Wen-Yu Huang

List of Publications by Year
in descending order

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	Synthesis and Characterization of Mesoporous Silica Nanoparticles Loaded with Pt Catalysts. Catalysts, 2022, 12, 183.	1.6	8
2	Metal-free carbocatalyst for room temperature acceptorless dehydrogenation of N-heterocycles. Science Advances, 2022, 8, eabl9478.	4.7	9
3	Size-Controlled Nanoparticles Embedded in a Mesoporous Architecture Leading to Efficient and Selective Hydrogenolysis of Polyolefins. Journal of the American Chemical Society, 2022, 144, 5323-5334.	6.6	60
4	MXeneâ€Supported, Atomicâ€Layered Iridium Catalysts Created by Nanoparticle Reâ€Dispersion for Efficient Alkaline Hydrogen Evolution. Small, 2022, 18, e2105226.	5.2	16
5	General Synthetic Strategy to Ordered Mesoporous Carbon Catalysts with Singleâ€Atom Metal Sites for Electrochemical CO₂ Reduction. Small, 2022, 18, e2107799.	5.2	13
6	Hybrid quantum-classical simulations of magic angle spinning dynamic nuclear polarization in very large spin systems. Journal of Chemical Physics, 2022, 156, 124112.	1.2	10
7	Highly efficient and anti-poisoning single-atom cobalt catalyst for selective hydrogenation of nitroarenes. Nano Research, 2022, 15, 10006-10013.	5.8	7
8	General Synthetic Strategy to Ordered Mesoporous Carbon Catalysts with Singleâ€Atom Metal Sites for Electrochemical CO₂ Reduction (Small 16/2022). Small, 2022, 18, .	5.2	3
9	Mesoporous Silica Encapsulated Platinumâ€"Tin Intermetallic Nanoparticles Catalyze Hydrogenation with an Unprecedented 20% Pairwise Selectivity for Parahydrogen Enhanced Nuclear Magnetic Resonance. Journal of Physical Chemistry Letters, 2022, 13, 4125-4132.	2.1	4
10	t1-noise elimination by continuous chemical shift anisotropy refocusing. Solid State Nuclear Magnetic Resonance, 2022, 120, 101807.	1.5	4
11	Regulating the Catalytic Activity of Pd Nanoparticles by Confinement in Ordered Mesoporous Supports. ChemCatChem, 2021, 13, 539-542.	1.8	9
12	Probing the Interface between Encapsulated Nanoparticles and Metalâ€"Organic Frameworks for Catalytic Selectivity Control. Chemistry of Materials, 2021, 33, 1946-1953.	3.2	19
13	Single molecule fluorescence imaging of nanoconfinement in porous materials. Chemical Society Reviews, 2021, 50, 6483-6506.	18.7	33
14	In situ observation of the crystal structure transition of Ptâ€"Sn intermetallic nanoparticles during deactivation and regeneration. Chemical Communications, 2021, 57, 5454-5457.	2.2	2
15	Structure evolution of single-site Pt in a metalâ€"organic framework. Journal of Chemical Physics, 2021, 154, 094710.	1.2	1
16	Topochemical Deintercalation of Li from Layered LiNiB: toward 2D MBene. Journal of the American Chemical Society, 2021, 143, 4213-4223.	6.6	28
17	Creating an Aligned Interface between Nanoparticles and MOFs by Concurrent Replacement of Capping Agents. Journal of the American Chemical Society, 2021, 143, 5182-5190.	6.6	32
18	Laâ€Hâ€zeolites: efficient catalysts for acetic acid ketonic decarboxylation and esterification. Journal of Chemical Technology and Biotechnology, 2021, 96, 2022-2032.	1.6	1

#	Article	IF	Citations
19	Tandem Synthesis of Ïµâ€Caprolactam from Cyclohexanone by an Acidified Metalâ€organic Framework. ChemCatChem, 2021, 13, 3084-3089.	1.8	3
20	Shape Stability of Truncated Octahedral fcc Metal Nanocrystals. ACS Applied Materials & Interfaces, 2021, 13, 51954-51961.	4.0	2
21	Thermal Unequilibrium of PdSn Intermetallic Nanocatalysts: From In Situ Tailored Synthesis to Unexpected Hydrogenation Selectivity. Angewandte Chemie - International Edition, 2021, 60, 18309-18317.	7.2	32
22	Thermal Unequilibrium of PdSn Intermetallic Nanocatalysts: From In Situ Tailored Synthesis to Unexpected Hydrogenation Selectivity. Angewandte Chemie, 2021, 133, 18457-18465.	1.6	7
23	Tandem synthesis of tetrahydroquinolines and identification of the reaction network by <i>operando</i> NMR. Catalysis Science and Technology, 2021, 11, 4332-4341.	2.1	1
24	Silica-Encapsulated Intermetallic Nanoparticles for Highly Active and Selective Heterogeneous Catalysis. Accounts of Materials Research, 2021, 2, 1190-1202.	5.9	8
25	Intermetallic Nanocatalyst for Highly Active Heterogeneous Hydroformylation. Journal of the American Chemical Society, 2021, 143, 20907-20915.	6.6	28
26	Tandem Condensationâ€Hydrogenation to Produce Alkylated Nitriles Using Bifunctional Catalysts: Platinum Nanoparticles Supported on MOFâ€Derived Carbon. ChemCatChem, 2020, 12, 602-608.	1.8	12
27	Integrating Rh Species with NiFe-Layered Double Hydroxide for Overall Water Splitting. Nano Letters, 2020, 20, 136-144.	4.5	129
28	Catalytic upcycling of high-density polyethylene via a processive mechanism. Nature Catalysis, 2020, 3, 893-901.	16.1	262
29	Single Molecule Investigation of Nanoconfinement Hydrophobicity in Heterogeneous Catalysis. Journal of the American Chemical Society, 2020, 142, 13305-13309.	6.6	31
30	Transition metal-like carbocatalyst. Nature Communications, 2020, 11, 4091.	5.8	27
31	<i>t</i>₁-Noise eliminated dipolar heteronuclear multiple-quantum coherence solid-state NMR spectroscopy. Physical Chemistry Chemical Physics, 2020, 22, 20815-20828.	1.3	31
32	The impact of synthetic method on the catalytic application of intermetallic nanoparticles. Nanoscale, 2020, 12, 18545-18562.	2.8	20
33	An inexpensive apparatus for up to 97% continuous-flow parahydrogen enrichment using liquid helium. Journal of Magnetic Resonance, 2020, 321, 106869.	1.2	13
34	Subâ€5â€…nm Intermetallic Nanoparticles Confined in Mesoporous Silica Wells for Selective Hydrogenation of Acetylene to Ethylene. ChemCatChem, 2020, 12, 3022-3029.	1.8	14
35	Deciphering a Reaction Network for the Switchable Production of Tetrahydroquinoline or Quinoline with MOF-Supported Pd Tandem Catalysts. ACS Catalysis, 2020, 10, 5707-5714.	5.5	29
36	Strainâ€Enhanced Metallic Intermixing in Shapeâ€Controlled Multilayered Coreâ€“Shell Nanostructures: Toward Shaped Intermetallics. Angewandte Chemie - International Edition, 2020, 59, 10574-10580.	7.2	22

#	Article	IF	Citations
37	Strainâ€Enhanced Metallic Intermixing in Shapeâ€Controlled Multilayered Coreâ€"Shell Nanostructures: Toward Shaped Intermetallics. Angewandte Chemie, 2020, 132, 10661-10667.	1.6	2
38	Pairwise semi-hydrogenation of alkyne to <i>cis</i>-alkene on platinum-tin intermetallic compounds. Nanoscale, 2020, 12, 8519-8524.	2.8	12
39	Reshaping of Truncated Pd Nanocubes: Energetic and Kinetic Analysis Integrating Transmission Electron Microscopy with Atomistic-Level and Coarse-Grained Modeling. ACS Nano, 2020, 14, 8551-8561.	7.3	9
40	Hydrazoneâ€Linked Heptazine Polymeric Carbon Nitrides for Synergistic Visibleâ€Lightâ€Driven Catalysis. Chemistry - A European Journal, 2020, 26, 7358-7364.	1.7	20
41	Identifying the Molecular Edge Termination of Exfoliated Hexagonal Boron Nitride Nanosheets with Solid-State NMR Spectroscopy and Plane-Wave DFT Calculations. Chemistry of Materials, 2020, 32, 3109-3121.	3.2	41
42	Facile Fabrication of Hierarchical MOFâ€"Metal Nanoparticle Tandem Catalysts for the Synthesis of Bioactive Molecules. ACS Applied Materials & Interfaces, 2020, 12, 23002-23009.	4.0	27
43	Influence of Sn on Stability and Selectivity of Ptâ€"Sn@UiO-66-NH₂ in Furfural Hydrogenation. Industrial & Engineering Chemistry Research, 2020, 59, 17495-17501.	1.8	16
44	Cyclopropane Hydrogenation vs Isomerization over Pt and Ptâ€"Sn Intermetallic Nanoparticle Catalysts: A Parahydrogen Spin-Labeling Study. Journal of Physical Chemistry C, 2020, 124, 8304-8309.	1.5	14
45	Self-Regulated Porosity and Reactivity in Mesoporous Heterogeneous Catalysts Using Colloidal Nanocrystals. Journal of Physical Chemistry C, 2019, 123, 18410-18416.	1.5	5
46	In Situ Formed Pt₃Ti 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
47	Deciphering nanoconfinement effects on molecular orientation and reaction intermediate by single molecule imaging. Nature Communications, 2019, 10, 4815.	5.8	44
48	Spectroscopy Identification of the Bimetallic Surface of Metalâ€"Organic Framework-Confined Ptâ€"Sn Nanoclusters with Enhanced Chemoselectivity in Furfural Hydrogenation. ACS Applied Materials & Interfaces, 2019, 11, 23254-23260.	4.0	41
49	A Pd(II)â€Functionalized Covalent Organic Framework for Catalytic Conjugate Additions of Arylboronic Acids to Î²,Î²â€Disubstituted Enones. ChemCatChem, 2019, 11, 4286-4290.	1.8	13
50	Allylic oxidation of olefins with a manganese-based metalâ€"organic framework. Green Chemistry, 2019, 21, 3629-3636.	4.6	22
51	Reshaping, Intermixing, and Coarsening for Metallic Nanocrystals: Nonequilibrium Statistical Mechanical and Coarse-Grained Modeling. Chemical Reviews, 2019, 119, 6670-6768.	23.0	50
52	Catalytic properties of intermetallic platinum-tin nanoparticles with non-stoichiometric compositions. Journal of Catalysis, 2019, 374, 136-142.	3.1	29
53	Atomic-Scale Structure of Mesoporous Silica-Encapsulated Pt and PtSn Nanoparticles Revealed by Dynamic Nuclear Polarization-Enhanced 29Si MAS NMR Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 7299-7307.	1.5	9
54	Toward Phase and Catalysis Control: Tracking the Formation of Intermetallic Nanoparticles at Atomic Scale. CheM, 2019, 5, 1235-1247.	5.8	45

#	Article	IF	Citations
55	Kinetics, energetics, and size dependence of the transformation from Pt to ordered PtSn intermetallic nanoparticles. Nanoscale, 2019, 11, 5336-5345.	2.8	25
56	Aerobic oxidation of the Câ€"H bond under ambient conditions using highly dispersed Co over highly porous N-doped carbon. Green Chemistry, 2019, 21, 1461-1466.	4.6	20
57	Defect-Rich 2D Material Networks for Advanced Oxygen Evolution Catalysts. ACS Energy Letters, 2019, 4, 328-336.	8.8	148
58	Room-Temperature Tandem Condensation-Hydrogenation Catalyzed by Porous C3N4 Nanosheet-Supported Pd Nanoparticles. ACS Sustainable Chemistry and Engineering, 2019, 7, 3356-3363.	3.2	15
59	Enhanced 1H-X D-HMQC performance through improved 1H homonuclear decoupling. Solid State Nuclear Magnetic Resonance, 2019, 98, 12-18.	1.5	11
60	Conversion of confined metal@ZIF-8 structures to intermetallic nanoparticles supported on nitrogen-doped carbon for electrocatalysis. Nano Research, 2018, 11, 3469-3479.	5.8	46
61	Surface-Mediated Hyperpolarization of Liquid Water from Parahydrogen. CheM, 2018, 4, 1387-1403.	5.8	31
62	Green synthesis of amphiphilic carbon dots from organic solvents: application in fluorescent polymer composites and bio-imaging. RSC Advances, 2018, 8, 12556-12561.	1.7	26
63	Unveiling the Effects of Linker Substitution in Suzuki Coupling with Palladium Nanoparticles in Metalâ€"Organic Frameworks. Catalysis Letters, 2018, 148, 940-945.	1.4	19
64	In situ quantitative single-molecule study of dynamic catalytic processes in nanoconfinement. Nature Catalysis, 2018, 1, 135-140.	16.1	99
65	Using a Multiâ€Shelled Hollow Metalâ€"Organic Framework as a Host to Switch the Guestâ€toâ€Host and Guestâ€toâ€Guest Interactions. Angewandte Chemie - International Edition, 2018, 57, 2110-2114.	7.2	91
66	Enhanced Chemoselectivity in Ptâ€"Fe@mSiO2 Bimetallic Nanoparticles in the Absence of Surface Modifying Ligands. Topics in Catalysis, 2018, 61, 940-948.	1.3	7
67	Catalysis on Singly Dispersed Rh Atoms Anchored on an Inert Support. ACS Catalysis, 2018, 8, 110-121.	5.5	81
68	Microtribological behavior of Mo and W nanoparticle/graphene composites. Wear, 2018, 414-415, 310-316.	1.5	12
69	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
70	Water-dispersible PEG-curcumin/amine-functionalized covalent organic framework nanocomposites as smart carriers for in vivo drug delivery. Nature Communications, 2018, 9, 2785.	5.8	353
71	Using a Multiâ€Shelled Hollow Metalâ€"Organic Framework as a Host to Switch the Guestâ€toâ€Host and Guestâ€toâ€Guest Interactions. Angewandte Chemie, 2018, 130, 2132-2136.	1.6	22
72	Indirect detection of infinite-speed MAS solid-state NMR spectra. Journal of Magnetic Resonance, 2017, 276, 95-102.	1.2	36

#	Article	IF	Citations
73	Morphology inherence from hollow MOFs to hollow carbon polyhedrons in preparing carbon-based electrocatalysts. Journal of Materials Chemistry A, 2017, 5, 6186-6192.	5.2	50
74	Sub-4 nm PtZn Intermetallic Nanoparticles for Enhanced Mass and Specific Activities in Catalytic Electrooxidation Reaction. Journal of the American Chemical Society, 2017, 139, 4762-4768.	6.6	265
75	Silicaâ€Encapsulated Ptâ€Sn Intermetallic Nanoparticles: A Robust Catalytic Platform for Parahydrogenâ€Induced Polarization of Gases and Liquids. Angewandte Chemie - International Edition, 2017, 56, 3925-3929.	7.2	73
76	Metalâ€"Organicâ€Frameworkâ€Derived Carbons: Applications as Solidâ€Base Catalyst and Support for Pd Nanoparticles in Tandem Catalysis. Chemistry - A European Journal, 2017, 23, 4266-4270.	1.7	66
77	Silicaâ€Encapsulated Ptâ€Sn Intermetallic Nanoparticles: A Robust Catalytic Platform for Parahydrogenâ€Induced Polarization of Gases and Liquids. Angewandte Chemie, 2017, 129, 3983-3987.	1.6	37
78	Cooperative Multifunctional Catalysts for Nitrone Synthesis: Platinum Nanoclusters in Amineâ€Functionalized Metalâ€"Organic Frameworks. Angewandte Chemie, 2017, 129, 16589-16593.	1.6	30
79	Cooperative Multifunctional Catalysts for Nitrone Synthesis: Platinum Nanoclusters in Amineâ€Functionalized Metalâ€"Organic Frameworks. Angewandte Chemie - International Edition, 2017, 56, 16371-16375.	7.2	87
80	Improved strategies for DNP-enhanced 2D 1H-X heteronuclear correlation spectroscopy of surfaces. Solid State Nuclear Magnetic Resonance, 2017, 87, 38-44.	1.5	27
81	Intermetallic structures with atomic precision for selective hydrogenation of nitroarenes. Journal of Catalysis, 2017, 356, 307-314.	3.1	53
82	Synthesis of Monodisperse Palladium Nanoclusters Using Metalâ€"Organic Frameworks as Sacrificial Templates. ChemNanoMat, 2016, 2, 810-815.	1.5	18
83	Controlling Catalytic Properties of Pd Nanoclusters through Their Chemical Environment at the Atomic Level Using Isoreticular Metalâ€"Organic Frameworks. ACS Catalysis, 2016, 6, 3461-3468.	5.5	152
84	Impact of Linker Engineering on the Catalytic Activity of Metalâ€"Organic Frameworks Containing Pd(II)â€"Bipyridine Complexes. ACS Catalysis, 2016, 6, 6324-6328.	5.5	89
85	MOF-253-Pd(OAc)₂: a recyclable MOF for transition-metal catalysis in water. RSC Advances, 2016, 6, 56330-56334.	1.7	22
86	Interaction of oxygen with the (111) surface of NaAu2. Surface Science, 2016, 650, 167-176.	0.8	3
87	DNP-Enhanced Ultrawideline Solid-State NMR Spectroscopy: Studies of Platinum in Metalâ€"Organic Frameworks. Journal of Physical Chemistry Letters, 2016, 7, 2322-2327.	2.1	77
88	Conversion of Levulinic Acid to Î³-Valerolactone over Few-Layer Graphene-Supported Ruthenium Catalysts. ACS Catalysis, 2016, 6, 593-599.	5.5	145
89	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
90	Tuning surface properties of amino-functionalized silica for metal nanoparticle loading: The vital role of an annealing process. Surface Science, 2016, 648, 299-306.	0.8	20

#	Article	IF	Citations
91	An inorganic capping strategy for the seeded growth of versatile bimetallic nanostructures. Nanoscale, 2015, 7, 16721-16728.	2.8	21
92	The (111) Surface of NaAu₂: Structure, Composition, and Stability. Inorganic Chemistry, 2015, 54, 1159-1164.	1.9	6
93	Palladiumâ€“gold bimetallic nanoparticle catalysts prepared by â€œcontrolled releaseâ€from metal-loaded interfacially cross-linked reverse micelles. New Journal of Chemistry, 2015, 39, 2459-2466.	1.4	10
94	A Three-Dimensional Microporous Metalâ€“Metalloporphyrin Framework. Inorganic Chemistry, 2015, 54, 200-204.	1.9	42
95	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
96	Selective Hostâ€“Guest Interaction between Metal Ions and Metalâ€“Organic Frameworks Using Dynamic Nuclear Polarization Enhanced Solidâ€State NMR Spectroscopy. Chemistry - A European Journal, 2014, 20, 16308-16313.	1.7	35
97	Dendrimer-Encapsulated Metal Nanoparticles: Synthesis and Application in Catalysis. , 2014, , 65-91.		3
98	Highly Crystalline Multimetallic Nanoframes with Three-Dimensional Electrocatalytic Surfaces. Science, 2014, 343, 1339-1343.	6.0	2,376
99	In Situ X-ray Absorption Spectroscopy Studies of Kinetic Interaction between Platinum(II) Ions and UiO-66 Series Metalâ€“Organic Frameworks. Journal of Physical Chemistry B, 2014, 118, 14168-14176.	1.2	22
100	Tandem Catalysis by Palladium Nanoclusters Encapsulated in Metalâ€“Organic Frameworks. ACS Catalysis, 2014, 4, 3490-3497.	5.5	187
101	Pt Nanoclusters Confined within Metalâ€“Organic Framework Cavities for Chemoselective Cinnamaldehyde Hydrogenation. ACS Catalysis, 2014, 4, 1340-1348.	5.5	367
102	Geometryâ€Assisted Threeâ€Dimensional Superlocalization Imaging of Singleâ€Molecule Catalysis on Modular Multilayer Nanocatalysts. Angewandte Chemie - International Edition, 2014, 53, 12865-12869.	7.2	24
103	Geometryâ€Assisted Threeâ€Dimensional Superlocalization Imaging of Singleâ€Molecule Catalysis on Modular Multilayer Nanocatalysts. Angewandte Chemie, 2014, 126, 13079-13083.	1.6	6
104	Intermetallic NaAu₂ as a Heterogeneous Catalyst for Low-Temperature CO Oxidation. Journal of the American Chemical Society, 2013, 135, 9592-9595.	6.6	46
105	Highâ€Temperatureâ€Stable and Regenerable Catalysts: Platinum Nanoparticles in Aligned Mesoporous Silica Wells. ChemSusChem, 2013, 6, 1915-1922.	3.6	34
106	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
107	Spectroscopic Study of Platinum and Rhodium Dendrimer (PAMAM G4OH) Compounds: Structure and Stability. Journal of Physical Chemistry C, 2011, 115, 4757-4767.	1.5	68
108	Rh_{1âˆ’x}Pd_xnanoparticle composition dependence in CO oxidation by oxygen: catalytic activity enhancement in bimetallic systems. Physical Chemistry Chemical Physics, 2011, 13, 2556-2562.	1.3	66

#	Article	IF	Citations
109	Nanocrystal bilayer for tandem catalysis. Nature Chemistry, 2011, 3, 372-376.	6.6	466
110	Rh1â^’x Pd x Nanoparticle Composition Dependence in CO Oxidation by NO. Catalysis Letters, 2011, 141, 235-241.	1.4	30
111	Catalytic properties of Pt cluster-decorated CeO2 nanostructures. Nano Research, 2011, 4, 61-71.	5.8	91
112	Roomâ€Temperature Formation of Hollow Cu₂O Nanoparticles. Advanced Materials, 2010, 22, 1910-1914.	11.1	308
113	Converting homogeneous to heterogeneous in electrophilic catalysis using monodisperse metal nanoparticles. Nature Chemistry, 2010, 2, 36-41.	6.6	277
114	Seedless Polyol Synthesis and CO Oxidation Activity of Monodisperse (111)- and (100)-Oriented Rhodium Nanocrystals in Sub-10 nm Sizes. Langmuir, 2010, 26, 16463-16468.	1.6	43
115	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
116	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
117	Size Effect of Ruthenium Nanoparticles in Catalytic Carbon Monoxide Oxidation. Nano Letters, 2010, 10, 2709-2713.	4.5	379
118	Effect of organic capping layers over monodisperse platinum nanoparticles upon activity for ethylene hydrogenation and carbon monoxide oxidation. Journal of Catalysis, 2009, 265, 209-215.	3.1	170
119	Rhodium Nanoparticle Shape Dependence in the Reduction of NO by CO. Catalysis Letters, 2009, 132, 317-322.	1.4	39
120	Sub-10 nm Platinum Nanocrystals with Size and Shape Control: Catalytic Study for Ethylene and Pyrrole Hydrogenation. Journal of the American Chemical Society, 2009, 131, 5816-5822.	6.6	480
121	Self-Organized Ultrathin Oxide Nanocrystals. Nano Letters, 2009, 9, 1260-1264.	4.5	121
122	Gigahertz Optical Modulation Resulting from Coherent Lattice Oscillations Induced by Femtosecond Laser Pumping of 2D Photonic Crystals of Goldâ€Capped Polystyrene Microspheres. Advanced Materials, 2008, 20, 733-737.	11.1	18
123	Pulsed laser photothermal annealing and ablation of plasmonic nanoparticles. European Physical Journal: Special Topics, 2008, 153, 223-230.	1.2	12
124	Photothermally excited coherent lattice phonon oscillations in plasmonic nanoparticles. European Physical Journal: Special Topics, 2008, 153, 325-333.	1.2	16
125	Dendrimer Templated Synthesis of One Nanometer Rh and Pt Particles Supported on Mesoporous Silica: Catalytic Activity for Ethylene and Pyrrole Hydrogenation. Nano Letters, 2008, 8, 2027-2034.	4.5	254
126	Highly Selective Synthesis of Catalytically Active Monodisperse Rhodium Nanocubes. Journal of the American Chemical Society, 2008, 130, 5868-5869.	6.6	226

#	Article	IF	Citations
127	Sub-Two Nanometer Single Crystal Au Nanowires. Nano Letters, 2008, 8, 2041-2044.	4.5	538
128	Near-Monodisperse Niâˆ’Cu Bimetallic Nanocrystals of Variable Composition: Controlled Synthesis and Catalytic Activity for H₂ Generation. Journal of Physical Chemistry C, 2008, 112, 12092-12095.	1.5	67
129	Structure Sensitivity of Carbonâˆ’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. Journal of the American Chemical Society, 2008, 130, 14026-14027.	6.6	226
130	Time-Resolved Investigation of the Acoustic Vibration of a Single Gold Nanoprism Pair. Journal of Physical Chemistry C, 2008, 112, 11231-11235.	1.5	68
131	Influence of reaction with XeF2 on surface adhesion of Al and Al2O3 surfaces. Applied Physics Letters, 2008, 93, 141905.	1.5	15
132	Effect of the Lattice Crystallinity on the Electronâˆ’Phonon Relaxation Rates in Gold Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 10751-10757.	1.5	94
133	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
134	On the Universal Scaling Behavior of the Distance Decay of Plasmon Coupling in Metal Nanoparticle Pairs: A Plasmon Ruler Equation. Nano Letters, 2007, 7, 2080-2088.	4.5	1,415
135	Gold Nanoparticles Propulsion from Surface Fueled by Absorption of Femtosecond Laser Pulse at Their Surface Plasmon Resonance. Journal of the American Chemical Society, 2006, 128, 13330-13331.	6.6	45
136	Ultrafast electronic and lattice processes of plasmonic nanoparticles of different shape. , 2006, , 260-273.		1
137	Using silica films and powders modified with benzophenone to photoreduce silver nanoparticles. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 181, 385-393.	2.0	20
138	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
139	Photothermal reshaping of prismatic Au nanoparticles in periodic monolayer arrays by femtosecond laser pulses. Journal of Applied Physics, 2005, 98, 114301.	1.1	50
140	The Optically Detected Coherent Lattice Oscillations in Silver and Gold Monolayer Periodic Nanoprism Arrays:â€‰ The Effect of Interparticle Coupling. Journal of Physical Chemistry B, 2005, 109, 18881-18888.	1.2	92
141	Coherent Vibrational Oscillation in Gold Prismatic Monolayer Periodic Nanoparticle Arrays. Nano Letters, 2004, 4, 1741-1747.	4.5	86
142	Synthesis and characterization of potassium-modified alumina superbases. Physical Chemistry Chemical Physics, 2001, 3, 2537-2543.	1.3	46
143	Dispersion of Potassium Nitrate and the Resulting Strong Basicity on Zirconia. Chemistry of Materials, 2001, 13, 670-677.	3.2	64
144	Superbase derived from zirconia-supported potassium nitrate. Materials Letters, 2000, 46, 198-204.	1.3	35

#	ARTICLE	IF	CITATIONS
145	Precisely Controlled Synthesis of Hybrid Intermetallicâ€“Metal Nanoparticles for Nitrate Electroreduction. ACS Applied Materials & Interfaces, 0, , .	4.0	13
146	Atomic-Level Structure of Mesoporous Hexagonal Boron Nitride Determined by High-Resolution Solid-State Multinuclear Magnetic Resonance Spectroscopy and Density Functional Theory Calculations. Chemistry of Materials, 0, , .	3.2	5
147	Path Less Traveled: A Contemporary Twist on Synthesis and Traditional Structure Solution of Metastable LiNi₁₂B₈. ACS Materials Au, 0, , .	2.6	3