

Justin M Notestein

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.

105
papers

2,403
citations

27
h-index

44
g-index

116
ext. papers

2,921
ext. citations

9.6
avg, IF

5.59
L-index

#	Paper	IF	Citations
105	Investigating the effect of metal nuclearity on activity for ethylene hydrogenation by metal-organic-framework-supported oxy-Ni(II) catalysts. <i>Journal of Catalysis</i> , 2022 , 407, 162-162	7.3	1
104	Realizing the data-driven, computational discovery of metal-organic framework catalysts. <i>Current Opinion in Chemical Engineering</i> , 2022 , 35, 100760	5.4	2
103	MOF-enabled confinement and related effects for chemical catalyst presentation and utilization.. <i>Chemical Society Reviews</i> , 2022 ,	58.5	22
102	Exploring mechanistic routes for light alkane oxidation with an iron-triazolate metal-organic framework.. <i>Physical Chemistry Chemical Physics</i> , 2022 ,	3.6	1
101	Modulating Chemical Environments of Metal-Organic Framework-Supported Molybdenum(VI) Catalysts for Insights into the Structure-Activity Relationship in Cyclohexene Epoxidation.. <i>Journal of the American Chemical Society</i> , 2022 , 144, 3554-3563	16.4	3
100	Improving and stabilizing fluorinated aryl borane catalysts for epoxide ring-opening. <i>Applied Catalysis A: General</i> , 2022 , 636, 118601	5.1	0
99	Orientation of 1,1'-Bi-2-naphthol Grafted onto TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2022 , 126, 7980-7990		
98	Tandem InO-Pt/AlO catalyst for coupling of propane dehydrogenation to selective H combustion. <i>Science</i> , 2021 , 371, 1257-1260	33.3	50
97	Catalytic dehydrogenation of isobutane over supported MoO _x /K-Al ₂ O ₃ . <i>Journal of Catalysis</i> , 2021 , 397, 212-222	7.3	5
96	Machine learning the quantum-chemical properties of metal-organic frameworks for accelerated materials discovery. <i>Matter</i> , 2021 , 4, 1578-1597	12.7	43
95	Identifying Boron Active Sites for the Oxidative Dehydrogenation of Propane. <i>ACS Catalysis</i> , 2021 , 11, 9370-9376	13.1	9
94	Creating Brønsted acidity at the SiO ₂ -Nb ₂ O ₅ interface. <i>Journal of Catalysis</i> , 2021 , 394, 387-396	7.3	3
93	Vapor-Phase Cyclohexene Epoxidation by Single-Ion Fe(III) Sites in Metal-Organic Frameworks. <i>Inorganic Chemistry</i> , 2021 , 60, 2457-2463	5.1	6
92	Submonolayer Is Enough: Switching Reaction Channels on Pt/SiO ₂ by Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 18725-18733	3.8	
91	Identifying Support Effects in Au-Catalyzed CO Oxidation. <i>ACS Catalysis</i> , 2021 , 11, 11921-11928	13.1	1
90	Heterometallic Ce/V Oxo Clusters with Adjustable Catalytic Reactivities. <i>Journal of the American Chemical Society</i> , 2021 ,	16.4	0
89	Cyclohexene epoxidation with H ₂ O ₂ in the vapor and liquid phases over a vanadium-based metal-organic framework. <i>Catalysis Science and Technology</i> , 2020 , 10, 4580-4585	5.5	9

88	Comparing GGA, GGA+U, and meta-GGA functionals for redox-dependent binding at open metal sites in metal-organic frameworks. <i>Journal of Chemical Physics</i> , 2020 , 152, 224101	3.9	8
87	High-Valent Metal-Oxo Species at the Nodes of Metal-Triazolate Frameworks: The Effects of Ligand Exchange and Two-State Reactivity for C-H Bond Activation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19494-19502	16.4	8
86	High-Valent Metal-Oxo Species at the Nodes of Metal-Triazolate Frameworks: The Effects of Ligand Exchange and Two-State Reactivity for C-H Bond Activation. <i>Angewandte Chemie</i> , 2020 , 132, 19662-19670	3.6	6
85	Mapping the thermal entrenchment behavior of Pd nanoparticles on planar SiO supports. <i>Nanoscale</i> , 2020 , 12, 14245-14258	7.7	
84	Tuning the Redox Activity of Metal-Organic Frameworks for Enhanced, Selective O Binding: Design Rules and Ambient Temperature O Chemisorption in a Cobalt-Triazolate Framework. <i>Journal of the American Chemical Society</i> , 2020 , 142, 4317-4328	16.4	36
83	Demonstrating the Critical Role of Solvation in Supported Ti and Nb Epoxidation Catalysts via Vapor-Phase Kinetics. <i>ACS Catalysis</i> , 2020 , 10, 2817-2825	13.1	8
82	Isobutane Dehydrogenation over Bulk and Supported Molybdenum Sulfide Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 1113-1122	3.9	11
81	Computational Predictions and Experimental Validation of Alkane Oxidative Dehydrogenation by Fe ₂ M MOF Nodes. <i>ACS Catalysis</i> , 2020 , 10, 1460-1469	13.1	27
80	The Synthesis Science of Targeted Vapor-Phase Metal-Organic Framework Postmodification. <i>Journal of the American Chemical Society</i> , 2020 , 142, 242-250	16.4	24
79	Identifying properties of low-loaded CoOX/CeO ₂ via X-ray absorption spectroscopy for NO reduction by CO. <i>Journal of Catalysis</i> , 2020 , 381, 355-362	7.3	5
78	Controlled Deposition of Silica on Titania-Silica to Alter the Active Site Surroundings on Epoxidation Catalysts. <i>ACS Catalysis</i> , 2020 , 10, 13008-13018	13.1	4
77	Zr ₆ O ₈ Node-Catalyzed Butene Hydrogenation and Isomerization in the Metal-Organic Framework NU-1000. <i>ACS Catalysis</i> , 2020 , 10, 14959-14970	13.1	9
76	Supramolecular Porous Assemblies of Atomically Precise Catalytically Active Cerium-Based Clusters. <i>Chemistry of Materials</i> , 2020 , 32, 8522-8529	9.6	10
75	Promoter Effects on Catalyst Selectivity and Stability for Propylene Partial Oxidation to Acrolein. <i>Catalysis Letters</i> , 2020 , 150, 826-836	2.8	1
74	Enhancing the Regioselectivity of B(C ₆ F ₅) ₃ -Catalyzed Epoxide Alcoholysis Reactions Using Hydrogen-Bond Acceptors. <i>ACS Catalysis</i> , 2019 , 9, 9663-9670	13.1	11
73	Role of surface reconstruction on Cu/TiO ₂ nanotubes for CO ₂ conversion. <i>Applied Catalysis B: Environmental</i> , 2019 , 255, 117754	21.8	14
72	Structure-Activity Relationships That Identify Metal-Organic Framework Catalysts for Methane Activation. <i>ACS Catalysis</i> , 2019 , 9, 3576-3587	13.1	63
71	A tri-layer approach to controlling nanopore formation in oxide supports. <i>Nano Research</i> , 2019 , 12, 1223-1228	11.1	1

70	Fast Cyclohexane Oxidation Under Mild Reaction Conditions Through a Controlled Creation of Redox-Active Fe(II/III) Sites in a Metal-Organic Framework. <i>ChemCatChem</i> , 2019 , 11, 5650-5656	5.2	15
69	Strong Influence of the Nucleophile on the Rate and Selectivity of 1,2-Epoxyoctane Ring Opening Catalyzed by Tris(pentafluorophenyl)borane, B(C ₆ F ₅) ₃ . <i>ACS Catalysis</i> , 2019 , 9, 11589-11602	13.1	8
68	Direct Visualization of Independent Ta Centers Supported on Two-Dimensional TiO Nanosheets. <i>Nano Letters</i> , 2019 , 19, 8103-8108	11.5	7
67	Strong electrostatic adsorption of Pt onto SiO partially overcoated AlO-Towards single atom catalysts. <i>Journal of Chemical Physics</i> , 2019 , 151, 214703	3.9	9
66	Identifying promising metal-organic frameworks for heterogeneous catalysis via high-throughput periodic density functional theory. <i>Journal of Computational Chemistry</i> , 2019 , 40, 1305-1318	3.5	51
65	Photo-Initiated Reduction of CO ₂ by H ₂ on Silica Surface. <i>ChemSusChem</i> , 2018 , 11, 1135-1135	8.3	
64	Consequences of Confinement for Alkene Epoxidation with Hydrogen Peroxide on Highly Dispersed Group 4 and 5 Metal Oxide Catalysts. <i>ACS Catalysis</i> , 2018 , 8, 2995-3010	13.1	72
63	Photo-Initiated Reduction of CO by H on Silica Surface. <i>ChemSusChem</i> , 2018 , 11, 1163-1168	8.3	2
62	Hybrid Approach for Selective Sulfoxidation via Bioelectrochemically Derived Hydrogen Peroxide over a Niobium(V)Silica Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 7880-7889	8.3	6
61	In-situ IR spectroscopy as a probe of oxidation/reduction of Ce in nanostructured CeO ₂ . <i>Applied Surface Science</i> , 2018 , 445, 548-554	6.7	6
60	Gas phase acceptorless dehydrogenative coupling of ethanol over bulk MoS ₂ and spectroscopic measurement of structural disorder. <i>Journal of Catalysis</i> , 2018 , 366, 159-166	7.3	5
59	The effect of support morphology on CoOX/CeO ₂ catalysts for the reduction of NO by CO. <i>Journal of Catalysis</i> , 2018 , 366, 150-158	7.3	23
58	Comprehensive Phase Diagrams of MoS ₂ Edge Sites Using Dispersion-Corrected DFT Free Energy Calculations. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 15318-15329	3.8	15
57	Pushing the Limits on Metal-Organic Frameworks as a Catalyst Support: NU-1000 Supported Tungsten Catalysts for o-Xylene Isomerization and Disproportionation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8535-8543	16.4	56
56	Synthesis and stabilization of small Pt nanoparticles on TiO ₂ partially masked by SiO ₂ . <i>Applied Catalysis A: General</i> , 2018 , 551, 122-128	5.1	15
55	Mechanism of Regioselective Ring-Opening Reactions of 1,2-Epoxyoctane Catalyzed by Tris(pentafluorophenyl)borane: A Combined Experimental, Density Functional Theory, and Microkinetic Study. <i>ACS Catalysis</i> , 2018 , 8, 11119-11133	13.1	17
54	Evidence for Copper Dimers in Low-Loaded CuOx/SiO ₂ Catalysts for Cyclohexane Oxidative Dehydrogenation. <i>ACS Catalysis</i> , 2018 , 8, 9775-9789	13.1	8
53	Role of Support Lewis Acid Strength in Copper-Oxide-Catalyzed Oxidative Dehydrogenation of Cyclohexane. <i>ACS Catalysis</i> , 2018 , 8, 7598-7607	13.1	17

52	Acceptorless Dehydrogenative Coupling of Neat Alcohols Using Group VI Sulfide Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 4890-4896	8.3	10
51	Predicting NO Catalysis by Quantifying Ce from Surface and Lattice Oxygen. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 30670-30678	9.5	13
50	Ni(II) complex on a bispyridine-based porous organic polymer as a heterogeneous catalyst for ethylene oligomerization. <i>Catalysis Science and Technology</i> , 2017 , 7, 4351-4354	5.5	14
49	Rate and Selectivity Control in Thioether and Alkene Oxidation with H ₂ O ₂ over Phosphonate-Modified Niobium(V) Silica Catalysts. <i>ChemCatChem</i> , 2017 , 9, 3714-3724	5.2	22
48	Multifunctional photo/thermal catalysts for the reduction of carbon dioxide. <i>Catalysis Today</i> , 2017 , 280, 65-73	5.3	18
47	Stable Metal-Organic Framework-Supported Niobium Catalysts. <i>Inorganic Chemistry</i> , 2016 , 55, 11954-11961	9.6	76
46	C-N bond hydrogenolysis of aniline and cyclohexylamine over TaOx/Al ₂ O ₃ . <i>New Journal of Chemistry</i> , 2016 , 40, 6001-6004	3.6	4
45	Understanding the Hydrodenitrogenation of Heteroaromatics on a Molecular Level. <i>ACS Catalysis</i> , 2016 , 6, 1455-1476	13.1	20
44	Silica support modifications to enhance Pd-catalyzed deoxygenation of stearic acid. <i>Applied Catalysis B: Environmental</i> , 2016 , 192, 93-100	21.8	25
43	Synthesis of a family of peracid-silica materials and their use as alkene epoxidation reagents. <i>Microporous and Mesoporous Materials</i> , 2016 , 225, 289-295	5.3	5
42	Catalyst structure and substituent effects on epoxidation of styrenics with immobilized Mn(tmtacn) complexes. <i>Applied Catalysis A: General</i> , 2016 , 511, 78-86	5.1	17
41	Vapor phase ethanol carbonylation over Rh supported on zeolite 13X. <i>Applied Catalysis A: General</i> , 2016 , 520, 122-131	5.1	8
40	Increased productivity in ethylene carbonylation by zeolite-supported molybdenum carbonyls. <i>Journal of Catalysis</i> , 2016 , 338, 313-320	7.3	11
39	In situ FTIR spectroscopy of highly dispersed FeOx catalysts for NO reduction: Role of Na promoter. <i>Catalysis Today</i> , 2016 , 267, 56-64	5.3	6
38	Cyclohexane oxidative dehydrogenation over copper oxide catalysts. <i>Journal of Catalysis</i> , 2016 , 341, 180-190	7.3	19
37	MOFs and their grafted analogues: regioselective epoxide ring-opening with Zr ₆ nodes. <i>Catalysis Science and Technology</i> , 2016 , 6, 6480-6484	5.5	22
36	Depositing SiO ₂ on Al ₂ O ₃ : a Route to Tunable Brønsted Acid Catalysts. <i>ACS Catalysis</i> , 2016 , 6, 6156-6164	13.1	36
35	Synthesis-Structure-Function Relationships of Silica-Supported Niobium(V) Catalysts for Alkene Epoxidation with H ₂ O ₂ . <i>ACS Catalysis</i> , 2016 , 6, 6124-6134	13.1	60

34	Periodic Trends in Highly Dispersed Groups IV and V Supported Metal Oxide Catalysts for Alkene Epoxidation with H ₂ O ₂ . <i>ACS Catalysis</i> , 2015 , 5, 5077-5088	13.1	95
33	Vapor-phase ethanol carbonylation with heteropolyacid-supported Rh. <i>Journal of Catalysis</i> , 2015 , 325, 1-8	7.3	12
32	Catalytic reduction of NO with H ₂ over redox-cycling Fe on CeO ₂ . <i>Applied Catalysis B: Environmental</i> , 2015 , 168-169, 68-76	21.8	19
31	In Situ Characterization of Highly Dispersed, Ceria-Supported Fe Sites for NO Reduction by CO. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 4224-4234	3.8	22
30	Size-Selective Synthesis and Stabilization of Small Silver Nanoparticles on TiO ₂ Partially Masked by SiO ₂ . <i>Chemistry of Materials</i> , 2015 , 27, 1269-1277	9.6	29
29	Recovery of dilute aqueous acetone, butanol, and ethanol with immobilized calixarene cavities. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 289-97	9.5	15
28	Quantifying accessible sites and reactivity on titania/silica (photo)catalysts: Refining TOF calculations. <i>Journal of Catalysis</i> , 2014 , 309, 156-165	7.3	24
27	The role of iodide promoters and the mechanism of ethylene carbonylation catalyzed by molybdenum hexacarbonyl. <i>Journal of Catalysis</i> , 2014 , 319, 211-219	7.3	7
26	Increasing the Aromatic Selectivity of Quinoline Hydrogenolysis Using Pd/MOx/Al ₂ O ₃ . <i>Catalysis Letters</i> , 2014 , 144, 1832-1838	2.8	9
25	Counting Active Sites on Titanium Oxide/Silica Catalysts for Hydrogen Peroxide Activation through In Situ Poisoning with Phenylphosphonic Acid. <i>ChemCatChem</i> , 2014 , 6, 3215-3222	5.2	20
24	Microkinetic modeling of cis-cyclooctene oxidation on heterogeneous Mn/Tacn complexes. <i>Journal of Catalysis</i> , 2012 , 291, 17-25	7.3	10
23	R. Bbesta (ed.): Enantioselective Homogeneous Supported Catalysis. <i>Catalysis Letters</i> , 2012 , 142, 1150-1158	7.3	11
22	Structural and electronic promotion with alkali cations of silica-supported Fe(III) sites for alkane oxidation. <i>Journal of Catalysis</i> , 2012 , 296, 77-85	7.3	17
21	Shape-selective sieving layers on an oxide catalyst surface. <i>Nature Chemistry</i> , 2012 , 4, 1030-6	17.6	105
20	Manganese triazacyclononane oxidation catalysts grafted under reaction conditions on solid cocatalytic supports. <i>Journal of the American Chemical Society</i> , 2011 , 133, 18684-95	16.4	40
19	Solid Cocatalysts for Activating Manganese Triazacyclononane Oxidation Catalysts. <i>ACS Catalysis</i> , 2011 , 1, 1691-1701	13.1	16
18	Adsorption of n-butanol from dilute aqueous solution with grafted calixarenes. <i>Langmuir</i> , 2011 , 27, 11990-8	14.0	44
17	Surface speciation and alkane oxidation with highly dispersed Fe(III) sites on silica. <i>Journal of Catalysis</i> , 2011 , 279, 103-110	7.3	28

16	The role of amine surface density in carbon dioxide adsorption on functionalized mixed oxide surfaces. <i>ChemSusChem</i> , 2011 , 4, 1671-8	8.3	48
15	A heterogeneous, selective oxidation catalyst based on Mn triazacyclononane grafted under reaction conditions. <i>Chemical Communications</i> , 2010 , 46, 1640-2	5.8	27
14	Covalent Grafting of m-Phenylene-Ethynylene Oligomers to Oxide Surfaces. <i>Chemistry of Materials</i> , 2010 , 22, 5319-5327	9.6	2
13	Grafted Ta-calixarenes: Tunable, selective catalysts for direct olefin epoxidation with aqueous hydrogen peroxide. <i>Journal of Catalysis</i> , 2010 , 275, 191-201	7.3	38
12	Kinetic study of cyclooctene epoxidation with aqueous hydrogen peroxide over silica-supported calixarene-Ta(V). <i>Applied Catalysis A: General</i> , 2010 , 387, 45-54	5.1	24
11	Graftable chiral ligands for surface organometallic materials: calixarenes bearing asymmetric centers directly attached to the lower rim. <i>New Journal of Chemistry</i> , 2008 , 32, 1314	3.6	8
10	Structural assessment and catalytic consequences of the oxygen coordination environment in grafted Ti-calixarenes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 1122-31	16.4	60
9	The role of outer-sphere surface acidity in alkene epoxidation catalyzed by calixarene-Ti(IV) complexes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15585-95	16.4	56
8	Photoluminescence and Charge-Transfer Complexes of Calixarenes Grafted on TiO ₂ Nanoparticles. <i>Chemistry of Materials</i> , 2007 , 19, 4998-5005	9.6	62
7	Enhancing heterogeneous catalysis through cooperative hybrid organic-inorganic interfaces. <i>Chemistry - A European Journal</i> , 2006 , 12, 3954-65	4.8	217
6	Energetics of small molecule and water complexation in hydrophobic calixarene cavities. <i>Langmuir</i> , 2006 , 22, 4004-14	4	31
5	Grafted metallocalixarenes as single-site surface organometallic catalysts. <i>Journal of the American Chemical Society</i> , 2004 , 126, 16478-86	16.4	85
4	Well-Defined Diblock Copolymers via Termination of Living ROMP with Anionically Polymerized Macromolecular Aldehydes. <i>Macromolecules</i> , 2002 , 35, 1985-1987	5.5	32
3	The First Single-Step Immobilization of a Calix-[4]-arene onto the Surface of Silica. <i>Chemistry of Materials</i> , 2002 , 14, 3364-3368	9.6	72
2	A Unique Qualitative GC Experiment for an Undergraduate Instrumental Methods Course Using Selective Photoionization Detectors. <i>Journal of Chemical Education</i> , 1998 , 75, 360	2.4	
1	Machine Learning the Quantum-Chemical Properties of Metal-Organic Frameworks for Accelerated Materials Discovery with a New Electronic Structure Database		3