Justin M Notestein

List of Publications by Citations

105	2,403	27	44
papers	citations	h-index	g-index
116	2,921	9.6	5.59
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
105	Enhancing heterogeneous catalysis through cooperative hybrid organic-inorganic interfaces. *Chemistry - A European Journal*, **2006**, 12, 3954-65	4.8	217
104	Shape-selective sieving layers on an oxide catalyst surface. *Nature Chemistry*, **2012**, 4, 1030-6	17.6	105
103	Periodic Trends in Highly Dispersed Groups IV and V Supported Metal Oxide Catalysts for Alkene Epoxidation with H2O2. *ACS Catalysis*, **2015**, 5, 5077-5088	13.1	95
102	Grafted metallocalixarenes as single-site surface organometallic catalysts. *Journal of the American Chemical Society*, **2004**, 126, 16478-86	16.4	85
101	Stable Metal-Organic Framework-Supported Niobium Catalysts. *Inorganic Chemistry*, **2016**, 55, 11954-11961	4.1	76
100	Consequences of Confinement for Alkene Epoxidation with Hydrogen Peroxide on Highly Dispersed Group 4 and 5 Metal Oxide Catalysts. *ACS Catalysis*, **2018**, 8, 2995-3010	13.1	72
99	The First Single-Step Immobilization of a Calix-[4]-arene onto the Surface of Silica. *Chemistry of Materials*, **2002**, 14, 3364-3368	9.6	72
98	Structure–Activity Relationships That Identify Metal–Organic Framework Catalysts for Methane Activation. *ACS Catalysis*, **2019**, 9, 3576-3587	13.1	63
97	Photoluminescence and Charge-Transfer Complexes of Calixarenes Grafted on TiO2 Nanoparticles. *Chemistry of Materials*, **2007**, 19, 4998-5005	9.6	62
96	Structural assessment and catalytic consequences of the oxygen coordination environment in grafted Ti-calixarenes. *Journal of the American Chemical Society*, **2007**, 129, 1122-31	16.4	60
95	Synthesis–Structure–Function Relationships of Silica-Supported Niobium(V) Catalysts for Alkene Epoxidation with H2O2. *ACS Catalysis*, **2016**, 6, 6124-6134	13.1	60
94	Pushing the Limits on Metal-Organic Frameworks as a Catalyst Support: NU-1000 Supported Tungsten Catalysts for o-Xylene Isomerization and Disproportionation. *Journal of the American Chemical Society*, **2018**, 140, 8535-8543	16.4	56
93	The role of outer-sphere surface acidity in alkene epoxidation catalyzed by calixarene-Ti(IV) complexes. *Journal of the American Chemical Society*, **2007**, 129, 15585-95	16.4	56
92	Identifying promising metal-organic frameworks for heterogeneous catalysis via high-throughput periodic density functional theory. *Journal of Computational Chemistry*, **2019**, 40, 1305-1318	3.5	51
91	Tandem InO-Pt/AlO catalyst for coupling of propane dehydrogenation to selective H combustion. *Science*, **2021**, 371, 1257-1260	33.3	50
90	The role of amine surface density in carbon dioxide adsorption on functionalized mixed oxide surfaces. *ChemSusChem*, **2011**, 4, 1671-8	8.3	48
89	Adsorption of n-butanol from dilute aqueous solution with grafted calixarenes. *Langmuir*, **2011**, 27, 11990-8	4.0	44

88	Machine learning the quantum-chemical properties of metal–organic frameworks for accelerated materials discovery. *Matter*, **2021**, 4, 1578-1597	12.7	43
87	Manganese triazacyclononane oxidation catalysts grafted under reaction conditions on solid cocatalytic supports. *Journal of the American Chemical Society*, **2011**, 133, 18684-95	16.4	40
86	Grafted Ta–calixarenes: Tunable, selective catalysts for direct olefin epoxidation with aqueous hydrogen peroxide. *Journal of Catalysis*, **2010**, 275, 191-201	7.3	38
85	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. *Journal of the American Chemical Society*, **2020**, 142, 4317-4328	16.4	36
84	Depositing SiO2 on Al2O3: a Route to Tunable Brønsted Acid Catalysts. *ACS Catalysis*, **2016**, 6, 6156-6164	13.1	36
83	Well-Defined Diblock Copolymers via Termination of Living ROMP with Anionically Polymerized Macromolecular Aldehydes. *Macromolecules*, **2002**, 35, 1985-1987	5.5	32
82	Energetics of small molecule and water complexation in hydrophobic calixarene cavities. *Langmuir*, **2006**, 22, 4004-14	4	31
81	Size-Selective Synthesis and Stabilization of Small Silver Nanoparticles on TiO2 Partially Masked by SiO2. *Chemistry of Materials*, **2015**, 27, 1269-1277	9.6	29
80	Surface speciation and alkane oxidation with highly dispersed Fe(III) sites on silica. *Journal of Catalysis*, **2011**, 279, 103-110	7.3	28
79	A heterogeneous, selective oxidation catalyst based on Mn triazacyclononane grafted under reaction conditions. *Chemical Communications*, **2010**, 46, 1640-2	5.8	27
78	Computational Predictions and Experimental Validation of Alkane Oxidative Dehydrogenation by Fe2M MOF Nodes. *ACS Catalysis*, **2020**, 10, 1460-1469	13.1	27
77	Silica support modifications to enhance Pd-catalyzed deoxygenation of stearic acid. *Applied Catalysis B: Environmental*, **2016**, 192, 93-100	21.8	25
76	Quantifying accessible sites and reactivity on titania–silica (photo)catalysts: Refining TOF calculations. *Journal of Catalysis*, **2014**, 309, 156-165	7.3	24
75	Kinetic study of cyclooctene epoxidation with aqueous hydrogen peroxide over silica-supported calixarene–Ta(V). *Applied Catalysis A: General*, **2010**, 387, 45-54	5.1	24
74	The Synthesis Science of Targeted Vapor-Phase Metal-Organic Framework Postmodification. *Journal of the American Chemical Society*, **2020**, 142, 242-250	16.4	24
73	The effect of support morphology on CoOX/CeO2 catalysts for the reduction of NO by CO. *Journal of Catalysis*, **2018**, 366, 150-158	7.3	23
72	Rate and Selectivity Control in Thioether and Alkene Oxidation with H2O2 over Phosphonate-Modified Niobium(V)–Silica Catalysts. *ChemCatChem*, **2017**, 9, 3714-3724	5.2	22
71	In Situ Characterization of Highly Dispersed, Ceria-Supported Fe Sites for NO Reduction by CO. *Journal of Physical Chemistry C*, **2015**, 119, 4224-4234	3.8	22

70	MOF-enabled confinement and related effects for chemical catalyst presentation and utilization.. *Chemical Society Reviews*, **2022**,	58.5	22
69	MOFs and their grafted analogues: regioselective epoxide ring-opening with Zr6 nodes. *Catalysis Science and Technology*, **2016**, 6, 6480-6484	5.5	22
68	Understanding the Hydrodenitrogenation of Heteroaromatics on a Molecular Level. *ACS Catalysis*, **2016**, 6, 1455-1476	13.1	20
67	Counting Active Sites on Titanium Oxide–Silica Catalysts for Hydrogen Peroxide Activation through In Situ Poisoning with Phenylphosphonic Acid. *ChemCatChem*, **2014**, 6, 3215-3222	5.2	20
66	Catalytic reduction of NO with H2 over redox-cycling Fe on CeO2. *Applied Catalysis B: Environmental* , **2015**, 168-169, 68-76	21.8	19
65	Cyclohexane oxidative dehydrogenation over copper oxide catalysts. *Journal of Catalysis*, **2016**, 341, 180-190	7.3	19
64	Multifunctional photo/thermal catalysts for the reduction of carbon dioxide. *Catalysis Today*, **2017**, 280, 65-73	5.3	18
63	Catalyst structure and substituent effects on epoxidation of styrenics with immobilized Mn(tmtacn) complexes. *Applied Catalysis A: General*, **2016**, 511, 78-86	5.1	17
62	Structural and electronic promotion with alkali cations of silica-supported Fe(III) sites for alkane oxidation. *Journal of Catalysis*, **2012**, 296, 77-85	7.3	17
61	Mechanism of Regioselective Ring-Opening Reactions of 1,2-Epoxyoctane Catalyzed by Tris(pentafluorophenyl)borane: A Combined Experimental, Density Functional Theory, and Microkinetic Study. *ACS Catalysis*, **2018**, 8, 11119-11133	13.1	17
60	Role of Support Lewis Acid Strength in Copper-Oxide-Catalyzed Oxidative Dehydrogenation of Cyclohexane. *ACS Catalysis*, **2018**, 8, 7598-7607	13.1	17
59	Solid Cocatalysts for Activating Manganese Triazacyclononane Oxidation Catalysts. *ACS Catalysis*, **2011**, 1, 1691-1701	13.1	16
58	Comprehensive Phase Diagrams of MoS2 Edge Sites Using Dispersion-Corrected DFT Free Energy Calculations. *Journal of Physical Chemistry C*, **2018**, 122, 15318-15329	3.8	15
57	Fast Cyclohexane Oxidation Under Mild Reaction Conditions Through a Controlled Creation of Redox-Active Fe(II/III) Sites in a Metal–Organic Framework. *ChemCatChem*, **2019**, 11, 5650-5656	5.2	15
56	Recovery of dilute aqueous acetone, butanol, and ethanol with immobilized calixarene cavities. *ACS Applied Materials & Interfaces*, **2014**, 6, 289-97	9.5	15
55	Synthesis and stabilization of small Pt nanoparticles on TiO2 partially masked by SiO2. *Applied Catalysis A: General*, **2018**, 551, 122-128	5.1	15
54	Role of surface reconstruction on Cu/TiO2 nanotubes for CO2 conversion. *Applied Catalysis B: Environmental*, **2019**, 255, 117754	21.8	14
53	Ni(II) complex on a bispyridine-based porous organic polymer as a heterogeneous catalyst for ethylene oligomerization. *Catalysis Science and Technology*, **2017**, 7, 4351-4354	5.5	14

52	Predicting NO Catalysis by Quantifying Ce from Surface and Lattice Oxygen. *ACS Applied Materials & Interfaces*, **2017**, 9, 30670-30678	9.5	13
51	Vapor-phase ethanol carbonylation with heteropolyacid-supported Rh. *Journal of Catalysis*, **2015**, 325, 1-8	7.3	12
50	Enhancing the Regioselectivity of B(C6F5)3-Catalyzed Epoxide Alcoholysis Reactions Using Hydrogen-Bond Acceptors. *ACS Catalysis*, **2019**, 9, 9663-9670	13.1	11
49	Isobutane Dehydrogenation over Bulk and Supported Molybdenum Sulfide Catalysts. *Industrial & Engineering Chemistry Research*, **2020**, 59, 1113-1122	3.9	11
48	Increased productivity in ethylene carbonylation by zeolite-supported molybdenum carbonyls. *Journal of Catalysis*, **2016**, 338, 313-320	7.3	11
47	Acceptorless Dehydrogenative Coupling of Neat Alcohols Using Group VI Sulfide Catalysts. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 4890-4896	8.3	10
46	Microkinetic modeling of cis-cyclooctene oxidation on heterogeneous Mn□mtacn complexes. *Journal of Catalysis*, **2012**, 291, 17-25	7.3	10
45	Supramolecular Porous Assemblies of Atomically Precise Catalytically Active Cerium-Based Clusters. *Chemistry of Materials*, **2020**, 32, 8522-8529	9.6	10
44	Cyclohexene epoxidation with H2O2 in the vapor and liquid phases over a vanadium-based metal□rganic framework. *Catalysis Science and Technology*, **2020**, 10, 4580-4585	5.5	9
43	Increasing the Aromatic Selectivity of Quinoline Hydrogenolysis Using Pd/MOx□Al2O3. *Catalysis Letters*, **2014**, 144, 1832-1838	2.8	9
42	Zr6O8 Node-Catalyzed Butene Hydrogenation and Isomerization in the Metal□Organic Framework NU-1000. *ACS Catalysis*, **2020**, 10, 14959-14970	13.1	9
41	Identifying Boron Active Sites for the Oxidative Dehydrogenation of Propane. *ACS Catalysis*, **2021**, 11, 9370-9376	13.1	9
40	Strong electrostatic adsorption of Pt onto SiO partially overcoated AlO-Towards single atom catalysts. *Journal of Chemical Physics*, **2019**, 151, 214703	3.9	9
39	Comparing GGA, GGA+U, and meta-GGA functionals for redox-dependent binding at open metal sites in metal-organic frameworks. *Journal of Chemical Physics*, **2020**, 152, 224101	3.9	8
38	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. *Angewandte Chemie - International Edition*, **2020**, 59, 19494-19502	16.4	8
37	Demonstrating the Critical Role of Solvation in Supported Ti and Nb Epoxidation Catalysts via Vapor-Phase Kinetics. *ACS Catalysis*, **2020**, 10, 2817-2825	13.1	8
36	Strong Influence of the Nucleophile on the Rate and Selectivity of 1,2-Epoxyoctane Ring Opening Catalyzed by Tris(pentafluorophenyl)borane, B(C6F5)3. *ACS Catalysis*, **2019**, 9, 11589-11602	13.1	8
35	Graftable chiral ligands for surface organometallic materials: calixarenes bearing asymmetric centers directly attached to the lower rim. *New Journal of Chemistry*, **2008**, 32, 1314	3.6	8

34	Vapor phase ethanol carbonylation over Rh supported on zeolite 13X. *Applied Catalysis A: General*, **2016**, 520, 122-131	5.1	8
33	Evidence for Copper Dimers in Low-Loaded CuOx/SiO2 Catalysts for Cyclohexane Oxidative Dehydrogenation. *ACS Catalysis*, **2018**, 8, 9775-9789	13.1	8
32	Direct Visualization of Independent Ta Centers Supported on Two-Dimensional TiO Nanosheets. *Nano Letters*, **2019**, 19, 8103-8108	11.5	7
31	The role of iodide promoters and the mechanism of ethylene carbonylation catalyzed by molybdenum hexacarbonyl. *Journal of Catalysis*, **2014**, 319, 211-219	7.3	7
30	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. *Angewandte Chemie*, **2020**, 132, 19662-19670	3.6	6
29	Hybrid Approach for Selective Sulfoxidation via Bioelectrochemically Derived Hydrogen Peroxide over a Niobium(V)□Silica Catalyst. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 7880-7889	8.3	6
28	In-situ IR spectroscopy as a probe of oxidation/reduction of Ce in nanostructured CeO2. *Applied Surface Science*, **2018**, 445, 548-554	6.7	6
27	In situ FTIR spectroscopy of highly dispersed FeOx catalysts for NO reduction: Role of Na promoter. *Catalysis Today*, **2016**, 267, 56-64	5.3	6
26	Vapor-Phase Cyclohexene Epoxidation by Single-Ion Fe(III) Sites in Metal-Organic Frameworks. *Inorganic Chemistry*, **2021**, 60, 2457-2463	5.1	6
25	Synthesis of a family of peracid-silica materials and their use as alkene epoxidation reagents. *Microporous and Mesoporous Materials*, **2016**, 225, 289-295	5.3	5
24	Gas phase acceptorless dehydrogenative coupling of ethanol over bulk MoS2 and spectroscopic measurement of structural disorder. *Journal of Catalysis*, **2018**, 366, 159-166	7.3	5
23	Identifying properties of low-loaded CoOX/CeO2 via X-ray absorption spectroscopy for NO reduction by CO. *Journal of Catalysis*, **2020**, 381, 355-362	7.3	5
22	Catalytic dehydrogenation of isobutane over supported MoOx/K-Al2O3. *Journal of Catalysis*, **2021**, 397, 212-222	7.3	5
21	C□N bond hydrogenolysis of aniline and cyclohexylamine over TaOx□Al2O3. *New Journal of Chemistry*, **2016**, 40, 6001-6004	3.6	4
20	Controlled Deposition of Silica on Titania-Silica to Alter the Active Site Surroundings on Epoxidation Catalysts. *ACS Catalysis*, **2020**, 10, 13008-13018	13.1	4
19	Machine Learning the Quantum-Chemical Properties of Metal□Organic Frameworks for Accelerated Materials Discovery with a New Electronic Structure Database		3
18	Creating Br□sted acidity at the SiO2-Nb2O5 interface. *Journal of Catalysis*, **2021**, 394, 387-396	7.3	3
17	Modulating Chemical Environments of Metal-Organic Framework-Supported Molybdenum(VI) Catalysts for Insights into the Structure-Activity Relationship in Cyclohexene Epoxidation.. *Journal of the American Chemical Society*, **2022**, 144, 3554-3563	16.4	3

16	Photo-Initiated Reduction of CO by H on Silica Surface. *ChemSusChem*, **2018**, 11, 1163-1168	8.3	2
15	Covalent Grafting of m-Phenylene-Ethynylene Oligomers to Oxide Surfaces. *Chemistry of Materials*, **2010**, 22, 5319-5327	9.6	2
14	Realizing the data-driven, computational discovery of metal-organic framework catalysts. *Current Opinion in Chemical Engineering*, **2022**, 35, 100760	5.4	2
13	A tri-layer approach to controlling nanopore formation in oxide supports. *Nano Research*, **2019**, 12, 1223-1228	10	1
12	Investigating the effect of metal nuclearity on activity for ethylene hydrogenation by metal-organic-framework-supported oxy-Ni(II) catalysts. *Journal of Catalysis*, **2022**, 407, 162-162	7.3	1
11	Promoter Effects on Catalyst Selectivity and Stability for Propylene Partial Oxidation to Acrolein. *Catalysis Letters*, **2020**, 150, 826-836	2.8	1
10	Identifying Support Effects in Au-Catalyzed CO Oxidation. *ACS Catalysis*, **2021**, 11, 11921-11928	13.1	1
9	Exploring mechanistic routes for light alkane oxidation with an iron-triazolate metal-organic framework.. *Physical Chemistry Chemical Physics*, **2022**,	3.6	1
8	Improving and stabilizing fluorinated aryl borane catalysts for epoxide ring-opening. *Applied Catalysis A: General*, **2022**, 636, 118601	5.1	0
7	Heterometallic Ce/ V Oxo Clusters with Adjustable Catalytic Reactivities. *Journal of the American Chemical Society*, **2021**,	16.4	0
6	Mapping the thermal entrenchment behavior of Pd nanoparticles on planar SiO supports. *Nanoscale*, **2020**, 12, 14245-14258	7.7	
5	Photo-Initiated Reduction of CO2 by H2 on Silica Surface. *ChemSusChem*, **2018**, 11, 1135-1135	8.3	
4	R. Ebesta (ed.): Enantioselective Homogeneous Supported Catalysis. *Catalysis Letters*, **2012**, 142, 1150-1151	2.8	
3	A Unique Qualitative GC Experiment for an Undergraduate Instrumental Methods Course Using Selective Photoionization Detectors. *Journal of Chemical Education*, **1998**, 75, 360	2.4	
2	Submonolayer Is Enough: Switching Reaction Channels on Pt/SiO2 by Atomic Layer Deposition. *Journal of Physical Chemistry C*, **2021**, 125, 18725-18733	3.8	
1	Orientation of 1,1?-Bi-2-naphthol Grafted onto TiO2. *Journal of Physical Chemistry C*, **2022**, 126, 7980-7990	3.8	