Qian He

List of Publications by Year
in descending order

163 papers	9,870 citations	31976 53 h-index	40979 93 g-index
166 all docs	166 docs citations	166 times ranked	11486 citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Catalytic Conversion of Methane to Methanol in an Aqueous Medium by using Copperâ€Promoted Feâ€ZSMâ€5. Angewandte Chemie - International Edition, 2012, 51, 5129-5133.	13.8	492
2	Aqueous Au-Pd colloids catalyze selective CH ₄ oxidation to CH ₃ OH with O ₂ under mild conditions. Science, 2017, 358, 223-227.	12.6	478
3	Palladium-tin catalysts for the direct synthesis of H ₂ O ₂ with high selectivity. Science, 2016, 351, 965-968.	12.6	465
4	Designer Titania-Supported Auâ€“Pd Nanoparticles for Efficient Photocatalytic Hydrogen Production. ACS Nano, 2014, 8, 3490-3497.	14.6	279
5	High performing and stable supported nano-alloys for the catalytic hydrogenation of levulinic acid to Î^{3}-valerolactone. Nature Communications, 2015, 6, 6540.	12.8	275
6	Role of the Support in Gold-Containing Nanoparticles as Heterogeneous Catalysts. Chemical Reviews, 2020, 120, 3890-3938.	47.7	275
7	A versatile route to fabricate single atom catalysts with high chemoselectivity and regioselectivity in hydrogenation. Nature Communications, 2019, 10, 3663.	12.8	270
8	Promotion of Phenol Photodecomposition over TiO₂ Using Au, Pd, and Auâ€“Pd Nanoparticles. ACS Nano, 2012, 6, 6284-6292.	14.6	252
9	Selective oxidation of 5-hydroxymethyl-2-furfural using supported goldâ€“copper nanoparticles. Green Chemistry, 2011, 13, 2091.	9.0	242
10	Oxidation of Methane to Methanol with Hydrogen Peroxide Using Supported Goldâ€“Palladium Alloy Nanoparticles. Angewandte Chemie - International Edition, 2013, 52, 1280-1284.	13.8	239
11	A Sacrificial Coating Strategy Toward Enhancement of Metalâ€“Support Interaction for Ultrastable Au Nanocatalysts. Journal of the American Chemical Society, 2016, 138, 16130-16139.	13.7	217
12	Selective Oxidation of Glycerol by Highly Active Bimetallic Catalysts at Ambient Temperature under Baseâ€Free Conditions. Angewandte Chemie - International Edition, 2011, 50, 10136-10139.	13.8	212
13	Direct Synthesis of Hydrogen Peroxide and Benzyl Alcohol Oxidation Using Auâˆ'Pd Catalysts Prepared by Sol Immobilization. Langmuir, 2010, 26, 16568-16577.	3.5	201
14	Tuning of catalytic sites in Pt/TiO2 catalysts for the chemoselective hydrogenation of 3-nitrostyrene. Nature Catalysis, 2019, 2, 873-881.	34.4	183
15	Zeoliteâ€Encaged Pdâ€“Mn Nanocatalysts for CO₂ Hydrogenation and Formic Acid Dehydrogenation. Angewandte Chemie - International Edition, 2020, 59, 20183-20191.	13.8	175
16	Modified zeolite ZSM-5 for the methanol to aromatics reaction. Catalysis Science and Technology, 2012, 2, 105-112.	4.1	174
17	Mechanochemical Kilogram-Scale Synthesis of Noble Metal Single-Atom Catalysts. Cell Reports Physical Science, 2020, 1, 100004.	5.6	139
18	Mercaptocarborane-Capped Gold Nanoparticles: Electron Pools and Ion Traps with Switchable Hydrophilicity. Journal of the American Chemical Society, 2012, 134, 212-221.	13.7	135

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19	Synthesis of Stable Ligand-free Goldâ€“Palladium Nanoparticles Using a Simple Excess Anion Method. ACS Nano, 2012, 6, 6600-6613.	14.6	128
20	Synthesis of glycerol carbonate from glycerol and urea with gold-based catalysts. Dalton Transactions, 2011, 40, 3927.	3.3	125
21	Breaking adsorption-energy scaling limitations of electrocatalytic nitrate reduction on intermetallic CuPd nanocubes by machine-learned insights. Nature Communications, 2022, 13, 2338.	12.8	119
22	In-situ synthesis of single-atom Ir by utilizing metal-organic frameworks: An acid-resistant catalyst for hydrogenation of levulinic acid to Î³-valerolactone. Journal of Catalysis, 2019, 373, 161-172.	6.2	109
23	Controlling the Duality of the Mechanism in Liquidâ€Phase Oxidation of Benzyl Alcohol Catalysed by Supported Auâ€“Pd Nanoparticles. Chemistry - A European Journal, 2011, 17, 6524-6532.	3.3	100
24	Facile synthesis of precious-metal single-site catalysts using organic solvents. Nature Chemistry, 2020, 12, 560-567.	13.6	96
25	Adsorption and activation of molecular oxygen over atomic copper(I/II) site on ceria. Nature Communications, 2020, 11, 4008.	12.8	95
26	Au-ZSM-5 catalyses the selective oxidation of CH4 to CH3OH and CH3COOH using O2. Nature Catalysis, 2022, 5, 45-54.	34.4	95
27	The effect of heat treatment on the performance and structure of carbon-supported Auâ€“Pd catalysts for the direct synthesis of hydrogen peroxide. Journal of Catalysis, 2012, 292, 227-238.	6.2	94
28	<i>In Situ</i> Observation of Oxygen Vacancy Dynamics and Ordering in the Epitaxial LaCoO₃ System. ACS Nano, 2017, 11, 6942-6949.	14.6	89
29	Facile Synthesis of Kilogram-Scale Co-Alloyed Pt Single-Atom Catalysts via Ball Milling for Hydrodeoxygenation of 5-Hydroxymethylfurfural. ACS Sustainable Chemistry and Engineering, 2020, 8, 8692-8699.	6.7	89
30	Catalytic Production of Alanine from Waste Glycerol. Angewandte Chemie - International Edition, 2020, 59, 2289-2293.	13.8	84
31	Partial Oxidation of Ethane to Oxygenates Using Fe- and Cu-Containing ZSM-5. Journal of the American Chemical Society, 2013, 135, 11087-11099.	13.7	83
32	Elucidating the Role of CO₂ in the Soft Oxidative Dehydrogenation of Propane over Ceria-Based Catalysts. ACS Catalysis, 2018, 8, 3454-3468.	11.2	80
33	Methyl Formate Formation from Methanol Oxidation Using Supported Goldâ€“Palladium Nanoparticles. ACS Catalysis, 2015, 5, 637-644.	11.2	78
34	Towards 3D Mapping of BO₆ Octahedron Rotations at Perovskite Heterointerfaces, Unit Cell by Unit Cell. ACS Nano, 2015, 9, 8412-8419.	14.6	78
35	Unveiling the kilogram-scale gold single-atom catalysts via ball milling for preferential oxidation of CO in excess hydrogen. Chemical Engineering Journal, 2020, 389, 124490.	12.7	78
36	Metallosalenâ€Based Ionic Porous Polymers as Bifunctional Catalysts for the Conversion of CO₂ into Valuable Chemicals. ChemSusChem, 2017, 10, 1526-1533.	6.8	77

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37	Biomanufacturing of CdS quantum dots. Green Chemistry, 2015, 17, 3775-3782.	9.0	74
38	Oxidation of benzyl alcohol using supported goldâ€“palladium nanoparticles. Catalysis Today, 2011, 163, 47-54.	4.4	73
39	Redispersion of Gold Supported on Oxides. ACS Catalysis, 2012, 2, 552-560.	11.2	73
40	Atomicâ€Level Sculpting of Crystalline Oxides: Toward Bulk Nanofabrication with Single Atomic Plane Precision. Small, 2015, 11, 5895-5900.	10.0	73
41	Cage-confinement of gas-phase ferrocene in zeolitic imidazolate frameworks to synthesize high-loading and atomically dispersed Feâ€“N codoped carbon for efficient oxygen reduction reaction. Journal of Materials Chemistry A, 2019, 7, 16508-16515.	10.3	73
42	A residue-free approach to water disinfection using catalytic in situ generation of reactive oxygen species. Nature Catalysis, 2021, 4, 575-585.	34.4	73
43	Interface Engineering of Domain Structures in BiFeO₃ Thin Films. Nano Letters, 2017, 17, 486-493.	9.1	69
44	High-<i>T</i>_c Layered Ferrielectric Crystals by Coherent Spinodal Decomposition. ACS Nano, 2015, 9, 12365-12373.	14.6	67
45	Switching-off toluene formation in the solvent-free oxidation of benzyl alcohol using supported trimetallic Auâ€“Pdâ€“Pt nanoparticles. Faraday Discussions, 2013, 162, 365.	3.2	65
46	The effect of catalyst preparation method on the performance of supported Auâ€“Pd catalysts for the direct synthesis of hydrogen peroxide. Green Chemistry, 2010, 12, 915.	9.0	63
47	Identification of phases, symmetries and defects through local crystallography. Nature Communications, 2015, 6, 7801.	12.8	63
48	Population and hierarchy of active species in gold iron oxide catalysts for carbon monoxide oxidation. Nature Communications, 2016, 7, 12905.	12.8	62
49	Graphene-Analogues Boron Nitride Nanosheets Confining Ionic Liquids: A High-Performance Quasi-Liquid Solid Electrolyte. Small, 2016, 12, 3535-3542.	10.0	62
50	Solvent-free selective epoxidation of cyclooctene using supported gold catalysts. Green Chemistry, 2009, 11, 1037.	9.0	61
51	The selective oxidation of 1,2-propanediol to lactic acid using mild conditions and gold-based nanoparticulate catalysts. Catalysis Today, 2013, 203, 139-145.	4.4	58
52	Selective suppression of disproportionation reaction in solvent-less benzyl alcohol oxidation catalysed by supported Auâ€“Pd nanoparticles. Catalysis Today, 2013, 203, 146-152.	4.4	57
53	Gold Catalysis: A Reflection on Where We are Now. Catalysis Letters, 2015, 145, 71-79.	2.6	56
54	Cationâ€“Eutectic Transition <i>via</i> Sublattice Melting in CuInP₂S₆/In_{4/3}P₂S₆ van der Waals Layered Crystals. ACS Nano, 2017, 11, 7060-7073.	14.6	54

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55	Gold, palladium and goldâ€“palladium supported nanoparticles for the synthesis of glycerol carbonate from glycerol and urea. Catalysis Science and Technology, 2012, 2, 1914.	4.1	52
56	Activation and Deactivation of Gold/Ceriaâ€“Zirconia in the Lowâ€Temperature Waterâ€“Gas Shift Reaction. Angewandte Chemie - International Edition, 2017, 56, 16037-16041.	13.8	49
57	Identifying key mononuclear Fe species for low-temperature methane oxidation. Chemical Science, 2021, 12, 3152-3160.	7.4	49
58	Better Catalysts through Microscopy: Mesoscale M1/M2 Intergrowth in Molybdenumâ€“Vanadium Based Complex Oxide Catalysts for Propane Ammoxidation. ACS Nano, 2015, 9, 3470-3478.	14.6	47
59	Effect of acid pre-treatment on AuPd/SiO₂catalysts for the direct synthesis of hydrogen peroxide. Catalysis Science and Technology, 2013, 3, 812-818.	4.1	45
60	Light alkane oxidation using catalysts prepared by chemical vapour impregnation: tuning alcohol selectivity through catalyst pre-treatment. Chemical Science, 2014, 5, 3603-3616.	7.4	45
61	Liquid phase oxidation of cyclohexane using bimetallic Auâ€“Pd/MgO catalysts. Applied Catalysis A: General, 2015, 504, 373-380.	4.3	45
62	One-pot synthesis of self-supported hierarchical urchin-like Ni₃S₂with ultrahigh areal pseudocapacitance. Journal of Materials Chemistry A, 2018, 6, 22115-22122.	10.3	44
63	Selective photocatalytic oxidation of benzene for the synthesis of phenol using engineered Auâ€“Pd alloy nanoparticles supported on titanium dioxide. Chemical Communications, 2014, 50, 12612-12614.	4.1	42
64	Impact of symmetry on the ferroelectric properties of CaTiO3 thin films. Applied Physics Letters, 2015, 106, .	3.3	42
65	Inter-connected and open pore hierarchical TS-1 with controlled framework titanium for catalytic cyclohexene epoxidation. Catalysis Science and Technology, 2018, 8, 2211-2217.	4.1	42
66	The Direct Synthesis of H₂O₂ Using TSâ€1 Supported Catalysts. ChemCatChem, 2019, 11, 1673-1680.	3.7	42
67	Oxidation of Benzyl Alcohol and Carbon Monoxide Using Gold Nanoparticles Supported on MnO₂ Nanowire Microspheres. Chemistry - A European Journal, 2014, 20, 1701-1710.	3.3	40
68	Catalytic Oxidation of 5-Hydroxymethylfurfural to 2,5-Diformylfuran over Atomically Dispersed Ruthenium Catalysts. Industrial & Engineering Chemistry Research, 2020, 59, 4333-4337.	3.7	40
69	Facilitating the Deprotonation of OH to O through Fe⁴⁺â€Induced States in Perovskite LaNiO₃ Enables a Fast Oxygen Evolution Reaction. Small, 2021, 17, e2006930.	10.0	40
70	Supported bimetallic nano-alloys as highly active catalysts for the one-pot tandem synthesis of imines and secondary amines from nitrobenzene and alcohols. Catalysis Science and Technology, 2016, 6, 5473-5482.	4.1	39
71	The selective hydrogenation of furfural over supported palladium nanoparticle catalysts prepared by sol-immobilisation: effect of catalyst support and reaction conditions. Catalysis Science and Technology, 2018, 8, 252-267.	4.1	39
72	Physical mixing of metal acetates: a simple, scalable method to produce active chloride free bimetallic catalysts. Chemical Science, 2012, 3, 2965.	7.4	38

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73	Low temperature selective oxidation of methane using gold-palladium colloids. Catalysis Today, 2020, 342, 32-38.	4.4	38
74	Selective catalytic oxidation using supported goldâ€“platinum and palladiumâ€“platinum nanoalloys prepared by sol-immobilisation. Physical Chemistry Chemical Physics, 2013, 15, 10636.	2.8	37
75	Hydrogen production from formic acid decomposition in the liquid phase using Pd nanoparticles supported on CNFs with different surface properties. Sustainable Energy and Fuels, 2018, 2, 2705-2716.	4.9	37
76	A facile route to fabricate double atom catalysts with controllable atomic spacing for the r-WGS reaction. Journal of Materials Chemistry A, 2020, 8, 2364-2368.	10.3	37
77	Catalytic Partial Oxidation of Cyclohexane by Bimetallic Ag/Pd Nanoparticles on Magnesium Oxide. Chemistry - A European Journal, 2017, 23, 11834-11842.	3.3	36
78	Synthesis of highly uniform and composition-controlled goldâ€“palladium supported nanoparticles in continuous flow. Nanoscale, 2019, 11, 8247-8259.	5.6	35
79	The Effect of Bromide Pretreatment on the Performance of Supported Auâ€“Pd Catalysts for the Direct Synthesis of Hydrogen Peroxide. ChemCatChem, 2009, 1, 479-484.	3.7	34
80	Enhanced Auï£¿Pd Activity in the Direct Synthesis of Hydrogen Peroxide using Nanostructured Titanate Nanotube Supports. ChemCatChem, 2014, 6, 2531-2534.	3.7	33
81	Monodisperse PdSn/SnO_xcore/shell nanoparticles with superior electrocatalytic ethanol oxidation performance. Journal of Materials Chemistry A, 2020, 8, 20931-20938.	10.3	33
82	Highly selective PdZn/ZnO catalysts for the methanol steam reforming reaction. Catalysis Science and Technology, 2018, 8, 5848-5857.	4.1	31
83	Discovering positively charged Pt for enhanced hydrogenolysis of glycerol to 1,3-propanediol. Green Chemistry, 2020, 22, 8254-8259.	9.0	30
84	Ionic Liquid-Stabilized Single-Atom Rh Catalyst Against Leaching. CCS Chemistry, 2021, 3, 1814-1822.	7.8	30
85	Selective oxidation of alkenes using graphite-supported gold-palladium catalysts. Catalysis Science and Technology, 2011, 1, 747.	4.1	28
86	Single Cu atom dispersed on S,N-codoped nanocarbon derived from shrimp shells for highly-efficient oxygen reduction reaction. Nano Research, 2022, 15, 5995-6000.	10.4	27
87	High Activity Redox Catalysts Synthesized by Chemical Vapor Impregnation. ACS Nano, 2014, 8, 957-969.	14.6	25
88	Deactivation studies of bimetallic AuPd nanoparticles supported on MgO during selective aerobic oxidation of alcohols. Applied Catalysis A: General, 2017, 546, 58-66.	4.3	25
89	Amino-metalloporphyrin polymers derived Fe single atom catalysts for highly efficient oxygen reduction reaction. Science China Chemistry, 2020, 63, 810-817.	8.2	25
90	Interface Engineered Roomâ€Temperature Ferromagnetic Insulating State in Ultrathin Manganite Films. Advanced Science, 2020, 7, 1901606.	11.2	24

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91	The Electrophilicity of Surface Carbon Species in the Redox Reactions of CuOâ€CeO₂ Catalysts. Angewandte Chemie - International Edition, 2021, 60, 14420-14428.	13.8	24
92	The direct synthesis of hydrogen peroxide using platinum promoted goldâ€“palladium catalysts. Catalysis Science and Technology, 2014, 4, 3244-3250.	4.1	23
93	The Role of Mg(OH)₂ in the Soâ€Called â€œBaseâ€Freeâ€• Oxidation of Glycerol with AuPd Catalysts. Chemistry - A European Journal, 2018, 24, 2396-2402.	3.3	23
94	Glycerol Selective Oxidation to Lactic Acid over AuPt Nanoparticles; Enhancing Reaction Selectivity and Understanding by Support Modification. ChemCatChem, 2020, 12, 3097-3107.	3.7	23
95	Inhibiting the Dealkylation of Basic Arenes during <i>n</i>-Alkane Direct Aromatization Reactions and Understanding the C₆ Ring Closure Mechanism. ACS Catalysis, 2020, 10, 8428-8443.	11.2	23
96	Zeoliteâ€Encaged Pdâ€“Mn Nanocatalysts for CO₂ Hydrogenation and Formic Acid Dehydrogenation. Angewandte Chemie, 2020, 132, 20358-20366.	2.0	22
97	Low-temperature aerobic oxidation of decane using an oxygen-free radical initiator. Journal of Catalysis, 2011, 283, 161-167.	6.2	21
98	Cytochrome <scp>P450</scp> Enzymeâ€Copper Phosphate Hybrid Nanoâ€Flowers with Superior Catalytic Performances for Selective Oxidation of Sulfides. Chinese Journal of Chemistry, 2017, 35, 693-698.	4.9	21
99	Selective Hydrogenation of Levulinic Acid Using Ru/C Catalysts Prepared by Sol-Immobilisation. Topics in Catalysis, 2018, 61, 833-843.	2.8	21
100	Correlation between Geometrically Induced Oxygen Octahedral Tilts and Multiferroic Behaviors in BiFeO₃ Films. Advanced Functional Materials, 2018, 28, 1800839.	14.9	21
101	The Effects of Dopants on the Cuâ€“ZrO₂ Catalyzed Hydrogenation of Levulinic Acid. Journal of Physical Chemistry C, 2019, 123, 7879-7888.	3.1	21
102	Facilitating Ptâˆ’WO_{<i>x</i>} Species Interaction for Efficient Glycerol Hydrogenolysis to 1,3â€Propanediol. ChemCatChem, 2021, 13, 3695-3705.	3.7	21
103	Enhanced performance of the catalytic conversion of allyl alcohol to 3-hydroxypropionic acid using bimetallic gold catalysts. Faraday Discussions, 2011, 152, 367.	3.2	20
104	Nitrogen and atomic Ni co-doped carbon material for sodium ion storage. Chemical Communications, 2020, 56, 5182-5185.	4.1	20
105	Iron single atoms and clusters anchored on natural N-doped nanocarbon with dual reaction sites as superior Fenton-like catalysts. Applied Surface Science, 2022, 597, 153625.	6.1	20
106	Chemical design and synthesis of superior single-atom electrocatalysts <i>via in situ</i> polymerization. Journal of Materials Chemistry A, 2020, 8, 17683-17690.	10.3	19
107	Molybdenum blue nano-rings: an effective catalyst for the partial oxidation of cyclohexane. Catalysis Science and Technology, 2015, 5, 217-227.	4.1	18
108	Sedimentary mechanisms of a modern banded iron formation on Milos Island, Greece. Solid Earth, 2018, 9, 573-598.	2.8	18

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109	Liquid phase hydrogenation of CO₂ to formate using palladium and ruthenium nanoparticles supported on molybdenum carbide. New Journal of Chemistry, 2019, 43, 13985-13997.	2.8	18
110	Catalytic Production of Alanine from Waste Glycerol. Angewandte Chemie, 2020, 132, 2309-2313.	2.0	18
111	Crystal facet effects of platinum single-atom catalysts in hydrolytic dehydrogenation of ammonia borane. Journal of Materials Chemistry A, 2022, 10, 10837-10843.	10.3	18
112	Quantum confinement in transition metal oxide quantum wells. Applied Physics Letters, 2015, 106, .	3.3	17
113	Highly Active Gold and Goldâ€“Palladium Catalysts Prepared by Colloidal Methods in the Absence of Polymer Stabilizers. ChemCatChem, 2017, 9, 2914-2918.	3.7	17
114	Structure-sensitivity of alumina supported palladium catalysts for N2O decomposition. Applied Catalysis B: Environmental, 2020, 264, 118501.	20.2	17
115	The Lowâ€Temperature Oxidation of Propane by using H₂O₂ and Fe/ZSMâ€5 Catalysts: Insights into the Active Site and Enhancement of Catalytic Turnover Frequencies. ChemCatChem, 2017, 9, 642-650.	3.7	16
116	Oxygen-vacancy-mediated dielectric property in perovskite Eu0.5Ba0.5TiO3-Î´ epitaxial thin films. Applied Physics Letters, 2018, 112, .	3.3	16
117	Heterostructured Biâ€“Cu₂S nanocrystals for efficient CO₂ electroreduction to formate. Nanoscale Horizons, 2022, 7, 508-514.	8.0	16
118	Manipulating multiple order parameters via oxygen vacancies: The case of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">E</mml:mi><mml:msub><mml:mi mathvariant="normal">u</mml:mi><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub><mml:mi mathvariant="normal">B</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub><mml:mi>Ti</mml:mi><mml:msub	3.2	15
119	Quantum Confinement in Oxide Heterostructures: Room-Temperature Intersubband Absorption in SrTiO₃/LaAlO₃ Multiple Quantum Wells. ACS Nano, 2018, 12, 7682-7689.	14.6	15
120	Preparation of cytochrome P450 enzyme-cobalt phosphate hybrid nano-flowers for oxidative coupling of benzylamine. Enzyme and Microbial Technology, 2019, 131, 109386.	3.2	15
121	Nanoporous Carbon: Liquid-Free Synthesis and Geometry-Dependent Catalytic Performance. ACS Nano, 2019, 13, 2463-2472.	14.6	15
122	Identifying local structural states in atomic imaging by computer vision. Advanced Structural and Chemical Imaging, 2016, 2, 14.	4.0	14
123	Supported Bimetallic AuPd Nanoparticles as a Catalyst for the Selective Hydrogenation of Nitroarenes. Nanomaterials, 2018, 8, 690.	4.1	14
124	Selective Functionalization of Hydrocarbons Using a ppm Bioinspired Molecular Tweezer via Proton-Coupled Electron Transfer. ACS Catalysis, 2021, 11, 6810-6815.	11.2	14
125	Uncovering Structure-Properties Relations in Fuel Cells and Catalysts with Quantitative Aberration-Corrected STEM and EELS. Microscopy and Microanalysis, 2014, 20, 484-485.	0.4	13
126	One pot microwave synthesis of highly stable AuPd@Pd supported coreâ€“shell nanoparticles. Faraday Discussions, 2018, 208, 409-425.	3.2	13

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127	Piezoelectric modulation of nonlinear optical response in BaTiO3 thin film. Applied Physics Letters, 2018, 113, 132902.	3.3	13
128	The Key Role of Nanocasting in Goldâ€based Fe₂O₃ Nanocasted Catalysts for Oxygen Activation at the Metalâ€support Interface. ChemCatChem, 2019, 11, 1915-1927.	3.7	13
129	Atomically Precise Single Metal Oxide Cluster Catalyst with Oxygenâ€Controlled Activity. Advanced Functional Materials, 2022, 32, .	14.9	13
130	Selfâ€assembled metalloporphyrinsâ€“inorganic hybrid flowers and their application to efficient epoxidation of olefins. Journal of Chemical Technology and Biotechnology, 2017, 92, 2594-2605.	3.2	12
131	Effect of Elemental Combination on Microstructure and Mechanical Properties of Quaternary Refractory Medium Entropy Alloys. Materials Transactions, 2020, 61, 577-586.	1.2	12
132	N-formylation of amines using phenylsilane and CO2 over ZnO catalyst under mild condition. Catalysis Communications, 2021, 149, 106195.	3.3	12
133	Quasiâ€continuous synthesis of iron single atom catalysts via a microcapsule pyrolysis strategy. AIChE Journal, 2021, 67, e17197.	3.6	11
134	Facile synthesis of impurity-free iron single atom catalysts for highly efficient oxygen reduction reaction and active-site identification. Catalysis Science and Technology, 2019, 9, 6556-6560.	4.1	10
135	Ferroelastic Nanodomain-mediated Mechanical Switching of Ferroelectricity in Thick Epitaxial Films. Nano Letters, 2021, 21, 445-452.	9.1	10
136	Quasi-continuous synthesis of cobalt single atom catalysts for transfer hydrogenation of quinoline. Chinese Chemical Letters, 2022, 33, 2569-2572.	9.0	10
137	A metal-free hydroxyl functionalized quaternary phosphine type ionic liquid polymer for cycloaddition of CO₂ and epoxides. Dalton Transactions, 2022, 51, 1303-1307.	3.3	10
138	Learning motifs and their hierarchies in atomic resolution microscopy. Science Advances, 2022, 8, eabk1005.	10.3	10
139	Preparation of ultra low loaded Au catalysts for oxidation reactions. Faraday Discussions, 2011, 152, 381.	3.2	9
140	Well-controlled metal co-catalysts synthesised by chemical vapour impregnation for photocatalytic hydrogen production and water purification. Dalton Transactions, 2014, 43, 14976-14982.	3.3	9
141	Multifunctional supported bimetallic catalysts for a cascade reaction with hydrogen auto transfer: synthesis of 4-phenylbutan-2-ones from 4-methoxybenzyl alcohols. Catalysis Science and Technology, 2017, 7, 1928-1936.	4.1	9
142	Antisite defects in layered multiferroic CuCr_{0.9}In_{0.1}P₂S₆. Nanoscale, 2015, 7, 18579-18583.	5.6	8
143	Design, Identification, and Evolution of a Surface Ruthenium(II/III) Single Site for CO Activation. Angewandte Chemie - International Edition, 2021, 60, 1212-1219.	13.8	8
144	Protein powder derived nitrogen-doped carbon supported atomically dispersed iron sites for selective oxidation of ethylbenzene. Dalton Transactions, 2021, 50, 11711-11715.	3.3	8

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145	Towards spin-polarized two-dimensional electron gas at a surface of an antiferromagnetic insulating oxide. Physical Review B, 2016, 94, .	3.2	6
146	Impact of the Experimental Parameters on Catalytic Activity When Preparing Polymer Protected Bimetallic Nanoparticle Catalysts on Activated Carbon. ACS Catalysis, 2022, 12, 4440-4454.	11.2	6
147	Goldâ€Nanoparticleâ€Based Catalysts for the Oxidative Esterification of 1,4â€Butanediol into Dimethyl Succinate. ChemSusChem, 2013, 6, 1952-1958.	6.8	5
148	Probing composition distributions in nanoalloy catalysts with correlative electron microscopy. Journal of Materials Chemistry A, 2020, 8, 15725-15733.	10.3	4
149	Accurate and Robust Calibration of the Uniform Affine Transformation Between Scan-Camera Coordinates for Atom-Resolved In-Focus 4D-STEM Datasets. Microscopy and Microanalysis, 2022, 28, 622-632.	0.4	4
150	New hypothesis testing-based rapid change detection for power grid system monitoring. International Journal of Parallel, Emergent and Distributed Systems, 2014, 29, 239-263.	1.0	3
151	A facile route to encapsulate ultrasmall Ni clusters within the pore channels of AlPO-5. Materials Letters, 2018, 210, 211-213.	2.6	3
152	Selfâ€Assembled Metalloporphyrinsâ€“Magnesium Phosphate Hybrid Spheres as Efficient Catalysts for Cycloaddition of Carbon Dioxide. ChemistrySelect, 2019, 4, 8233-8236.	1.5	3
153	Facile Synthesis of Metalloporphyrins-Ba2+ Composites as Recyclable and Efficient Catalysts for Olefins Epoxidation Reactions. Chemical Research in Chinese Universities, 2019, 35, 251-255.	2.6	2
154	The Electrophilicity of Surface Carbon Species in the Redox Reactions of CuOâ€CeO 2 Catalysts. Angewandte Chemie, 2021, 133, 14541-14549.	2.0	2
155	Manipulating the metal-to-insulator transition and magnetic properties in manganite thin films via epitaxial strain. Physical Review B, 2022, 105, .	3.2	2
156	Assessing and Controlling the Size, Morphology and Composition of Supported Bimetallic Catalyst Nanoparticles. Microscopy and Microanalysis, 2014, 20, 74-75.	0.4	1
157	Controlling the Selectivity of Supported Ru Nanoparticles During Glycerol Hydrogenolysis: Câ˘’O <i>vs</i> Câ˘’C Cleavage. ChemCatChem, 2021, 13, 1595-1606.	3.7	1
158	Frontispiece: The Electrophilicity of Surface Carbon Species in the Redox Reactions of CuOâ€CeO₂ Catalysts. Angewandte Chemie - International Edition, 2021, 60, .	13.8	1
159	Ultrahigh-loading single-site Zn catalyst for efficient and ambient hydrogen generation from silanes. Dalton Transactions, 2022, , .	3.3	1
160	Toward 3D Mapping of Octahedral Rotations at Perovskite Thin Film Heterointerfaces Unit Cell by Unit Cell. Microscopy and Microanalysis, 2014, 20, 1038-1039.	0.4	0
161	Polar phase transitions in heteroepitaxial stabilized La_{0.5}Y_{0.5}AlO₃thin films. Journal of Physics Condensed Matter, 2017, 29, 405401.	1.8	0
162	Design, Identification, and Evolution of a Surface Ruthenium(II/III) Single Site for CO Activation. Angewandte Chemie, 2021, 133, 1232-1239.	2.0	0

#	Article	IF	Citations
163	Frontispiz: The Electrophilicity of Surface Carbon Species in the Redox Reactions of CuOâ€CeO₂ Catalysts. Angewandte Chemie, 2021, 133, .	2.0	0