Xinhe Bao

List of Publications by Year
in descending order

723 papers	63,765 citations	643 123 h-index	1347 223 g-index
755 all docs	755 docs citations	755 times ranked	43538 citing authors

#	Article	IF	Citations
1	Catalysis with two-dimensional materials and their heterostructures. Nature Nanotechnology, 2016, 11, 218-230.	31.5	1,833
2	Iron Encapsulated within Podâ€like Carbon Nanotubes for Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2013, 52, 371-375.	13.8	1,152
3	Direct, Nonoxidative Conversion of Methane to Ethylene, Aromatics, and Hydrogen. Science, 2014, 344, 616-619.	12.6	1,113
4	Triggering the electrocatalytic hydrogen evolution activity of the inert two-dimensional MoS₂ surface via single-atom metal doping. Energy and Environmental Science, 2015, 8, 1594-1601.	30.8	1,109
5	Enhanced Electron Penetration through an Ultrathin Graphene Layer for Highly Efficient Catalysis of the Hydrogen Evolution Reaction. Angewandte Chemie - International Edition, 2015, 54, 2100-2104.	13.8	1,092
6	Selective conversion of syngas to light olefins. Science, 2016, 351, 1065-1068.	12.6	1,063
7	Repeated growth and bubbling transfer of graphene with millimetre-size single-crystal grains using platinum. Nature Communications, 2012, 3, 699.	12.8	985
8	Toward N-Doped Graphene via Solvothermal Synthesis. Chemistry of Materials, 2011, 23, 1188-1193.	6.7	984
9	Direct Conversion of Methane to Value-Added Chemicals over Heterogeneous Catalysts: Challenges and Prospects. Chemical Reviews, 2017, 117, 8497-8520.	47.7	961
10	Size-Dependent Electrocatalytic Reduction of CO₂ over Pd Nanoparticles. Journal of the American Chemical Society, 2015, 137, 4288-4291.	13.7	929
11	Interface-Confined Ferrous Centers for Catalytic Oxidation. Science, 2010, 328, 1141-1144.	12.6	866
12	Enhanced ethanol production inside carbon-nanotube reactors containing catalytic particles. Nature Materials, 2007, 6, 507-511.	27.5	864
13	Highly active and durable non-precious-metal catalysts encapsulated in carbon nanotubes for hydrogen evolution reaction. Energy and Environmental Science, 2014, 7, 1919-1923.	30.8	845
14	Catalysis with Two-Dimensional Materials Confining Single Atoms: Concept, Design, and Applications. Chemical Reviews, 2019, 119, 1806-1854.	47.7	745
15	A single iron site confined in a graphene matrix for the catalytic oxidation of benzene at room temperature. Science Advances, 2015, 1, e1500462.	10.3	719
16	Effect of Confinement in Carbon Nanotubes on the Activity of Fischerâ^'Tropsch Iron Catalyst. Journal of the American Chemical Society, 2008, 130, 9414-9419.	13.7	709
17	Single layer graphene encapsulating non-precious metals as high-performance electrocatalysts for water oxidation. Energy and Environmental Science, 2016, 9, 123-129.	30.8	683
18	Coordinatively unsaturated nickelâ€"nitrogen sites towards selective and high-rate CO₂electroreduction. Energy and Environmental Science, 2018, 11, 1204-1210.	30.8	622

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19	The Effects of Confinement inside Carbon Nanotubes on Catalysis. Accounts of Chemical Research, 2011, 44, 553-562.	15.6	597
20	Alkalized Ti3C2 MXene nanoribbons with expanded interlayer spacing for high-capacity sodium and potassium ion batteries. Nano Energy, 2017, 40, 1-8.	16.0	549
21	Oxygen reduction reaction mechanism on nitrogen-doped graphene: A density functional theory study. Journal of Catalysis, 2011, 282, 183-190.	6.2	545
22	Ti₃C₂ MXene-Derived Sodium/Potassium Titanate Nanoribbons for High-Performance Sodium/Potassium Ion Batteries with Enhanced Capacities. ACS Nano, 2017, 11, 4792-4800.	14.6	544
23	Multiscale structural and electronic control of molybdenum disulfide foam for highly efficient hydrogen production. Nature Communications, 2017, 8, 14430.	12.8	488
24	Enhancing CO₂ Electroreduction with the Metalâ€“Oxide Interface. Journal of the American Chemical Society, 2017, 139, 5652-5655.	13.7	468
25	Nitrogenâ€Doped sp²â€Hybridized Carbon as a Superior Catalyst for Selective Oxidation. Angewandte Chemie - International Edition, 2013, 52, 2109-2113.	13.8	463
26	Surface chemistry and catalysis confined under two-dimensional materials. Chemical Society Reviews, 2017, 46, 1842-1874.	38.1	412
27	Reduced graphene oxide as a catalyst for hydrogenation of nitrobenzene at room temperature. Chemical Communications, 2011, 47, 2432-2434.	4.1	394
28	Highly doped and exposed Cu(<scp>i</scp>)â€“N active sites within graphene towards efficient oxygen reduction for zincâ€“air batteries. Energy and Environmental Science, 2016, 9, 3736-3745.	30.8	374
29	Room-Temperature Methane Conversion by Graphene-Confined Single Iron Atoms. CheM, 2018, 4, 1902-1910.	11.7	350
30	The enhancement of TiO2 photocatalytic activity by hydrogen thermal treatment. Chemosphere, 2003, 50, 39-46.	8.2	338
31	Robust Catalysis on 2D Materials Encapsulating Metals: Concept, Application, and Perspective. Advanced Materials, 2017, 29, 1606967.	21.0	334
32	Direct Methane Conversion under Mild Condition by Thermo-, Electro-, or Photocatalysis. CheM, 2019, 5, 2296-2325.	11.7	331
33	Tuning of Redox Properties of Iron and Iron Oxides via Encapsulation within Carbon Nanotubes. Journal of the American Chemical Society, 2007, 129, 7421-7426.	13.7	316
34	Podlike Nâ€Doped Carbon Nanotubes Encapsulating FeNi Alloy Nanoparticles: Highâ€Performance Counter Electrode Materials for Dyeâ€Sensitized Solar Cells. Angewandte Chemie - International Edition, 2014, 53, 7023-7027.	13.8	315
35	One-Step Device Fabrication of Phosphorene and Graphene Interdigital Micro-Supercapacitors with High Energy Density. ACS Nano, 2017, 11, 7284-7292.	14.6	312
36	High-density iron nanoparticles encapsulated within nitrogen-doped carbon nanoshell as efficient oxygen electrocatalyst for zincâ€“air battery. Nano Energy, 2015, 13, 387-396.	16.0	311

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37	Sulfur vacancy-rich MoS2 as a catalyst for the hydrogenation of CO2 to methanol. Nature Catalysis, 2021, 4, 242-250.	34.4	308
38	Surface functionalization of ZIF-8 with ammonium ferric citrate toward high exposure of Fe-N active sites for efficient oxygen and carbon dioxide electroreduction. Nano Energy, 2017, 38, 281-289.	16.0	301
39	Bottom-Up Fabrication of Sulfur-Doped Graphene Films Derived from Sulfur-Annulated Nanographene for Ultrahigh Volumetric Capacitance Micro-Supercapacitors. Journal of the American Chemical Society, 2017, 139, 4506-4512.	13.7	294
40	Direct conversion of methane under nonoxidative conditions. Journal of Catalysis, 2003, 216, 386-395.	6.2	289
41	Crystallization and Si incorporation mechanisms of SAPO-34. Microporous and Mesoporous Materials, 2002, 53, 97-108.	4.4	274
42	Enhanced capacitance of manganese oxide via confinement inside carbon nanotubes. Chemical Communications, 2010, 46, 3905.	4.1	270
43	In Situ Reconstruction of a Hierarchical Snâ€Cu/SnO_{<i>x</i>}Core/Shell Catalyst for Highâ€Performance CO₂Electroreduction. Angewandte Chemie - International Edition, 2020, 59, 4814-4821.	13.8	270
44	Pd-Containing Nanostructures for Electrochemical CO₂ Reduction Reaction. ACS Catalysis, 2018, 8, 1510-1519.	11.2	261
45	Graphene-based materials for high-voltage and high-energy asymmetric supercapacitors. Energy Storage Materials, 2017, 6, 70-97.	18.0	260
46	Synergetic Effect of Surface and Subsurface Ni Species at Ptâˆ’Ni Bimetallic Catalysts for CO Oxidation. Journal of the American Chemical Society, 2011, 133, 1978-1986.	13.7	257
47	Confinement Catalysis with 2D Materials for Energy Conversion. Advanced Materials, 2019, 31, e1901996.	21.0	257
48	Synergistic Catalysis over Ironâ€Nitrogen Sites Anchored with Cobalt Phthalocyanine for Efficient CO₂ Electroreduction. Advanced Materials, 2019, 31, e1903470.	21.0	256
49	Interaction of oxygen with silver at high temperature and atmospheric pressure: A spectroscopic and structural analysis of a strongly bound surface species. Physical Review B, 1996, 54, 2249-2262.	3.2	248
50	Understanding nano effects in catalysis. National Science Review, 2015, 2, 183-201.	9.5	246
51	Toward Fundamentals of Confined Catalysis in Carbon Nanotubes. Journal of the American Chemical Society, 2015, 137, 477-482.	13.7	240
52	Electrochemically Scalable Production of Fluorine-Modified Graphene for Flexible and High-Energy Ionogel-Based Microsupercapacitors. Journal of the American Chemical Society, 2018, 140, 8198-8205.	13.7	240
53	Facile Autoreduction of Iron Oxide/Carbon Nanotube Encapsulates. Journal of the American Chemical Society, 2006, 128, 3136-3137.	13.7	239
54	Highâ€Temperature CO₂ Electrolysis in Solid Oxide Electrolysis Cells: Developments, Challenges, and Prospects. Advanced Materials, 2019, 31, e1902033.	21.0	237

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55	A Graphene Composite Material with Single Cobalt Active Sites: A Highly Efficient Counter Electrode for Dyeâ€Sensitized Solar Cells. Angewandte Chemie - International Edition, 2016, 55, 6708-6712.	13.8	236
56	Highly active and stable single iron site confined in graphene nanosheets for oxygen reduction reaction. Nano Energy, 2017, 32, 353-358.	16.0	234
57	Toward Monodispersed Silver Nanoparticles with Unusual Thermal Stability. Journal of the American Chemical Society, 2006, 128, 15756-15764.	13.7	233
58	Reactions over catalysts confined in carbon nanotubes. Chemical Communications, 2008, , 6271.	4.1	232
59	Cobalt nanoparticles encapsulated in nitrogen-doped carbon as a bifunctional catalyst for water electrolysis. Journal of Materials Chemistry A, 2014, 2, 20067-20074.	10.3	231
60	Interface-Confined Oxide Nanostructures for Catalytic Oxidation Reactions. Accounts of Chemical Research, 2013, 46, 1692-1701.	15.6	229
61	Confined catalysis under two-dimensional materials. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5930-5934.	7.1	213
62	Size effect of graphene on electrocatalytic activation of oxygen. Chemical Communications, 2011, 47, 10016.	4.1	212
63	Highly active reduction of oxygen on a FeCo alloy catalyst encapsulated in pod-like carbon nanotubes with fewer walls. Journal of Materials Chemistry A, 2013, 1, 14868.	10.3	211
64	Highly selective palladium-copper bimetallic electrocatalysts for the electrochemical reduction of CO2 to CO. Nano Energy, 2016, 27, 35-43.	16.0	211
65	Switchable CO2 electroreduction via engineering active phases of Pd nanoparticles. Nano Research, 2017, 10, 2181-2191.	10.4	208
66	Visualizing Chemical Reactions Confined under Graphene. Angewandte Chemie - International Edition, 2012, 51, 4856-4859.	13.8	207
67	Recent progress in methane dehydroaromatization: From laboratory curiosities to promising technology. Journal of Energy Chemistry, 2013, 22, 1-20.	12.9	206
68	Creating Mesopores in ZSM-5 Zeolite by Alkali Treatment: A New Way to Enhance the Catalytic Performance of Methane Dehydroaromatization on Mo/HZSM-5 Catalysts. Catalysis Letters, 2003, 91, 155-167.	2.6	204
69	Graphene: a promising 2D material for electrochemical energy storage. Science Bulletin, 2017, 62, 724-740.	9.0	198
70	Conductive Microporous Covalent Triazineâ€Based Framework for Highâ€Performance Electrochemical Capacitive Energy Storage. Angewandte Chemie - International Edition, 2018, 57, 7992-7996.	13.8	193
71	Ultrahigh-voltage integrated micro-supercapacitors with designable shapes and superior flexibility. Energy and Environmental Science, 2019, 12, 1534-1541.	30.8	192
72	On the Induction Period of Methane Aromatization over Mo-Based Catalysts. Journal of Catalysis, 2000, 194, 105-114.	6.2	189

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73	Role of Manganese Oxide in Syngas Conversion to Light Olefins. ACS Catalysis, 2017, 7, 2800-2804.	11.2	188
74	Carbide-Supported Au Catalysts for Waterâ€“Gas Shift Reactions: A New Territory for the Strong Metalâ€“Support Interaction Effect. Journal of the American Chemical Society, 2018, 140, 13808-13816.	13.7	188
75	Shapeâ€Selective Zeolites Promote Ethylene Formation from Syngas via a Ketene Intermediate. Angewandte Chemie - International Edition, 2018, 57, 4692-4696.	13.8	185
76	In Situ Investigation of Reversible Exsolution/Dissolution of CoFe Alloy Nanoparticles in a Coâ€Doped Sr₂Fe_{1.5}Mo_{0.5}O_{6âˆ’}<i>_{Î´}</i> Cathode for CO₂ Electrolysis. Advanced Materials, 2020, 32, e1906193.	21.0	185
77	Graphene cover-promoted metal-catalyzed reactions. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17023-17028.	7.1	183
78	Highâ€Valence Nickel Singleâ€Atom Catalysts Coordinated to Oxygen Sites for Extraordinarily Activating Oxygen Evolution Reaction. Advanced Science, 2020, 7, 1903089.	11.2	182
79	Silicon carbide-derived carbon nanocomposite as a substitute for mercury in the catalytic hydrochlorination of acetylene. Nature Communications, 2014, 5, 3688.	12.8	181
80	Oxideâ€“Zeolite-Based Composite Catalyst Concept That Enables Syngas Chemistry beyond Fischerâ€“Tropsch Synthesis. Chemical Reviews, 2021, 121, 6588-6609.	47.7	180
81	Highâ€Rate CO₂ Electroreduction to C₂₊ Products over a Copperâ€Copper Iodide Catalyst. Angewandte Chemie - International Edition, 2021, 60, 14329-14333.	13.8	177
82	Scalable Fabrication of Photochemically Reduced Graphene-Based Monolithic Micro-Supercapacitors with Superior Energy and Power Densities. ACS Nano, 2017, 11, 4283-4291.	14.6	176
83	Formation of subsurface oxygen species and its high activity toward CO oxidation over silver catalysts. Journal of Catalysis, 2005, 229, 446-458.	6.2	174
84	Ag/SiO2: a novel catalyst with high activity and selectivity for hydrogenation of chloronitrobenzenes. Chemical Communications, 2005, , 5298.	4.1	174
85	Selective Extraction of Peptides from Human Plasma by Highly Ordered Mesoporous Silica Particles for Peptidome Analysis. Angewandte Chemie - International Edition, 2007, 46, 962-965.	13.8	174
86	Unusual Mesoporous SBA-15 with Parallel Channels Running along the Short Axis. Journal of the American Chemical Society, 2004, 126, 7440-7441.	13.7	173
87	Stackedâ€Layer Heterostructure Films of 2D Thiophene Nanosheets and Graphene for Highâ€Rate Allâ€Solidâ€State Pseudocapacitors with Enhanced Volumetric Capacitance. Advanced Materials, 2017, 29, 1602960.	21.0	173
88	Growth Mechanism of Graphene on Ru(0001) and O₂ Adsorption on the Graphene/Ru(0001) Surface. Journal of Physical Chemistry C, 2009, 113, 8296-8301.	3.1	172
89	Synthesis and characterization of microporous carbon nitride. Microporous and Mesoporous Materials, 2008, 110, 216-222.	4.4	167
90	Supported Pdâ€“Cu Bimetallic Nanoparticles That Have High Activity for the Electrochemical Oxidation of Methanol. Chemistry - A European Journal, 2012, 18, 4887-4893.	3.3	166

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91	Probing the Electronic Effect of Carbon Nanotubes in Catalysis: NH₃ Synthesis with Ru Nanoparticles. Chemistry - A European Journal, 2010, 16, 5379-5384.	3.3	164
92	Reaction-Induced Strong Metalâ€“Support Interactions between Metals and Inert Boron Nitride Nanosheets. Journal of the American Chemical Society, 2020, 142, 17167-17174.	13.7	164
93	Cu-exchanged Al-rich SSZ-13 zeolite from organotemplate-free synthesis as NH3-SCR catalyst: Effects of Na+ ions on the activity and hydrothermal stability. Applied Catalysis B: Environmental, 2017, 217, 421-428.	20.2	161
94	On the nature of the active state of silver during catalytic oxidation of methanol. Catalysis Letters, 1993, 22, 215-225.	2.6	160
95	The Effect of Water on the CO Oxidation on Ag(111) and Au(111) Surfaces: A First-Principle Study. Journal of Physical Chemistry C, 2008, 112, 17303-17310.	3.1	160
96	All-solid-state flexible planar lithium ion micro-capacitors. Energy and Environmental Science, 2018, 11, 2001-2009.	30.8	160
97	The Road Towards Planar Microbatteries and Microâ€Supercapacitors: From 2D to 3D Device Geometries. Advanced Materials, 2019, 31, e1900583.	21.0	160
98	<i>In situ</i> exsolved FeNi₃ nanoparticles on nickel doped Sr₂Fe_{1.5}Mo_{0.5}O_{6âˆ'Î´} perovskite for efficient electrochemical CO₂ reduction reaction. Journal of Materials Chemistry A, 2019, 7, 11967-11975.	10.3	159
99	Chain Mail for Catalysts. Angewandte Chemie - International Edition, 2020, 59, 15294-15297.	13.8	159
100	Enhancing CO2 electrolysis performance with vanadium-doped perovskite cathode in solid oxide electrolysis cell. Nano Energy, 2018, 50, 43-51.	16.0	158
101	Direct conversion of syngas to aromatics. Chemical Communications, 2017, 53, 11146-11149.	4.1	156
102	On the acid-dealumination of USY zeolite: a solid state NMR investigation. Journal of Molecular Catalysis A, 2003, 194, 153-167.	4.8	153
103	Porous Palladium Nanoflowers that Have Enhanced Methanol Electro-Oxidation Activity. Journal of Physical Chemistry C, 2009, 113, 1001-1005.	3.1	153
104	Structure Sensitivity in Single-Atom Catalysis toward CO₂ Electroreduction. ACS Energy Letters, 2021, 6, 713-727.	17.4	149
105	Scalable fabrication of printed Zn//MnO2 planar micro-batteries with high volumetric energy density and exceptional safety. National Science Review, 2020, 7, 64-72.	9.5	148
106	Catalysis for Selected C1 Chemistry. CheM, 2020, 6, 2497-2514.	11.7	148
107	Structure and acidity of Mo/ZSM-5 synthesized by solid state reaction for methane dehydrogenation and aromatization. Microporous and Mesoporous Materials, 2006, 88, 244-253.	4.4	147
108	Title is missing!. Catalysis Letters, 2000, 70, 67-73.	2.6	146

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109	Structural and electronic optimization of graphene encapsulating binary metal for highly efficient water oxidation. Nano Energy, 2018, 52, 494-500.	16.0	145
110	Enhancing CO₂ Electroreduction to Methane with a Cobalt Phthalocyanine and Zincâ€“Nitrogenâ€“Carbon Tandem Catalyst. Angewandte Chemie - International Edition, 2020, 59, 22408-22413.	13.8	145
111	Metal/oxide interfacial effects on the selective oxidation of primary alcohols. Nature Communications, 2017, 8, 14039.	12.8	144
112	N-doped graphene as an electron donor of iron catalysts for CO hydrogenation to light olefins. Chemical Communications, 2015, 51, 217-220.	4.1	142
113	2D mesoporous MnO2 nanosheets for high-energy asymmetric micro-supercapacitors in water-in-salt gel electrolyte. Energy Storage Materials, 2019, 18, 397-404.	18.0	140
114	Overturning CO₂ Hydrogenation Selectivity with High Activity via Reaction-Induced Strong Metalâ€“Support Interactions. Journal of the American Chemical Society, 2022, 144, 4874-4882.	13.7	139
115	In situsolid-state NMR for heterogeneous catalysis: a joint experimental and theoretical approach. Chemical Society Reviews, 2012, 41, 192-210.	38.1	136
116	Direct Observation of the Active Center for Methane Dehydroaromatization Using an Ultrahigh Field ⁹⁵Mo NMR Spectroscopy. Journal of the American Chemical Society, 2008, 130, 3722-3723.	13.7	134
117	Solid-state MAS NMR studies on the hydrothermal stability of the zeolite catalysts for residual oil selective catalytic cracking. Journal of Catalysis, 2004, 228, 234-242.	6.2	132
118	Grapheneâ€Based Linear Tandem Microâ€Supercapacitors with Metalâ€Free Current Collectors and Highâ€Voltage Output. Advanced Materials, 2017, 29, 1703034.	21.0	132
119	Progress of Photodetectors Based on the Photothermoelectric Effect. Advanced Materials, 2019, 31, e1902044.	21.0	132
120	Hexagonal Boron Nitride Cover on Pt(111): A New Route to Tune Moleculeâ€“Metal Interaction and Metal-Catalyzed Reactions. Nano Letters, 2015, 15, 3616-3623.	9.1	131
121	Carbon doping of hexagonal boron nitride porous materials toward CO₂ capture. Journal of Materials Chemistry A, 2018, 6, 1832-1839.	10.3	131
122	Carbonaceous Deposition on Mo/HMCM-22 Catalysts for Methane Aromatization: A TP Technique Investigation. Journal of Catalysis, 2002, 208, 260-269.	6.2	130
123	Enhanced CO₂ Methanation Activity of Ni/Anatase Catalyst by Tuning Strong Metalâ€“Support Interactions. ACS Catalysis, 2019, 9, 6342-6348.	11.2	127
124	Three-dimensionally hierarchical MoS2/graphene architecture for high-performance hydrogen evolution reaction. Nano Energy, 2019, 61, 611-616.	16.0	127
125	Co-electrolysis of CO2 and H2O in high-temperature solid oxide electrolysis cells: Recent advance in cathodes. Journal of Energy Chemistry, 2017, 26, 839-853.	12.9	125
126	Combined Redox Couples for Catalytic Oxidation of Methane by Dioxygen at Low Temperatures. Journal of the American Chemical Society, 2006, 128, 16028-16029.	13.7	123

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127	Experimental observation of quantum oscillation of surface chemical reactivities. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9204-9208.	7.1	123
128	Hydrothermal synthesis of microscale boehmite and gamma nanoleaves alumina. Materials Letters, 2008, 62, 1297-1301.	2.6	123
129	Recent advances of graphene-based materials for high-performance and new-concept supercapacitors. Journal of Energy Chemistry, 2018, 27, 25-42.	12.9	123
130	Direct synthesis, characterization and catalytic activity of titanium-substituted SBA-15 mesoporous molecular sieves. Applied Catalysis A: General, 2004, 273, 185-191.	4.3	122
131	Distance Synergy of MoS₂â€Confined Rhodium Atoms for Highly Efficient Hydrogen Evolution. Angewandte Chemie - International Edition, 2020, 59, 10502-10507.	13.8	122
132	Arbitrary-Shaped Graphene-Based Planar Sandwich Supercapacitors on One Substrate with Enhanced Flexibility and Integration. ACS Nano, 2017, 11, 2171-2179.	14.6	121
133	Carbon dioxide electroreduction over imidazolate ligands coordinated with Zn(II) center in ZIFs. Nano Energy, 2018, 52, 345-350.	16.0	121
134	Methane Dehydro-aromatization under Nonoxidative Conditions over Mo/HZSM-5 Catalysts: EPR Study of the Mo Species on/in the HZSM-5 Zeolite. Journal of Catalysis, 2000, 189, 314-325.	6.2	120
135	Ionic liquid pre-intercalated MXene films for ionogel-based flexible micro-supercapacitors with high volumetric energy density. Journal of Materials Chemistry A, 2019, 7, 9478-9485.	10.3	120
136	Engineered Complex Emulsion System:Â Toward Modulating the Pore Length and Morphological Architecture of Mesoporous Silicas. Journal of Physical Chemistry B, 2006, 110, 25908-25915.	2.6	116
137	Oxygen-induced restructuring of Ag(111). Surface Science, 1993, 284, 14-22.	1.9	115
138	Tailored cutting of carbon nanotubes and controlled dispersion of metal nanoparticles inside their channels. Journal of Materials Chemistry, 2008, 18, 5782.	6.7	114
139	A nickel nanocatalyst within a h-BN shell for enhanced hydrogen oxidation reactions. Chemical Science, 2017, 8, 5728-5734.	7.4	113
140	Highly efficient H₂ production from H₂S <i>via</i> a robust graphene-encapsulated metal catalyst. Energy and Environmental Science, 2020, 13, 119-126.	30.8	113
141	Ultrafast enzyme immobilization over large-pore nanoscale mesoporous silica particles. Chemical Communications, 2006, , 1322.	4.1	112
142	Phonon-enhanced photothermoelectric effect in SrTiO3 ultra-broadband photodetector. Nature Communications, 2019, 10, 138.	12.8	112
143	Methane Dehydro-aromatization over Mo/HZSM-5 in the Absence of Oxygen: A Multinuclear Solid-State NMR Study of the Interaction between Supported Mo Species and HZSM-5 Zeolite with Different Crystal Sizes. Journal of Catalysis, 1999, 188, 393-402.	6.2	111
144	Direct synthesis of uniform hollow carbon spheres by a self-assembly template approachElectronic supplementary information (ESI) available: SEM pictures of the products from simple mixing. See http://www.rsc.org/suppdata/cc/b2/b205723a/. Chemical Communications, 2002, , 1948-1949.	4.1	111

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145	Restructuring and Redispersion of Silver on SiO2under Oxidizing/Reducing Atmospheres and Its Activity toward CO Oxidation. Journal of Physical Chemistry B, 2005, 109, 15842-15848.	2.6	111
146	Methane dehydroaromatization under nonoxidative conditions over Mo/HZSM-5 catalysts: Identification and preparation of the Mo active species. Journal of Catalysis, 2006, 239, 441-450.	6.2	110
147	Mo/HMCM-22 Catalysts for Methane Dehydroaromatization:â€‰ A Multinuclear MAS NMR Study. Journal of Physical Chemistry B, 2001, 105, 1786-1793.	2.6	109
148	Pentacoordinated Al³⁺â€Stabilized Active Pd Structures on Al₂O₃â€Coated Palladium Catalysts for Methane Combustion. Angewandte Chemie - International Edition, 2019, 58, 12043-12048.	13.8	109
149	Title is missing!. Catalysis Letters, 2000, 66, 155-160.	2.6	104
150	Remarkable Improvement on the Methane Aromatization Reaction:â€‰ A Highly Selective and Coking-Resistant Catalyst. Journal of Physical Chemistry B, 2002, 106, 8524-8530.	2.6	104
151	FeN nanoparticles confined in carbon nanotubes for CO hydrogenation. Energy and Environmental Science, 2011, 4, 4500.	30.8	104
152	Oneâ€Step Scalable Fabrication of Grapheneâ€Integrated Microâ€Supercapacitors with Remarkable Flexibility and Exceptional Performance Uniformity. Advanced Functional Materials, 2019, 29, 1902860.	14.9	104
153	A highâ€resolution solidâ€state NMR study on nanoâ€structured HZSMâ€5 zeolite. Catalysis Letters, 1999, 60, 89-94.	2.6	102
154	Promoting exsolution of RuFe alloy nanoparticles on Sr2Fe1.4Ru0.1Mo0.5O6âˆ'Î´ via repeated redox manipulations for CO2 electrolysis. Nature Communications, 2021, 12, 5665.	12.8	102
155	Synthesis of Fe/Fe3C nanoparticles encapsulated in nitrogen-doped carbon with single-source molecular precursor for the oxygen reduction reaction. Carbon, 2014, 75, 381-389.	10.3	101
156	Rational approach to guest confinement inside MOF cavities for low-temperature catalysis. Nature Communications, 2019, 10, 1340.	12.8	100
157	Size Effects of ZnO Nanoparticles in Bifunctional Catalysts for Selective Syngas Conversion. ACS Catalysis, 2019, 9, 960-966.	11.2	100
158	Modulation-doped growth of mosaic graphene with single-crystalline pâ€“n junctions for efficient photocurrent generation. Nature Communications, 2012, 3, 1280.	12.8	97
159	Monodispersed bimetallic PdAg nanoparticles with twinned structures: Formation and enhancement for the methanol oxidation. Scientific Reports, 2014, 4, 4288.	3.3	97
160	Alkanes-assisted low temperature formation of highly ordered SBA-15 with large cylindrical mesopores. Chemical Communications, 2005, , 5343.	4.1	96
161	High Packing Density Unidirectional Arrays of Vertically Aligned Graphene with Enhanced Areal Capacitance for High-Power Micro-Supercapacitors. ACS Nano, 2017, 11, 4009-4016.	14.6	96
162	Freestanding Graphene by Thermal Splitting of Silicon Carbide Granules. Advanced Materials, 2010, 22, 2168-2171.	21.0	95

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