5	29
79	Topochemical Deintercalation of Li from Layered LiNiB: toward 2D MBene. <i>Journal of the American Chemical Society</i> , 2021, 143, 4213-4223.	6.6	28
80	Intermetallic Nanocatalyst for Highly Active Heterogeneous Hydroformylation. <i>Journal of the American Chemical Society</i> , 2021, 143, 20907-20915.	6.6	28
81	Improved strategies for DNP-enhanced 2D ^1H -X heteronuclear correlation spectroscopy of surfaces. <i>Solid State Nuclear Magnetic Resonance</i> , 2017, 87, 38-44.	1.5	27
82	Transition metal-like carbocatalyst. <i>Nature Communications</i> , 2020, 11, 4091.	5.8	27
83	Facile Fabrication of Hierarchical MOF-Metal Nanoparticle Tandem Catalysts for the Synthesis of Bioactive Molecules. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 23002-23009.	4.0	27
84	Green synthesis of amphiphilic carbon dots from organic solvents: application in fluorescent polymer composites and bio-imaging. <i>RSC Advances</i> , 2018, 8, 12556-12561.	1.7	26
85	Kinetics, energetics, and size dependence of the transformation from Pt to ordered PtSn intermetallic nanoparticles. <i>Nanoscale</i> , 2019, 11, 5336-5345.	2.8	25
86	Geometry-Assisted Three-Dimensional Superlocalization Imaging of Single-Molecule Catalysis on Modular Multilayer Nanocatalysts. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12865-12869.	7.2	24
87	In Situ X-ray Absorption Spectroscopy Studies of Kinetic Interaction between Platinum(II) Ions and UiO-66 Series Metal-Organic Frameworks. <i>Journal of Physical Chemistry B</i> , 2014, 118, 14168-14176.	1.2	22
88	MOF-253-Pd(OAc) ₂ : a recyclable MOF for transition-metal catalysis in water. <i>RSC Advances</i> , 2016, 6, 56330-56334.	1.7	22
89	Allylic oxidation of olefins with a manganese-based metal-organic framework. <i>Green Chemistry</i> , 2019, 21, 3629-3636.	4.6	22
90	Strain-Enhanced Metallic Intermixing in Shape-Controlled Multilayered Core-Shell Nanostructures: Toward Shaped Intermetallics. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10574-10580.	7.2	22

#	ARTICLE	IF	CITATIONS
91	Using a Multi-Shell Hollow Metal-Organic Framework as a Host to Switch the Guest-Host and Guest-Guest Interactions. <i>Angewandte Chemie</i> , 2018, 130, 2132-2136.	1.6	22
92	An inorganic capping strategy for the seeded growth of versatile bimetallic nanostructures. <i>Nanoscale</i> , 2015, 7, 16721-16728.	2.8	21
93	Using silica films and powders modified with benzophenone to photoreduce silver nanoparticles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 181, 385-393.	2.0	20
94	Tuning surface properties of amino-functionalized silica for metal nanoparticle loading: The vital role of an annealing process. <i>Surface Science</i> , 2016, 648, 299-306.	0.8	20
95	Aerobic oxidation of the C-H bond under ambient conditions using highly dispersed Co over highly porous N-doped carbon. <i>Green Chemistry</i> , 2019, 21, 1461-1466.	4.6	20
96	The impact of synthetic method on the catalytic application of intermetallic nanoparticles. <i>Nanoscale</i> , 2020, 12, 18545-18562.	2.8	20
97	Hydrazone-Linked Heptazine Polymeric Carbon Nitrides for Synergistic Visible-Light-Driven Catalysis. <i>Chemistry - A European Journal</i> , 2020, 26, 7358-7364.	1.7	20
98	Unveiling the Effects of Linker Substitution in Suzuki Coupling with Palladium Nanoparticles in Metal-Organic Frameworks. <i>Catalysis Letters</i> , 2018, 148, 940-945.	1.4	19
99	Probing the Interface between Encapsulated Nanoparticles and Metal-Organic Frameworks for Catalytic Selectivity Control. <i>Chemistry of Materials</i> , 2021, 33, 1946-1953.	3.2	19
100	Gigahertz Optical Modulation Resulting from Coherent Lattice Oscillations Induced by Femtosecond Laser Pumping of 2D Photonic Crystals of Gold-Capped Polystyrene Microspheres. <i>Advanced Materials</i> , 2008, 20, 733-737.	11.1	18
101	Synthesis of Monodisperse Palladium Nanoclusters Using Metal-Organic Frameworks as Sacrificial Templates. <i>ChemNanoMat</i> , 2016, 2, 810-815.	1.5	18
102	Photothermally excited coherent lattice phonon oscillations in plasmonic nanoparticles. <i>European Physical Journal: Special Topics</i> , 2008, 153, 325-333.	1.2	16
103	Influence of Sn on Stability and Selectivity of Pt-Sn@UiO-66-NH ₂ in Furfural Hydrogenation. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 17495-17501.	1.8	16
104	MXene-Supported, Atomic-Layered Iridium Catalysts Created by Nanoparticle Re-Dispersion for Efficient Alkaline Hydrogen Evolution. <i>Small</i> , 2022, 18, e2105226.	5.2	16
105	Influence of reaction with XeF ₂ on surface adhesion of Al and Al ₂ O ₃ surfaces. <i>Applied Physics Letters</i> , 2008, 93, 141905.	1.5	15
106	Room-Temperature Tandem Condensation-Hydrogenation Catalyzed by Porous C ₃ N ₄ Nanosheet-Supported Pd Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3356-3363.	3.2	15
107	Sub-5-nm Intermetallic Nanoparticles Confined in Mesoporous Silica Wells for Selective Hydrogenation of Acetylene to Ethylene. <i>ChemCatChem</i> , 2020, 12, 3022-3029.	1.8	14
108	Cyclopropane Hydrogenation vs Isomerization over Pt and Pt-Sn Intermetallic Nanoparticle Catalysts: A Parahydrogen Spin-Labeling Study. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8304-8309.	1.5	14

#	ARTICLE	IF	CITATIONS
109	A Pd(II)-Functionalized Covalent Organic Framework for Catalytic Conjugate Additions of Arylboronic Acids to β,β -Disubstituted Enones. <i>ChemCatChem</i> , 2019, 11, 4286-4290.	1.8	13
110	An inexpensive apparatus for up to 97% continuous-flow parahydrogen enrichment using liquid helium. <i>Journal of Magnetic Resonance</i> , 2020, 321, 106869.	1.2	13
111	Precisely Controlled Synthesis of Hybrid Intermetallic-Metal Nanoparticles for Nitrate Electroreduction. <i>ACS Applied Materials & Interfaces</i> , 0, , .	4.0	13
112	General Synthetic Strategy to Ordered Mesoporous Carbon Catalysts with Single-Atom Metal Sites for Electrochemical CO ₂ Reduction. <i>Small</i> , 2022, 18, e2107799.	5.2	13
113	Pulsed laser photothermal annealing and ablation of plasmonic nanoparticles. <i>European Physical Journal: Special Topics</i> , 2008, 153, 223-230.	1.2	12
114	Microtribological behavior of Mo and W nanoparticle/graphene composites. <i>Wear</i> , 2018, 414-415, 310-316.	1.5	12
115	Tandem Condensation-Hydrogenation to Produce Alkylated Nitriles Using Bifunctional Catalysts: Platinum Nanoparticles Supported on MOF-Derived Carbon. <i>ChemCatChem</i> , 2020, 12, 602-608.	1.8	12
116	Pairwise semi-hydrogenation of alkyne to <i>cis</i> -alkene on platinum-tin intermetallic compounds. <i>Nanoscale</i> , 2020, 12, 8519-8524.	2.8	12
117	Enhanced 1H-X-D-HMQC performance through improved 1H homonuclear decoupling. <i>Solid State Nuclear Magnetic Resonance</i> , 2019, 98, 12-18.	1.5	11
118	Palladium-gold bimetallic nanoparticle catalysts prepared by controlled release from metal-loaded interfacially cross-linked reverse micelles. <i>New Journal of Chemistry</i> , 2015, 39, 2459-2466.	1.4	10
119	Hybrid quantum-classical simulations of magic angle spinning dynamic nuclear polarization in very large spin systems. <i>Journal of Chemical Physics</i> , 2022, 156, 124112.	1.2	10
120	Atomic-Scale Structure of Mesoporous Silica-Encapsulated Pt and PtSn Nanoparticles Revealed by Dynamic Nuclear Polarization-Enhanced 29Si MAS NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 7299-7307.	1.5	9
121	Reshaping of Truncated Pd Nanocubes: Energetic and Kinetic Analysis Integrating Transmission Electron Microscopy with Atomistic-Level and Coarse-Grained Modeling. <i>ACS Nano</i> , 2020, 14, 8551-8561.	7.3	9
122	Regulating the Catalytic Activity of Pd Nanoparticles by Confinement in Ordered Mesoporous Supports. <i>ChemCatChem</i> , 2021, 13, 539-542.	1.8	9
123	Metal-free carbocatalyst for room temperature acceptorless dehydrogenation of N-heterocycles. <i>Science Advances</i> , 2022, 8, eabl9478.	4.7	9
124	Silica-Encapsulated Intermetallic Nanoparticles for Highly Active and Selective Heterogeneous Catalysis. <i>Accounts of Materials Research</i> , 2021, 2, 1190-1202.	5.9	8
125	Synthesis and Characterization of Mesoporous Silica Nanoparticles Loaded with Pt Catalysts. <i>Catalysts</i> , 2022, 12, 183.	1.6	8
126	Enhanced Chemoselectivity in Pt-Fe@mSiO ₂ Bimetallic Nanoparticles in the Absence of Surface Modifying Ligands. <i>Topics in Catalysis</i> , 2018, 61, 940-948.	1.3	7

#	ARTICLE	IF	CITATIONS
127	Thermal Unequilibrium of PdSn Intermetallic Nanocatalysts: From In Situ Tailored Synthesis to Unexpected Hydrogenation Selectivity. <i>Angewandte Chemie</i> , 2021, 133, 18457-18465.	1.6	7
128	Highly efficient and anti-poisoning single-atom cobalt catalyst for selective hydrogenation of nitroarenes. <i>Nano Research</i> , 2022, 15, 10006-10013.	5.8	7
129	Geometry-Assisted Three-Dimensional Superlocalization Imaging of Single-Molecule Catalysis on Modular Multilayer Nanocatalysts. <i>Angewandte Chemie</i> , 2014, 126, 13079-13083.	1.6	6
130	The (111) Surface of NaAu ₂ : Structure, Composition, and Stability. <i>Inorganic Chemistry</i> , 2015, 54, 1159-1164.	1.9	6
131	Self-Regulated Porosity and Reactivity in Mesoporous Heterogeneous Catalysts Using Colloidal Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2019, 123, 18410-18416.	1.5	5
132	Atomic-Level Structure of Mesoporous Hexagonal Boron Nitride Determined by High-Resolution Solid-State Multinuclear Magnetic Resonance Spectroscopy and Density Functional Theory Calculations. <i>Chemistry of Materials</i> , 0, , .	3.2	5
133	Mesoporous Silica Encapsulated Platinum-Tin Intermetallic Nanoparticles Catalyze Hydrogenation with an Unprecedented 20% Pairwise Selectivity for Parahydrogen Enhanced Nuclear Magnetic Resonance. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4125-4132.	2.1	4
134	t1-noise elimination by continuous chemical shift anisotropy refocusing. <i>Solid State Nuclear Magnetic Resonance</i> , 2022, 120, 101807.	1.5	4
135	Dendrimer-Encapsulated Metal Nanoparticles: Synthesis and Application in Catalysis. , 2014, , 65-91.		3
136	Interaction of oxygen with the (111) surface of NaAu ₂ . <i>Surface Science</i> , 2016, 650, 167-176.	0.8	3
137	Tandem Synthesis of γ -Caprolactam from Cyclohexanone by an Acidified Metal-Organic Framework. <i>ChemCatChem</i> , 2021, 13, 3084-3089.	1.8	3
138	General Synthetic Strategy to Ordered Mesoporous Carbon Catalysts with Single-Atom Metal Sites for Electrochemical CO ₂ Reduction (Small 16/2022). <i>Small</i> , 2022, 18, .	5.2	3
139	Path Less Traveled: A Contemporary Twist on Synthesis and Traditional Structure Solution of Metastable LiNi ₁₂ B ₈ . <i>ACS Materials Au</i> , 0, , .	2.6	3
140	Strain-Enhanced Metallic Intermixing in Shape-Controlled Multilayered Core-Shell Nanostructures: Toward Shaped Intermetallics. <i>Angewandte Chemie</i> , 2020, 132, 10661-10667.	1.6	2
141	In situ observation of the crystal structure transition of Pt-Sn intermetallic nanoparticles during deactivation and regeneration. <i>Chemical Communications</i> , 2021, 57, 5454-5457.	2.2	2
142	Shape Stability of Truncated Octahedral fcc Metal Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 51954-51961.	4.0	2
143	Optically detected coherent picosecond lattice oscillations in two dimensional arrays of gold nanocrystals of different sizes and shapes induced by femtosecond laser pulses. , 2005, 5927, 592701.		1
144	Ultrafast electronic and lattice processes of plasmonic nanoparticles of different shape. , 2006, , 260-273.		1

#	ARTICLE	IF	CITATIONS
145	Structure evolution of single-site Pt in a metal-organic framework. <i>Journal of Chemical Physics</i> , 2021, 154, 094710.	1.2	1
146	La-CHZ zeolites: efficient catalysts for acetic acid ketonic decarboxylation and esterification. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 2022-2032.	1.6	1
147	Tandem synthesis of tetrahydroquinolines and identification of the reaction network by <i>operando</i> NMR. <i>Catalysis Science and Technology</i> , 2021, 11, 4332-4341.	2.1	1