

Jeffrey T Miller

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209
papers

12,042
citations

64
h-index

102
g-index

221
ext. papers

14,828
ext. citations

10.7
avg, IF

6.53
L-index

#	Paper	IF	Citations
209	Dynamic multinuclear sites formed by mobilized copper ions in NO selective catalytic reduction. <i>Science</i> , 2017 , 357, 898-903	33.3	458
208	Low-temperature carbon monoxide oxidation catalysed by regenerable atomically dispersed palladium on alumina. <i>Nature Communications</i> , 2014 , 5, 4885	17.4	409
207	Catalysis in a Cage: Condition-Dependent Speciation and Dynamics of Exchanged Cu Cations in SSZ-13 Zeolites. <i>Journal of the American Chemical Society</i> , 2016 , 138, 6028-48	16.4	405
206	Size and support effects for the water-gas shift catalysis over gold nanoparticles supported on model Al ₂ O ₃ and TiO ₂ . <i>Journal of the American Chemical Society</i> , 2012 , 134, 4700-8	16.4	329
205	Cleavage and hydrodeoxygenation (HDO) of C–O bonds relevant to lignin conversion using Pd/Zn synergistic catalysis. <i>Chemical Science</i> , 2013 , 4, 806-813	9.4	262
204	High-Density Ultra-small Clusters and Single-Atom Fe Sites Embedded in Graphitic Carbon Nitride (g-CN) for Highly Efficient Catalytic Advanced Oxidation Processes. <i>ACS Nano</i> , 2018 , 12, 9441-9450	16.7	251
203	Breaking the scaling relationship via thermally stable Pt/Cu single atom alloys for catalytic dehydrogenation. <i>Nature Communications</i> , 2018 , 9, 4454	17.4	250
202	Identification of the active Cu site in standard selective catalytic reduction with ammonia on Cu-SSZ-13. <i>Journal of Catalysis</i> , 2014 , 312, 87-97	7.3	247
201	Isolation of the copper redox steps in the standard selective catalytic reduction on Cu-SSZ-13. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 11828-33	16.4	245
200	Sintering-Resistant Single-Site Nickel Catalyst Supported by Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2016 , 138, 1977-82	16.4	233
199	High-Performance Transition Metal Phosphide Alloy Catalyst for Oxygen Evolution Reaction. <i>ACS Nano</i> , 2018 , 12, 158-167	16.7	231
198	Propylene Hydrogenation and Propane Dehydrogenation by a Single-Site Zn ²⁺ on Silica Catalyst. <i>ACS Catalysis</i> , 2014 , 4, 1091-1098	13.1	186
197	In situ fabrication of porous-carbon-supported MnO ₂ nanorods at room temperature: application for rechargeable LiD ₂ batteries. <i>Energy and Environmental Science</i> , 2013 , 6, 519	35.4	164
196	Reactive metal-support interactions at moderate temperature in two-dimensional niobium-carbide-supported platinum catalysts. <i>Nature Catalysis</i> , 2018 , 1, 349-355	36.5	154
195	Inverse spinel NiFeAlO ₄ as a highly active oxygen evolution electrocatalyst: promotion of activity by a redox-inert metal ion. <i>Energy and Environmental Science</i> , 2014 , 7, 1382	35.4	144
194	Selective propane dehydrogenation with single-site CoII on SiO ₂ by a non-redox mechanism. <i>Journal of Catalysis</i> , 2015 , 322, 24-37	7.3	138
193	On the Relation between Particle Morphology, Structure of the Metal-Support Interface, and Catalytic Properties of Pt/Al ₂ O ₃ . <i>Journal of Catalysis</i> , 1996 , 163, 294-305	7.3	138

192	Nanoceria-Supported Single-Atom Platinum Catalysts for Direct Methane Conversion. <i>ACS Catalysis</i> , 2018 , 8, 4044-4048	13.1	135
191	NO oxidation: A probe reaction on Cu-SSZ-13. <i>Journal of Catalysis</i> , 2014 , 312, 179-190	7.3	133
190	Graphite-Conjugated Rhenium Catalysts for Carbon Dioxide Reduction. <i>Journal of the American Chemical Society</i> , 2016 , 138, 1820-3	16.4	127
189	Stabilizing High Metal Loadings of Thermally Stable Platinum Single Atoms on an Industrial Catalyst Support. <i>ACS Catalysis</i> , 2019 , 9, 3978-3990	13.1	126
188	A fundamental study of platinum tetraammine impregnation of silica ² . The effect of method of preparation, loading, and calcination temperature on (reduced) particle size. <i>Journal of Catalysis</i> , 2004 , 225, 203-212	7.3	125
187	Ensemble Effect in Bimetallic Electrocatalysts for CO Reduction. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16635-16642	16.4	122
186	Direct observation of reduction of Cu(II) to Cu(I) by terminal alkynes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 924-6	16.4	120
185	Two-dimensional transition metal carbides as supports for tuning the chemistry of catalytic nanoparticles. <i>Nature Communications</i> , 2018 , 9, 5258	17.4	117
184	Cleaner water using bimetallic nanoparticle catalysts. <i>Journal of Chemical Technology and Biotechnology</i> , 2009 , 84, 158-166	3.5	116
183	A Hafnium-Based Metal-Organic Framework as a Nature-Inspired Tandem Reaction Catalyst. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13624-31	16.4	115
182	Single-Atom Alloy Pd ₄ Ag Catalyst for Selective Hydrogenation of Acrolein. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 18140-18148	3.8	111
181	Gas-Phase Dimerization of Ethylene under Mild Conditions Catalyzed by MOF Materials Containing (bpy)Ni(II) Complexes. <i>ACS Catalysis</i> , 2015 , 5, 6713-6718	13.1	109
180	Isolated Fe(II) on Silica As a Selective Propane Dehydrogenation Catalyst. <i>ACS Catalysis</i> , 2015 , 5, 3494-3503	13.1	108
179	A pyridinic Fe-N macrocycle models the active sites in Fe/N-doped carbon electrocatalysts. <i>Nature Communications</i> , 2020 , 11, 5283	17.4	107
178	Genesis and Evolution of Surface Species during Pt Atomic Layer Deposition on Oxide Supports Characterized by in Situ XAFS Analysis and Water-Gas Shift Reaction. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 9758-9771	3.8	106
177	Low absorption vitreous carbon reactors for operando XAS: a case study on Cu/Zeolites for selective catalytic reduction of NO(x) by NH ₃ . <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 2229-38	3.6	104
176	Atomically precise single-crystal structures of electrically conducting 2D metal-organic frameworks. <i>Nature Materials</i> , 2021 , 20, 222-228	27	104
175	Insights into Nitrate Reduction over Indium-Decorated Palladium Nanoparticle Catalysts. <i>ACS Catalysis</i> , 2018 , 8, 503-515	13.1	102

174	Zinc Promotion of Platinum for Catalytic Light Alkane Dehydrogenation: Insights into Geometric and Electronic Effects. <i>ACS Catalysis</i> , 2017 , 7, 4173-4181	13.1	100
173	Engineering single-atomic ruthenium catalytic sites on defective nickel-iron layered double hydroxide for overall water splitting. <i>Nature Communications</i> , 2021 , 12, 4587	17.4	98
172	Plasmonic Ag@Ag ₃ (PO ₄) _{1.5} nanoparticle photosensitized ZnO nanorod-array photoanodes for water oxidation. <i>Energy and Environmental Science</i> , 2012 , 5, 8917	35.4	97
171	Synthesis of PtPd CoreShell Nanostructures by Atomic Layer Deposition: Application in Propane Oxidative Dehydrogenation to Propylene. <i>Chemistry of Materials</i> , 2012 , 24, 3525-3533	9.6	96
170	Differences in the Nature of Active Sites for Methane Dry Reforming and Methane Steam Reforming over Nickel Aluminate Catalysts. <i>ACS Catalysis</i> , 2016 , 6, 5873-5886	13.1	94
169	Single-Site Organozirconium Catalyst Embedded in a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15680-3	16.4	90
168	Effect of Particle Size and Adsorbates on the L3, L2 and L1 X-ray Absorption Near Edge Structure of Supported Pt Nanoparticles. <i>Topics in Catalysis</i> , 2011 , 54, 334-348	2.3	90
167	Reversible loss of core-shell structure for NiAu bimetallic nanoparticles during CO ₂ hydrogenation. <i>Nature Catalysis</i> , 2020 , 3, 411-417	36.5	88
166	Metallic Pt as active sites for the water-gas shift reaction on alkali-promoted supported catalysts. <i>Journal of Catalysis</i> , 2012 , 286, 279-286	7.3	87
165	PdRh intermetallic alloy nanoparticles: highly selective ethane dehydrogenation catalysts. <i>Catalysis Science and Technology</i> , 2016 , 6, 6965-6976	5.5	85
164	Methods for NH ₃ titration of Brønsted acid sites in Cu-zeolites that catalyze the selective catalytic reduction of NO _x with NH ₃ . <i>Journal of Catalysis</i> , 2014 , 312, 26-36	7.3	85
163	A comparison of N-containing carbon nanostructures (CN) and N-coordinated iron-carbon catalysts (FeNC) for the oxygen reduction reaction in acidic media. <i>Journal of Catalysis</i> , 2014 , 317, 30-43	7.3	84
162	Structure and reactivity of PtRh intermetallic alloy nanoparticles: Highly selective catalysts for ethane dehydrogenation. <i>Catalysis Today</i> , 2018 , 299, 146-153	5.3	83
161	NO disproportionation at a mononuclear site-isolated Fe(2+) center in Fe(2+)-MOF-5. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7495-501	16.4	82
160	Strong Electronic Coupling of Molecular Sites to Graphitic Electrodes via Pyrazine Conjugation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1004-1010	16.4	78
159	Changes in Catalytic and Adsorptive Properties of 2 nm PtMn Nanoparticles by Subsurface Atoms. <i>Journal of the American Chemical Society</i> , 2018 , 140, 14870-14877	16.4	78
158	Continuous Electrical Conductivity Variation in M(Hexamino-triphenylene) (M = Co, Ni, Cu) MOF Alloys. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12367-12373	16.4	75
157	A multicentre-bonded [Zn(II)] ₈ cluster with cubic aromaticity. <i>Nature Communications</i> , 2015 , 6, 6331	17.4	73

156	Use of H ₂ S to Probe the Active Sites in FeNC Catalysts for the Oxygen Reduction Reaction (ORR) in Acidic Media. <i>ACS Catalysis</i> , 2014 , 4, 3454-3462	13.1	73
155	Reverse Water-Gas Shift on Interfacial Sites Formed by Deposition of Oxidized Molybdenum Moieties onto Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10317-25	16.4	72
154	Organometallic model complexes elucidate the active gallium species in alkane dehydrogenation catalysts based on ligand effects in Ga K-edge XANES. <i>Catalysis Science and Technology</i> , 2016 , 6, 6339-6353	5.5	72
153	Reduction Characteristics of Ceria under Ethanol Steam Reforming Conditions: Effect of the Particle Size. <i>ACS Catalysis</i> , 2014 , 4, 585-592	13.1	71
152	Surface structural-chemical characterization of a single-site d ₀ heterogeneous arene hydrogenation catalyst having 100% active sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 413-8	11.5	71
151	Labile Cu(I) catalyst/spectator Cu(II) species in copper-catalyzed C-C coupling reaction: operando IR, in situ XANES/EXAFS evidence and kinetic investigations. <i>Journal of the American Chemical Society</i> , 2013 , 135, 488-93	16.4	70
150	In Situ Formed PtTi Nanoparticles on a Two-Dimensional Transition Metal Carbide (MXene) Used as Efficient Catalysts for Hydrogen Evolution Reactions. <i>Nano Letters</i> , 2019 , 19, 5102-5108	11.5	69
149	Determination of CO, H ₂ O and H ₂ coverage by XANES and EXAFS on Pt and Au during water gas shift reaction. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 5678-93	3.6	69
148	Identification of a Pt ₃ Co Surface Intermetallic Alloy in Pt ₃ Co Propane Dehydrogenation Catalysts. <i>ACS Catalysis</i> , 2019 , 9, 5231-5244	13.1	68
147	An introduction to X-ray absorption spectroscopy and its in situ application to organometallic compounds and homogeneous catalysts. <i>Catalysis Science and Technology</i> , 2012 , 2, 461-470	5.5	68
146	A molecular cross-linking approach for hybrid metal oxides. <i>Nature Materials</i> , 2018 , 17, 341-348	27	66
145	Mechanistic Study of CO ₂ Photoreduction with H ₂ O on Cu/TiO ₂ Nanocomposites by in Situ X-ray Absorption and Infrared Spectroscopies. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 490-499	3.8	64
144	The Dynamic Nature of Brønsted Acid Sites in Cu Zeolites During NO _x Selective Catalytic Reduction: Quantification by Gas-Phase Ammonia Titration. <i>Topics in Catalysis</i> , 2015 , 58, 424-434	2.3	63
143	Selective hydrogenation of acrolein on supported silver catalysts: A kinetics study of particle size effects. <i>Journal of Catalysis</i> , 2013 , 298, 18-26	7.3	63
142	X-ray absorption and EPR evidence for a single electron redox process in copper catalysis. <i>Chemical Science</i> , 2015 , 6, 4851-4854	9.4	60
141	Benzene selectivity in competitive arene hydrogenation: effects of single-site catalyst acidic oxide surface binding geometry. <i>Journal of the American Chemical Society</i> , 2015 , 137, 6770-80	16.4	59
140	Adsorbate-induced structural changes in 1-3 nm platinum nanoparticles. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9320-6	16.4	59
139	Volcano-shape glycerol oxidation activity of palladium-decorated gold nanoparticles. <i>Chemical Science</i> , 2014 , 5, 3715-3728	9.4	58

138	Modifying structure-sensitive reactions by addition of Zn to Pd. <i>Journal of Catalysis</i> , 2014 , 318, 75-84	7.3	58
137	Lewis acid enhancement by juxtaposition with an onium ion: the case of a mercury stibonium complex. <i>Chemical Science</i> , 2012 , 3, 1128	9.4	58
136	Structural evolution of an intermetallic Pd-Zn catalyst selective for propane dehydrogenation. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 28144-53	3.6	57
135	Highly Stereoselective Heterogeneous Diene Polymerization by Co-MFU-4l: A Single-Site Catalyst Prepared by Cation Exchange. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12664-12669	16.4	57
134	Hydrodechlorination catalysis of Pd-on-Au nanoparticles varies with particle size. <i>Journal of Catalysis</i> , 2013 , 298, 206-217	7.3	56
133	Single-site zinc on silica catalysts for propylene hydrogenation and propane dehydrogenation: Synthesis and reactivity evaluation using an integrated atomic layer deposition-catalysis instrument. <i>Journal of Catalysis</i> , 2017 , 345, 170-182	7.3	55
132	Water-gas shift catalysis over transition metals supported on molybdenum carbide. <i>Journal of Catalysis</i> , 2015 , 331, 162-171	7.3	54
131	Single-Site Palladium(II) Catalyst for Oxidative Heck Reaction: Catalytic Performance and Kinetic Investigations. <i>ACS Catalysis</i> , 2015 , 5, 3752-3759	13.1	53
130	Compression-induced deformation of individual metal-organic framework microcrystals. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1750-3	16.4	53
129	Aqueous Phase Glycerol Reforming by PtMo Bimetallic Nano-Particle Catalyst: Product Selectivity and Structural Characterization. <i>Topics in Catalysis</i> , 2012 , 55, 53-69	2.3	53
128	Establishing Relationships Between the Geometric Structure and Chemical Reactivity of Alloy Catalysts Based on Their Measured Electronic Structure. <i>Topics in Catalysis</i> , 2010 , 53, 348-356	2.3	53
127	A Structural Mimic of Carbonic Anhydrase in a Metal-Organic Framework. <i>CheM</i> , 2018 , 4, 2894-2901	16.2	53
126	Bond breakage under pressure in a metal organic framework. <i>Chemical Science</i> , 2017 , 8, 8004-8011	9.4	52
125	Synthesis and characterization of uniformly dispersed Fe ₃ O ₄ /Fe nanocomposite on porous carbon: application for rechargeable LiO ₂ batteries. <i>RSC Advances</i> , 2013 , 3, 8276	3.7	52
124	Stabilized Vanadium Catalyst for Olefin Polymerization by Site Isolation in a Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8135-8139	16.4	51
123	Structural analysis of palladium-decorated gold nanoparticles as colloidal bimetallic catalysts. <i>Catalysis Today</i> , 2011 , 160, 96-102	5.3	51
122	Enhancement of m-Cresol Hydrodeoxygenation Selectivity on Ni Catalysts by Surface Decoration of MoO _x Species. <i>ACS Catalysis</i> , 2019 , 9, 7791-7800	13.1	49
121	Dominant Role of Entropy in Stabilizing Sugar Isomerization Transition States within Hydrophobic Zeolite Pores. <i>Journal of the American Chemical Society</i> , 2018 , 140, 14244-14266	16.4	48

120	Highly Selective Heterogeneous Ethylene Dimerization with a Scalable and Chemically Robust MOF Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 6654-6661	8.3	47
119	Selective Dimerization of Propylene with Ni-MFU-4l. <i>Organometallics</i> , 2017 , 36, 1681-1683	3.8	45
118	Carbon Nitride-Based Ruthenium Single Atom Photocatalyst for CO Reduction to Methanol. <i>Small</i> , 2021 , 17, e2006478	11	43
117	Interface-mediated noble metal deposition on transition metal dichalcogenide nanostructures. <i>Nature Chemistry</i> , 2020 , 12, 284-293	17.6	42
116	Copper-/Cobalt-Catalyzed Highly Selective Radical Dioxygenation of Alkenes. <i>Organic Letters</i> , 2015 , 17, 3402-5	6.2	41
115	Speciation and kinetic study of iron promoted sugar conversion to 5-hydroxymethylfurfural (HMF) and levulinic acid (LA). <i>Organic Chemistry Frontiers</i> , 2015 , 2, 1388-1396	5.2	40
114	Propane Dehydrogenation on Single-Site [PtZn4] Intermetallic Catalysts. <i>Chem</i> , 2021 , 7, 387-405	16.2	40
113	Stabilization of Copper Catalysts for Liquid-Phase Reactions by Atomic Layer Deposition. <i>Angewandte Chemie</i> , 2013 , 125, 14053-14057	3.6	39
112	Evidence for the Coordination-Insertion Mechanism of Ethene Dimerization at Nickel Cations Exchanged onto Beta Molecular Sieves. <i>ACS Catalysis</i> , 2018 , 8, 11407-11422	13.1	37
111	Structural and kinetic changes to small-pore Cu-zeolites after hydrothermal aging treatments and selective catalytic reduction of NOx with ammonia. <i>Reaction Chemistry and Engineering</i> , 2017 , 2, 168-179	4.9	36
110	Designing Highly Efficient and Long-Term Durable Electrocatalyst for Oxygen Evolution by Coupling B and P into Amorphous Porous NiFe-Based Material. <i>Small</i> , 2019 , 15, e1901020	11	36
109	Selective Adsorption of Manganese onto Rhodium for Optimized Mn/Rh/SiO2 Alcohol Synthesis Catalysts. <i>ChemCatChem</i> , 2013 , 5, 3665-3672	5.2	36
108	Isolation of the Copper Redox Steps in the Standard Selective Catalytic Reduction on Cu-SSZ-13. <i>Angewandte Chemie</i> , 2014 , 126, 12022-12027	3.6	35
107	In situ diffraction of highly dispersed supported platinum nanoparticles. <i>Catalysis Science and Technology</i> , 2014 , 4, 3053-3063	5.5	34
106	Spectroscopic and kinetic responses of Cu-SSZ-13 to SO2 exposure and implications for NOx selective catalytic reduction. <i>Applied Catalysis A: General</i> , 2019 , 574, 122-131	5.1	33
105	Effect of Siloxane Ring Strain and Cation Charge Density on the Formation of Coordinately Unsaturated Metal Sites on Silica: Insights from Density Functional Theory (DFT) Studies. <i>ACS Catalysis</i> , 2015 , 5, 7177-7185	13.1	32
104	Effect of Cobalt on Reduction Characteristics of Ceria under Ethanol Steam Reforming Conditions: AP-XPS and XANES Studies. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 14631-14642	3.8	32
103	High-Capacitance Pseudocapacitors from Li Ion Intercalation in Nonporous, Electrically Conductive 2D Coordination Polymers. <i>Journal of the American Chemical Society</i> , 2021 , 143, 2285-2292	16.4	31

102	Valorization of Shale Gas Condensate to Liquid Hydrocarbons through Catalytic Dehydrogenation and Oligomerization. <i>Processes</i> , 2018 , 6, 139	2.9	31
101	The Nature of the Isolated Gallium Active Center for Propane Dehydrogenation on Ga/SiO ₂ . <i>Catalysis Letters</i> , 2017 , 147, 1252-1262	2.8	30
100	Identification of Surface Structures in Pt ₃ Cr Intermetallic Nanocatalysts. <i>Chemistry of Materials</i> , 2019 , 31, 1597-1609	9.6	29
99	Evolution of N-Coordinated Iron-Carbon (FeNC) Catalysts and Their Oxygen Reduction (ORR) Performance in Acidic Media at Various Stages of Catalyst Synthesis: An Attempt at Benchmarking. <i>Catalysis Letters</i> , 2016 , 146, 1749-1770	2.8	29
98	Effect of Cu content on the bimetallic Pt ₁ Cu catalysts for propane dehydrogenation 2017 , 3, 43-53		28
97	Aqueous Phase Glycerol Reforming with Pt and PtMo Bimetallic Nanoparticle Catalysts: The Role of the Mo Promoter. <i>Topics in Catalysis</i> , 2013 , 56, 1814-1828	2.3	28
96	Conversion of Dimethyl Ether to 2,2,3-Trimethylbutane over a Cu/BEA Catalyst: Role of Cu Sites in Hydrogen Incorporation. <i>ACS Catalysis</i> , 2015 , 5, 1794-1803	13.1	26
95	Air- and water-resistant noble metal coated ferromagnetic cobalt nanorods. <i>ACS Nano</i> , 2015 , 9, 2792-8046.7	4.7	25
94	Effects of dioxygen pressure on rates of NO _x selective catalytic reduction with NH ₃ on Cu-CHA zeolites. <i>Journal of Catalysis</i> , 2020 , 389, 140-149	7.3	25
93	Intermetallic Compounds as an Alternative to Single-atom Alloy Catalysts: Geometric and Electronic Structures from Advanced X-ray Spectroscopies and Computational Studies. <i>ChemCatChem</i> , 2020 , 12, 1325-1333	5.2	25
92	Ethanol Conversion to Butadiene over Isolated Zinc and Yttrium Sites Grafted onto Dealuminated Beta Zeolite. <i>Journal of the American Chemical Society</i> , 2020 , 142, 14674-14687	16.4	25
91	Deconvolution of octahedral PtNi nanoparticle growth pathway from in situ characterizations. <i>Nature Communications</i> , 2018 , 9, 4485	17.4	25
90	Supported Tetrahedral Oxo-Sn Catalyst: Single Site, Two Modes of Catalysis. <i>Journal of the American Chemical Society</i> , 2016 , 138, 4294-7	16.4	24
89	Promotion of Pd nanoparticles by Fe and formation of a Pd ₃ Fe intermetallic alloy for propane dehydrogenation. <i>Catalysis Today</i> , 2019 , 323, 123-128	5.3	24
88	Molybdenum Oxide, Oxycarbide, and Carbide: Controlling the Dynamic Composition, Size, and Catalytic Activity of Zeolite-Supported Nanostructures. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 22281-22292.4	13.8	24
87	Operando Spectroscopic and Kinetic Characterization of Aerobic Allylic C-H Acetoxylation Catalyzed by Pd(OAc) ₂ /4,5-Diazafluoren-9-one. <i>Journal of the American Chemical Society</i> , 2019 , 141, 10462-10474.3	16.4	23
86	Surface Hexagonal PtSn Intermetallic on Pt Nanoparticles for Selective Propane Dehydrogenation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 25903-25909	9.5	23
85	Concerted Growth and Ordering of Cobalt Nanorod Arrays as Revealed by Tandem in Situ SAXS-XAS Studies. <i>Journal of the American Chemical Society</i> , 2016 , 138, 8422-31	16.4	23

84	In situ intermediate-energy X-ray catalysis research at the advanced photon source beamline 9-BM. <i>Catalysis Today</i> , 2013 , 205, 141-147	5.3	23
83	Simultaneous Measurement of X-ray Absorption Spectra and Kinetics: A Fixed-bed, Plug-flow Operando Reactor. <i>Catalysis Letters</i> , 2009 , 131, 1-6	2.8	23
82	Origin of Electronic Modification of Platinum in a Pt3V Alloy and Its Consequences for Propane Dehydrogenation Catalysis. <i>ACS Applied Energy Materials</i> , 2020 , 3, 1410-1422	6.1	23
81	Identification of the structure of the Bi promoted Pt non-oxidative coupling of methane catalyst: a nanoscale Pt3Bi intermetallic alloy. <i>Catalysis Science and Technology</i> , 2019 , 9, 1349-1356	5.5	22
80	Operando X-ray Absorption Spectroscopy Studies of Sintering for Supported Copper Catalysts during Liquid-phase Reaction. <i>ChemCatChem</i> , 2014 , 6, 2493-2496	5.2	22
79	Synthesis and Catalytic Hydrogenation Reactivity of a Chromium Catecholate Porous Organic Polymer. <i>Organometallics</i> , 2015 , 34, 947-952	3.8	22
78	Synthesis and characterization of Au-core Ag-shell nanoparticles from unmodified apoferritin. <i>Journal of Materials Chemistry</i> , 2012 , 22, 14458		22
77	Tetrahedral Nickel(II) Phosphosilicate Single-Site Selective Propane Dehydrogenation Catalyst. <i>ChemCatChem</i> , 2018 , 10, 961-964	5.2	21
76	Speciation of CuCl and CuCl Thiol-Amine Solutions and Characterization of Resulting Films: Implications for Semiconductor Device Fabrication. <i>Inorganic Chemistry</i> , 2017 , 56, 14396-14407	5.1	20
75	Supported Aluminum Catalysts for Olefin Hydrogenation. <i>ACS Catalysis</i> , 2017 , 7, 689-694	13.1	19
74	Copper-catalyzed aerobic oxidative coupling: From ketone and diamine to pyrazine. <i>Science Advances</i> , 2015 , 1, e1500656	14.3	19
73	Rhodium Catechol Containing Porous Organic Polymers: Defined Catalysis for Single-Site and Supported Nanoparticulate Materials. <i>Organometallics</i> , 2014 , 33, 2517-2522	3.8	19
72	Photochemically active reduced graphene oxide with controllable oxidation level. <i>RSC Advances</i> , 2012 , 2, 11258	3.7	19
71	Structural Interconversion between Agglomerated Palladium Domains and Mononuclear Pd(II) Cations in Chabazite Zeolites. <i>Chemistry of Materials</i> , 2021 , 33, 1698-1713	9.6	19
70	Structure-kinetic relationship study of organozinc reagents. <i>Chemical Communications</i> , 2014 , 50, 8709-115.8	15.8	18
69	Composition Tuning of Ru-Based Phosphide for Enhanced Propane Selective Dehydrogenation. <i>ACS Catalysis</i> , 2020 , 10, 10243-10252	13.1	18
68	Improving gold catalysis of nitroarene reduction with surface Pd. <i>Catalysis Today</i> , 2016 , 264, 31-36	5.3	16
67	Colloidal Synthesis of Well-Defined Bimetallic Nanoparticles for Nonoxidative Alkane Dehydrogenation. <i>ACS Catalysis</i> , 2020 , 10, 9813-9823	13.1	16

66	Single Co-Atoms as Electrocatalysts for Efficient Hydrazine Oxidation Reaction. <i>Small</i> , 2021 , 17, e20064771		16
65	Influence of Tetrapropylammonium and Ethylenediamine Structure-Directing Agents on the Framework Al Distribution in BAEMFI Zeolites. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 11849-11860	3.9	15
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11	Improvement of Selectivity in Acetylene Hydrogenation with Comparable Activity over Ordered PdCu Catalysts Induced by Post-treatment. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 706-716	9.5	2
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