

Jeffrey T Miller

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Ethane dehydrogenation performance and high temperature stability of silica supported cobalt phosphide nanoparticles. <i>Catalysis Science and Technology</i> , 2022 , 12, 976-985	5.5	4
208	Catalyst design to direct high-octane gasoline fuel properties for improved engine efficiency. <i>Applied Catalysis B: Environmental</i> , 2022 , 301, 120801	21.8	2
207	MXene-Supported, Atomic-Layered Iridium Catalysts Created by Nanoparticle Re-Dispersion for Efficient Alkaline Hydrogen Evolution.. <i>Small</i> , 2022 , 18, e2105226	11	2
206	Dehydroaromatization Pathway of Propane on PtZn/SiO ₂ + ZSM-5 Bifunctional Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 394-409	8.3	0
205	Structural and Catalytic Properties of Isolated Pt ²⁺ Sites in Platinum Phosphide (PtP ₂). <i>ACS Catalysis</i> , 2021 , 11, 13496-13509	13.1	2
204	Engineering catalyst supports to stabilize PdOx two-dimensional rafts for water-tolerant methane oxidation. <i>Nature Catalysis</i> , 2021 , 4, 830-839	36.5	13
203	Direct methane activation by atomically thin platinum nanolayers on two-dimensional metal carbides. <i>Nature Catalysis</i> , 2021 , 4, 882-891	36.5	12
202	Revealing the Thermal Safety of Prussian Blue Cathode for Safer Nonaqueous Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2101764	21.8	6
201	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
200	Single Co-Atoms as Electrocatalysts for Efficient Hydrazine Oxidation Reaction. <i>Small</i> , 2021 , 17, e2006477	11	16
199	Carbon Nitride-Based Ruthenium Single Atom Photocatalyst for CO Reduction to Methanol. <i>Small</i> , 2021 , 17, e2006478	11	43
198	Olefin oligomerization by main group Ga and Zn single site catalysts on SiO. <i>Nature Communications</i> , 2021 , 12, 2322	17.4	11
197	Ni/CeO ₂ promoted Ru and Pt supported on FeCrAl gauze for cycling methane catalytic partial oxidation (POX). <i>Applied Catalysis B: Environmental</i> , 2021 , 286, 119849	21.8	9
196	Short contact time CH ₄ partial oxidation over Ni based catalyst at 1.5 MPa. <i>Chemical Engineering Journal</i> , 2021 , 414, 128831	14.7	3
195	Selective Butene Formation in Direct Ethanol-to-C ₃ + Olefin Valorization over ZnO/Beta and Single-Atom Alloy Composite Catalysts Using In Situ-Generated Hydrogen. <i>ACS Catalysis</i> , 2021 , 11, 7193-7209	13.1	5
194	Isolated Metal Sites in CuZnO/Beta for Direct and Selective Butene-Rich C ₃ + Olefin Formation from Ethanol. <i>ACS Catalysis</i> , 2021 , 11, 9885-9897	13.1	4
193	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

192	Identification of a Selectivity Descriptor for Propane Dehydrogenation through Density Functional and Microkinetic Analysis on Pure Pd and Pd Alloys. <i>ACS Catalysis</i> , 2021 , 11, 9588-9604	13.1	4
191	Propane Dehydrogenation on Single-Site [PtZn ₄] Intermetallic Catalysts. <i>Chem</i> , 2021 , 7, 387-405	16.2	40
190	Strong metal-support interaction (SMSI) of Pt/CeO ₂ and its effect on propane dehydrogenation. <i>Catalysis Today</i> , 2021 , 371, 4-10	5.3	7
189	Atomically precise single-crystal structures of electrically conducting 2D metal-organic frameworks. <i>Nature Materials</i> , 2021 , 20, 222-228	27	104
188	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
187	Surface vs Homogeneous Organo-Hafnium Catalyst Ion-Pairing and Ligand Effects on Ethylene Homo- and Copolymerizations. <i>ACS Catalysis</i> , 2021 , 11, 3239-3250	13.1	5
186	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
185	Elucidating the Structure of Bimetallic NiW/SiO ₂ Catalysts and Its Consequences on Selective Deoxygenation of m-Cresol to Toluene. <i>ACS Catalysis</i> , 2021 , 11, 2935-2948	13.1	6
184	Onset of High Methane Combustion Rates over Supported Palladium Catalysts: From Isolated Pd Cations to PdO Nanoparticles. <i>Jacs Au</i> , 2021 , 1, 396-408		7
183	Structural and Chemical Transformations of Zinc Oxide Ultrathin Films on Pd(111) Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 35113-35123	9.5	1
182	Reactivity of (bi-Oxazoline)organonickel Complexes and Revision of a Catalytic Mechanism. <i>Journal of the American Chemical Society</i> , 2021 , 143, 14458-14463	16.4	7
181	Promoting propane dehydrogenation with CO ₂ over Ga ₂ O ₃ /SiO ₂ by eliminating Ga-hydrides. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 2225-2233	11.3	5
180	Surface Hexagonal PtSn Intermetallic on Pt Nanoparticles for Selective Propane Dehydrogenation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 25903-25909	9.5	23
179	Structural trends in the dehydrogenation selectivity of palladium alloys. <i>Chemical Science</i> , 2020 , 11, 5066-5081	9.4	18
178	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
177	Continuous Electrical Conductivity Variation in M(Hexaiminotriphenylene) (M = Co, Ni, Cu) MOF Alloys. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12367-12373	16.4	75
176	Combining Kinetics and Spectroscopy to Interrogate the Mechanism and Active Site Requirements of NO Selective Catalytic Reduction with NH ₃ on Cu-Zeolites. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5029-5036	6.4	11
175	Experimental and Computational Investigation of the Role of P in Moderating Ethane Dehydrogenation Performance over Ni-Based Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 12666-12676	3.9	7

174	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
173	Gas-Phase Ethylene Polymerization by Single-Site Cr Centers in a Metal-Organic Framework. <i>ACS Catalysis</i> , 2020 , 10, 3864-3870	13.1	8
172	Interface-mediated noble metal deposition on transition metal dichalcogenide nanostructures. <i>Nature Chemistry</i> , 2020 , 12, 284-293	17.6	42
171	Analyzing and Tuning the Chalcogen-Amine-Thiol Complexes for Tailoring of Chalcogenide Syntheses. <i>Inorganic Chemistry</i> , 2020 , 59, 8240-8250	5.1	6
170	Origin of Electronic Modification of Platinum in a Pt ₃ V Alloy and Its Consequences for Propane Dehydrogenation Catalysis. <i>ACS Applied Energy Materials</i> , 2020 , 3, 1410-1422	6.1	23
169	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
168	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
167	Rapid Electrochemical Methane Functionalization Involves Pd-Pd Bonded Intermediates. <i>Journal of the American Chemical Society</i> , 2020 , 142, 20631-20639	16.4	10
166	Effect of cobalt addition on platinum supported on multi-walled carbon nanotubes for water-gas shift. <i>Journal of Catalysis</i> , 2020 , 391, 25-34	7.3	1
165	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
164	Colloidal Synthesis of Well-Defined Bimetallic Nanoparticles for Nonoxidative Alkane Dehydrogenation. <i>ACS Catalysis</i> , 2020 , 10, 9813-9823	13.1	16
163	The effect of strong metal-support interaction (SMSI) on Pt ₃ Ir/SiO ₂ and Pt ₃ Nb/SiO ₂ catalysts for propane dehydrogenation. <i>Catalysis Science and Technology</i> , 2020 , 10, 5973-5982	5.5	9
162	Composition Tuning of Ru-Based Phosphide for Enhanced Propane Selective Dehydrogenation. <i>ACS Catalysis</i> , 2020 , 10, 10243-10252	13.1	18
161	Experimental and DFT Investigation into Chloride Poisoning Effects on Nitrogen-Coordinated Iron-Carbon (Fe ₃ C) Catalysts for Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 10324-10335	3.8	10
160	Distinct electronic structures and bonding interactions in inverse-sandwich samarium and ytterbium biphenyl complexes. <i>Chemical Science</i> , 2020 , 12, 227-238	9.4	6
159	Ensemble Effect in Bimetallic Electrocatalysts for CO Reduction. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16635-16642	16.4	122
158	Identification of the structure of the Bi promoted Pt non-oxidative coupling of methane catalyst: a nanoscale Pt ₃ Bi intermetallic alloy. <i>Catalysis Science and Technology</i> , 2019 , 9, 1349-1356	5.5	22
157	Identification of Surface Structures in Pt ₃ Cr Intermetallic Nanocatalysts. <i>Chemistry of Materials</i> , 2019 , 31, 1597-1609	9.6	29

156	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	16.4	23
155	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
154	Influence of Tetrapropylammonium and Ethylenediamine Structure-Directing Agents on the Framework Al Distribution in BAU/MFI Zeolites. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 11849-11860	3.9	15
153	Diffusion-Limited Formation of Nonequilibrium Intermetallic Nanophase for Selective Dehydrogenation. <i>Nano Letters</i> , 2019 , 19, 4380-4383	11.5	7
152	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
151	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
150	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
149	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
148	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	13.8	24
147	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
146	Investigating Chemistry of Metal Dissolution in Amine/Thiol Mixtures and Exploiting It toward Benign Ink Formulation for Metal Chalcogenide Thin Films. <i>Chemistry of Materials</i> , 2019 , 31, 5674-5682	9.6	15
145	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
144	Inverse Bimetallic RuSn Catalyst for Selective Carboxylic Acid Reduction. <i>ACS Catalysis</i> , 2019 , 9, 11350-11359	13.5	6
143	Spectroscopic and kinetic responses of Cu-SSZ-13 to SO ₂ exposure and implications for NO _x selective catalytic reduction. <i>Applied Catalysis A: General</i> , 2019 , 574, 122-131	5.1	33
142	Aqueous-Phase Hydrodechlorination of Trichloroethylene over Pd-Based Swellable Organically Modified Silica: Catalyst Deactivation Due to Sulfur Species. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 4054-4064	3.9	12
141	A molecular cross-linking approach for hybrid metal oxides. <i>Nature Materials</i> , 2018 , 17, 341-348	27	66
140	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
139	Ammonia Titration Methods To Quantify Brønsted Acid Sites in Zeolites Substituted with Aluminum and Boron Heteroatoms. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 6673-6683	3.9	8

138	Nanoceria-Supported Single-Atom Platinum Catalysts for Direct Methane Conversion. <i>ACS Catalysis</i> , 2018 , 8, 4044-4048	13.1	135
137	Structure and reactivity of PtIn intermetallic alloy nanoparticles: Highly selective catalysts for ethane dehydrogenation. <i>Catalysis Today</i> , 2018 , 299, 146-153	5.3	83
136	Structure Determination of a Surface Tetragonal Pt1Sb1 Phase on Pt Nanoparticles. <i>Chemistry of Materials</i> , 2018 , 30, 4503-4507	9.6	14
135	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
134	Swellable Organically Modified Silica (SOMS) as a Catalyst Scaffold for Catalytic Treatment of Water Contaminated with Trichloroethylene. <i>ACS Catalysis</i> , 2018 , 8, 6796-6809	13.1	14
133	Tetrahedral Nickel(II) Phosphosilicate Single-Site Selective Propane Dehydrogenation Catalyst. <i>ChemCatChem</i> , 2018 , 10, 961-964	5.2	21
132	High-Performance Transition Metal Phosphide Alloy Catalyst for Oxygen Evolution Reaction. <i>ACS Nano</i> , 2018 , 12, 158-167	16.7	231
131	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
130	Insights into Nitrate Reduction over Indium-Decorated Palladium Nanoparticle Catalysts. <i>ACS Catalysis</i> , 2018 , 8, 503-515	13.1	102
129	In Situ S/TEM Reduction Reaction of Ni-Mo ₂ C Catalyst for Biomass Conversion. <i>Microscopy and Microanalysis</i> , 2018 , 24, 322-323	0.5	1
128	Two-dimensional transition metal carbides as supports for tuning the chemistry of catalytic nanoparticles. <i>Nature Communications</i> , 2018 , 9, 5258	17.4	117
127	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
126	Valorization of Shale Gas Condensate to Liquid Hydrocarbons through Catalytic Dehydrogenation and Oligomerization. <i>Processes</i> , 2018 , 6, 139	2.9	31
125	Deconvolution of octahedral PtNi nanoparticle growth pathway from in situ characterizations. <i>Nature Communications</i> , 2018 , 9, 4485	17.4	25
124	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
123	A Structural Mimic of Carbonic Anhydrase in a Metal-Organic Framework. <i>Chem</i> , 2018 , 4, 2894-2901	16.2	53
122	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
121	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

120	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
119	Mechanism of Me-Re Bond Addition to Platinum(II) and Dioxygen Activation by the Resulting Pt-Re Bimetallic Center. <i>Inorganic Chemistry</i> , 2017 , 56, 2145-2152	5.1	9
118	BSMV as a Biotemplate for Palladium Nanomaterial Synthesis. <i>Langmuir</i> , 2017 , 33, 1716-1724	4	8
117	Exploring Low-Temperature Dehydrogenation at Ionic Cu Sites in Beta Zeolite To Enable Alkane Recycle in Dimethyl Ether Homologation. <i>ACS Catalysis</i> , 2017 , 7, 3662-3667	13.1	9
116	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
115	Selective Dimerization of Propylene with Ni-MFU-4l. <i>Organometallics</i> , 2017 , 36, 1681-1683	3.8	45
114	Effect of Cu content on the bimetallic PtCu catalysts for propane dehydrogenation 2017 , 3, 43-53		28
113	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
112	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
111	Structural and kinetic changes to small-pore Cu-zeolites after hydrothermal aging treatments and selective catalytic reduction of NO _x with ammonia. <i>Reaction Chemistry and Engineering</i> , 2017 , 2, 168-179	4.9	36
110	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
109	Supported Aluminum Catalysts for Olefin Hydrogenation. <i>ACS Catalysis</i> , 2017 , 7, 689-694	13.1	19
108	Bond breakage under pressure in a metal organic framework. <i>Chemical Science</i> , 2017 , 8, 8004-8011	9.4	52
107	Silica-Supported, Single-Site Sc and Y Alkyls for Catalytic Hydrogenation of Propylene. <i>Organometallics</i> , 2017 , 36, 3677-3685	3.8	13
106	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
105	Dynamic multinuclear sites formed by mobilized copper ions in NO selective catalytic reduction. <i>Science</i> , 2017 , 357, 898-903	33.3	45 ⁸
104	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
103	Decoupling and elucidation of surface-driven processes during inorganic mineralization on virus templates. <i>Journal of Colloid and Interface Science</i> , 2016 , 483, 165-176	9.3	10

102	PdIn intermetallic alloy nanoparticles: highly selective ethane dehydrogenation catalysts. <i>Catalysis Science and Technology</i> , 2016 , 6, 6965-6976	5.5	85
101	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
100	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
99	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
98	Graphite-Conjugated Rhenium Catalysts for Carbon Dioxide Reduction. <i>Journal of the American Chemical Society</i> , 2016 , 138, 1820-3	16.4	127
97	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
96	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
95	Improving gold catalysis of nitroarene reduction with surface Pd. <i>Catalysis Today</i> , 2016 , 264, 31-36	5.3	16
94	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
93	Gold-doping of carbon-supported palladium improves reduction catalysis. <i>Chinese Journal of Catalysis</i> , 2016 , 37, 1776-1786	11.3	1
92	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
91	Lithium Assisted Dissolution-Alloying Synthesis of Nanoalloys from Individual Bulk Metals. <i>Chemistry of Materials</i> , 2016 , 28, 2267-2277	9.6	9
90	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
89	Design and synthesis of model and practical palladium catalysts using atomic layer deposition. <i>Catalysis Science and Technology</i> , 2016 , 6, 6845-6852	5.5	8
88	Aromatic C-H bond cleavage by using a Cu(I) ate-complex. <i>Organic Chemistry Frontiers</i> , 2016 , 3, 975-978	5.2	4
87	A multicentre-bonded [Zn(II)] ₈ cluster with cubic aromaticity. <i>Nature Communications</i> , 2015 , 6, 6331	17.4	73
86	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
85	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

84	Single-Atom Alloy PdAg Catalyst for Selective Hydrogenation of Acrolein. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 18140-18148	3.8	111
83	Copper-/Cobalt-Catalyzed Highly Selective Radical Dioxygenation of Alkenes. <i>Organic Letters</i> , 2015 , 17, 3402-5	6.2	41
82	Isolated FeII on Silica As a Selective Propane Dehydrogenation Catalyst. <i>ACS Catalysis</i> , 2015 , 5, 3494-3503	3.1	108
81	Mechanistic study of the hydrothermal reduction of palladium on the Tobacco mosaic virus. <i>Journal of Colloid and Interface Science</i> , 2015 , 450, 1-6	9.3	5
80	EXAFS Characterization of Palladium-on-Gold Catalysts Before and After Glycerol Oxidation. <i>Topics in Catalysis</i> , 2015 , 58, 302-313	2.3	14
79	The Dynamic Nature of Brønsted Acid Sites in CuZeolites During NOx Selective Catalytic Reduction: Quantification by Gas-Phase Ammonia Titration. <i>Topics in Catalysis</i> , 2015 , 58, 424-434	2.3	63
78	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
77	Air- and water-resistant noble metal coated ferromagnetic cobalt nanorods. <i>ACS Nano</i> , 2015 , 9, 2792-804	6.7	25
76	Benzene selectivity in competitive arene hydrogenation: effects of single-site catalyst and acidic oxide surface binding geometry. <i>Journal of the American Chemical Society</i> , 2015 , 137, 6770-80	16.4	59
75	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
74	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
73	Water-gas shift catalysis over transition metals supported on molybdenum carbide. <i>Journal of Catalysis</i> , 2015 , 331, 162-171	7.3	54
72	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
71	Gas-Phase Dimerization of Ethylene under Mild Conditions Catalyzed by MOF Materials Containing (bpy)NiII Complexes. <i>ACS Catalysis</i> , 2015 , 5, 6713-6718	13.1	109
70	Copper-catalyzed aerobic oxidative coupling: From ketone and diamine to pyrazine. <i>Science Advances</i> , 2015 , 1, e1500656	14.3	19
69	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
68	Selective propane dehydrogenation with single-site CoII on SiO2 by a non-redox mechanism. <i>Journal of Catalysis</i> , 2015 , 322, 24-37	7.3	138
67	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

66	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
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