Alexis T Bell

List of Publications by Year
in descending order

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531 papers	59,447 citations	1094 112 h-index	1341 223 g-index
560 all docs	560 docs citations	560 times ranked	40452 citing authors

#	Article	IF	Citations
1	Membraneâ€electrode assembly design parameters for optimal CO₂ reduction. Electrochemical Science Advances, 2023, 3, .	1.2	14
2	Insights into the mechanism and kinetics of propene oxidation and ammoxidation over bismuth molybdate catalysts derived from experiments and theory. Journal of Catalysis, 2022, 408, 436-452.	3.1	18
3	Investigation of the modes of NO adsorption in Pd/H-CHA. Applied Catalysis B: Environmental, 2022, 304, 120992.	10.8	18
4	Mechanistic understanding of pH effects on the oxygen evolution reaction. Electrochimica Acta, 2022, 405, 139810.	2.6	31
5	Engineering Catalystâ€“Electrolyte Microenvironments to Optimize the Activity and Selectivity for the Electrochemical Reduction of CO₂ on Cu and Ag. Accounts of Chemical Research, 2022, 55, 484-494.	7.6	81
6	Mechanism and Kinetics of n-Butane Dehydrogenation to 1,3-Butadiene Catalyzed by Isolated Pt Sites Grafted onto â‰¡SiOZnâ€“OH Nests in Dealuminated Zeolite Beta. ACS Catalysis, 2022, 12, 3333-3345.	5.5	18
7	Highly selective and productive reduction of carbon dioxide to multicarbon products via in situ CO management using segmented tandem electrodes. Nature Catalysis, 2022, 5, 202-211.	16.1	120
8	Pathways for the Formation of C₂₊ Products under Alkaline Conditions during the Electrochemical Reduction of CO₂. ACS Energy Letters, 2022, 7, 1679-1686.	8.8	27
9	Continuum Modeling of Porous Electrodes for Electrochemical Synthesis. Chemical Reviews, 2022, 122, 11022-11084.	23.0	46
10	Assessing the stability of Pd-exchanged sites in zeolites with the aid of a high throughput quantum chemistry workflow. Nature Communications, 2022, 13, .	5.8	9
11	Siloxyaluminate and Siloxygallate Complexes as Models for Framework and Partially Hydrolyzed Framework Sites in Zeolites and Zeotypes. Chemistry - A European Journal, 2021, 27, 307-315.	1.7	2
12	Challenges for density functional theory: calculation of CO adsorption on electrocatalytically relevant metals. Physical Chemistry Chemical Physics, 2021, 23, 9394-9406.	1.3	15
13	Mechanism and Kinetics of Light Alkane Dehydrogenation and Cracking over Isolated Ga Species in Ga/H-MFI. ACS Catalysis, 2021, 11, 2062-2075.	5.5	31
14	Mechanism and Kinetics of Acetone Conversion to Isobutene over Isolated Hf Sites Grafted to Silicalite-1 and SiO₂. Journal of the American Chemical Society, 2021, 143, 8352-8366.	6.6	33
15	Critical Role of Thermal Fluctuations for CO Binding on Electrocatalytic Metal Surfaces. Jacs Au, 2021, 1, 1708-1718.	3.6	10
16	Software for the frontiers of quantum chemistry: An overview of developments in the Q-Chem 5 package. Journal of Chemical Physics, 2021, 155, 084801.	1.2	518
17	Fewâ€Unitâ€Cell MFI Zeolite Synthesized using a Simple Diâ€quaternary Ammonium Structureâ€Directing Agent. Angewandte Chemie - International Edition, 2021, 60, 19214-19221.	7.2	19
18	The Role of Roughening to Enhance Selectivity to C₂₊ Products during CO₂ Electroreduction on Copper. ACS Energy Letters, 2021, 6, 3252-3260.	8.8	38

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19	Fewâ€Unitâ€Cell MFI Zeolite Synthesized using a Simple Diâ€quaternary Ammonium Structureâ€Directing Agent. Angewandte Chemie, 2021, 133, 19363-19370.	1.6	8
20	Challenges for the theoretical description of the mechanism and kinetics of reactions catalyzed by zeolites. Journal of Catalysis, 2021, 404, 832-849.	3.1	6
21	Computational modeling predicts the stability of both Pd⁺ and Pd²⁺ ion-exchanged into H-CHA. Journal of Materials Chemistry A, 2021, 9, 2161-2174.	5.2	20
22	Kinetic modeling of nitrous oxide decomposition on Fe-ZSM-5 in the presence of nitric oxide based on parameters obtained from first-principles calculations. Catalysis Science and Technology, 2021, 11, 3539-3555.	2.1	3
23	Tailored catalyst microenvironments for CO2 electroreduction to multicarbon products on copper using bilayer ionomer coatings. Nature Energy, 2021, 6, 1026-1034.	19.8	194
24	On the Nature of Field-Enhanced Water Dissociation in Bipolar Membranes. Journal of Physical Chemistry C, 2021, 125, 24974-24987.	1.5	17
25	Propane Dehydrogenation and Cracking over Zn/H-MFI Prepared by Solid-State Ion Exchange of ZnCl₂. ACS Catalysis, 2021, 11, 14489-14506.	5.5	33
26	Propane Dehydrogenation Catalyzed by Isolated Pt Atoms in â‰¡SiOZnâ€“OH Nests in Dealuminated Zeolite Beta. Journal of the American Chemical Society, 2021, 143, 21364-21378.	6.6	92
27	Electronic structure calculations permit identification of the driving forces behind frequency shifts in transition metal monocarbonyls. Physical Chemistry Chemical Physics, 2020, 22, 781-798.	1.3	21
28	Facing the Challenges of Borderline Oxidation State Assignments Using State-of-the-Art Computational Methods. Inorganic Chemistry, 2020, 59, 15410-15420.	1.9	27
29	The Role of Water in Vapor-fed Proton-Exchange-Membrane Electrolysis. Journal of the Electrochemical Society, 2020, 167, 104508.	1.3	34
30	Electrocatalytic CO2 Reduction to Fuels: Progress and Opportunities. Trends in Chemistry, 2020, 2, 825-836.	4.4	104
31	Influence of surface Sn species and hydrogen interactions on the OH group formation over spherical silica-supported tin oxide catalysts. Reaction Chemistry and Engineering, 2020, 5, 1814-1823.	1.9	4
32	Ethanol Conversion to Butadiene over Isolated Zinc and Yttrium Sites Grafted onto Dealuminated Beta Zeolite. Journal of the American Chemical Society, 2020, 142, 14674-14687.	6.6	90
33	A Perspective on the Electrochemical Oxidation of Methane to Methanol in Membrane Electrode Assemblies. ACS Energy Letters, 2020, 5, 2954-2963.	8.8	45
34	A systematic analysis of Cu-based membrane-electrode assemblies for CO₂ reduction through multiphysics simulation. Energy and Environmental Science, 2020, 13, 3592-3606.	15.6	67
35	Scanning Nanobeam Diffraction and Energy Dispersive Spectroscopy Characterization of a Model Mn-Promoted Co/Al₂O₃ Nanosphere Catalyst for Fischerâ€“Tropsch Synthesis. ACS Catalysis, 2020, 10, 12071-12079.	5.5	7
36	Understanding Multi-Ion Transport Mechanisms in Bipolar Membranes. ACS Applied Materials & Interfaces, 2020, 12, 52509-52526.	4.0	54

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37	Experimental and Computational Studies of Carbonâ€“Carbon Bond Formation via Ketonization and Aldol Condensation over Site-Isolated Zirconium Catalysts. ACS Catalysis, 2020, 10, 4566-4579.	5.5	33
38	Effects of Surface Roughness on the Electrochemical Reduction of CO₂ over Cu. ACS Energy Letters, 2020, 5, 1206-1214.	8.8	172
39	Production of C₂/C₃ Oxygenates from Planar Copper Nitride-Derived Mesoporous Copper via Electrochemical Reduction of CO₂. Chemistry of Materials, 2020, 32, 3304-3311.	3.2	64
40	Heterogenized Pyridine-Substituted Cobalt(II) Phthalocyanine Yields Reduction of CO₂ by Tuning the Electron Affinity of the Co Center. ACS Applied Materials & Interfaces, 2020, 12, 5251-5258.	4.0	41
41	Impact of Pulsed Electrochemical Reduction of CO₂ on the Formation of C₂₊ Products over Cu. ACS Catalysis, 2020, 10, 12403-12413.	5.5	83
42	Understanding cation effects in electrochemical CO₂ reduction. Energy and Environmental Science, 2019, 12, 3001-3014.	15.6	433
43	Factors and Dynamics of Cu Nanocrystal Reconstruction under CO₂ Reduction. ACS Applied Energy Materials, 2019, 2, 7744-7749.	2.5	56
44	Mechanism and Kinetics of Isobutene Formation from Ethanol and Acetone over Zn_xZr_yO_z. ACS Catalysis, 2019, 9, 10588-10604.	5.5	32
45	Synthesis of Biomassâ€Derived Ethers for Use as Fuels and Lubricants. ChemSusChem, 2019, 12, 2835-2858.	3.6	56
46	Zeolite-Catalyzed Isobutene Amination: Mechanism and Kinetics. ACS Catalysis, 2019, 9, 7012-7022.	5.5	19
47	Towards membrane-electrode assembly systems for CO₂ reduction: a modeling study. Energy and Environmental Science, 2019, 12, 1950-1968.	15.6	273
48	Response to â€œImpact of Zeolite Structure on Entropicâ€“Enthalpic Contributions to Alkane Monomolecular Cracking: An IR Operando Studyâ€• Chemistry - A European Journal, 2019, 25, 7225-7226.	1.7	1
49	Influence of Atomic Surface Structure on the Activity of Ag for the Electrochemical Reduction of CO₂ to CO. ACS Catalysis, 2019, 9, 4006-4014.	5.5	119
50	Explaining the Incorporation of Oxygen Derived from Solvent Water into the Oxygenated Products of CO Reduction over Cu. Journal of the American Chemical Society, 2019, 141, 4191-4193.	6.6	29
51	Propanol Amination over Supported Nickel Catalysts: Reaction Mechanism and Role of the Support. ACS Catalysis, 2019, 9, 2931-2939.	5.5	54
52	Mechanism and Kinetics of Propane Dehydrogenation and Cracking over Ga/H-MFI Prepared via Vapor-Phase Exchange of H-MFI with GaCl₃. Journal of the American Chemical Society, 2019, 141, 1614-1627.	6.6	107
53	Challenges in Modeling Electrochemical Reaction Energetics with Polarizable Continuum Models. ACS Catalysis, 2019, 9, 920-931.	5.5	153
54	Understanding BrÃ¸nsted-Acid Catalyzed Monomolecular Reactions of Alkanes in Zeolite Pores by Combining Insights from Experiment and Theory. ChemPhysChem, 2018, 19, 338-338.	1.0	0

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55	Impact of long-range electrostatic and dispersive interactions on theoretical predictions of adsorption and catalysis in zeolites. Catalysis Today, 2018, 312, 51-65.	2.2	35
56	Effects of Anion Identity and Concentration on Electrochemical Reduction of CO₂. ChemElectroChem, 2018, 5, 1064-1072.	1.7	165
57	Is Subsurface Oxygen Necessary for the Electrochemical Reduction of CO₂ on Copper?. Journal of Physical Chemistry Letters, 2018, 9, 601-606.	2.1	118
58	Mechanism of CO₂ Reduction at Copper Surfaces: Pathways to C₂ Products. ACS Catalysis, 2018, 8, 1490-1499.	5.5	608
59	Atomistic Investigations of the Effects of Si/Al Ratio and Al Distribution on the Adsorption Selectivity of n-Alkanes in BrÃ¸nsted-Acid Zeolites. Journal of Physical Chemistry C, 2018, 122, 9397-9410.	1.5	35
60	Understanding BrÃ¸nstedâ€Acid Catalyzed Monomolecular Reactions of Alkanes in Zeolite Pores by Combining Insights from Experiment and Theory. ChemPhysChem, 2018, 19, 341-358.	1.0	21
61	Chapter 3. Understanding the Effects of Composition and Structure on the Oxygen Evolution Reaction (OER) Occurring on NiFeOx Catalysts. RSC Energy and Environment Series, 2018, , 79-116.	0.2	3
62	Reaction mechanism of the selective reduction of CO₂ to CO by a tetraaza [Co^{II}N₄H]²⁺ complex in the presence of protons. Physical Chemistry Chemical Physics, 2018, 20, 24058-24064.	1.3	15
63	Characterization of Isolated Ga³⁺ Cations in Ga/H-MFI Prepared by Vapor-Phase Exchange of H-MFI Zeolite with GaCl₃. ACS Catalysis, 2018, 8, 6106-6126.	5.5	85
64	Continuous pervaporation-assisted furfural production catalyzed by CrCl₃. Green Chemistry, 2018, 20, 2903-2912.	4.6	22
65	Standards and Protocols for Data Acquisition and Reporting for Studies of the Electrochemical Reduction of Carbon Dioxide. ACS Catalysis, 2018, 8, 6560-6570.	5.5	250
66	Direct Observation of the Local Reaction Environment during the Electrochemical Reduction of CO₂. Journal of the American Chemical Society, 2018, 140, 7012-7020.	6.6	176
67	Computational Modeling of the Nature and Role of Ga Species for Light Alkane Dehydrogenation Catalyzed by Ga/H-MFI. ACS Catalysis, 2018, 8, 6146-6162.	5.5	86
68	Effect of Alcohol Structure on the Kinetics of Etherification and Dehydration over Tungstated Zirconia. ChemSusChem, 2018, 11, 3104-3111.	3.6	25
69	The mechanism and kinetics of methyl isobutyl ketone synthesis from acetone over ion-exchanged hydroxyapatite. Journal of Catalysis, 2018, 365, 174-183.	3.1	25
70	Nonempirical Meta-Generalized Gradient Approximations for Modeling Chemisorption at Metal Surfaces. Journal of Chemical Theory and Computation, 2018, 14, 3083-3090.	2.3	20
71	Modeling gas-diffusion electrodes for CO₂ reduction. Physical Chemistry Chemical Physics, 2018, 20, 16973-16984.	1.3	305
72	Theoretical Analysis of the Influence of Pore Geometry on Monomolecular Cracking and Dehydrogenation ofn-Butane in BrÃ¸nsted Acidic Zeolites. ACS Catalysis, 2017, 7, 2685-2697.	5.5	42

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73	Production of Biomassâ€Based Automotive Lubricants by Reductive Etherification. ChemSusChem, 2017, 10, 2527-2533.	3.6	31
74	Optimizing Câ€“C Coupling on Oxide-Derived Copper Catalysts for Electrochemical CO₂ Reduction. Journal of Physical Chemistry C, 2017, 121, 14191-14203.	1.5	254
75	Artificial neural network based predictions of cetane number for furanic biofuel additives. Fuel, 2017, 206, 171-179.	3.4	60
76	Effects of Pore and Cage Topology on the Thermodynamics of n-Alkane Adsorption at BrÃ¸nsted Protons in Zeolites at High Temperature. Journal of Physical Chemistry C, 2017, 121, 1618-1638.	1.5	17
77	Mechanistic insights into electrochemical reduction of CO ₂ over Ag using density functional theory and transport models. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8812-E8821.	3.3	219
78	Mechanism and kinetics of 1-dodecanol etherification over tungstated zirconia. Journal of Catalysis, 2017, 354, 13-23.	3.1	25
79	Nanoporous gold assemblies of calixarene-phosphine-capped colloids. Chemical Communications, 2017, 53, 10870-10873.	2.2	4
80	Integrated catalytic sequences for catalytic upgrading of bio-derived carboxylic acids to fuels, lubricants and chemical feedstocks. Sustainable Energy and Fuels, 2017, 1, 1805-1809.	2.5	20
81	Novel Strategies for the Production of Fuels, Lubricants, and Chemicals from Biomass. Accounts of Chemical Research, 2017, 50, 2589-2597.	7.6	159
82	Promoter Effects of Alkali Metal Cations on the Electrochemical Reduction of Carbon Dioxide. Journal of the American Chemical Society, 2017, 139, 11277-11287.	6.6	653
83	Electrochemical CO₂ Reduction over Compressively Strained CuAg Surface Alloys with Enhanced Multi-Carbon Oxygenate Selectivity. Journal of the American Chemical Society, 2017, 139, 15848-15857.	6.6	470
84	A DFT Investigation of the Mechanism of Propene Ammoxidation over Î±-Bismuth Molybdate. ACS Catalysis, 2017, 7, 161-176.	5.5	26
85	Kinetics of hydrogenation and hydrogenolysis of 2,5-dimethylfuran over noble metals catalysts under mild conditions. Applied Catalysis B: Environmental, 2017, 202, 557-568.	10.8	41
86	Ga[OSi(O^tBu)₃]₃Â·THF, a thermolytic molecular precursor for high surface area gallium-containing silica materials of controlled dispersion and stoichiometry. Dalton Transactions, 2016, 45, 11025-11034.	1.6	18
87	From Sugars to Wheels: The Conversion of Ethanol to 1,3â€Butadiene over Metalâ€Promoted Magnesiaâ€Silicate Catalysts. ChemSusChem, 2016, 9, 1462-1472.	3.6	84
88	CO₂ Electroreduction with Enhanced Ethylene and Ethanol Selectivity by Nanostructuring Polycrystalline Copper. ChemElectroChem, 2016, 3, 1012-1019.	1.7	142
89	Theoretical Study of 4-(Hydroxymethyl)benzoic Acid Synthesis from Ethylene and 5-(Hydroxymethyl)furoic Acid Catalyzed by Sn-BEA. ACS Catalysis, 2016, 6, 5052-5061.	5.5	18
90	Identifying the Unique Properties of Î±-Bi₂Mo₃O₁₂ for the Activation of Propene. Journal of Physical Chemistry C, 2016, 120, 29233-29247.	1.5	9

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91	Growth of encapsulating carbon on supported Pt nanoparticles studied by in situ TEM. Journal of Catalysis, 2016, 338, 295-304.	3.1	39
92	Effects of Lewis acidity of metal oxide promoters on the activity and selectivity of Co-based Fischerâ€“Tropsch synthesis catalysts. Journal of Catalysis, 2016, 338, 250-264.	3.1	71
93	The mechanism and kinetics of propene ammoxidation over Î±-bismuth molybdate. Journal of Catalysis, 2016, 339, 228-241.	3.1	22
94	Thermodynamics of Anharmonic Systems: Uncoupled Mode Approximations for Molecules. Journal of Chemical Theory and Computation, 2016, 12, 2861-2870.	2.3	38
95	Identification of Possible Pathways for Câ€“C Bond Formation during Electrochemical Reduction of CO₂: New Theoretical Insights from an Improved Electrochemical Model. Journal of Physical Chemistry Letters, 2016, 7, 1471-1477.	2.1	479
96	Experimental and Computational Evidence of Highly Active Fe Impurity Sites on the Surface of Oxidized Au for the Electrocatalytic Oxidation of Water in Basic Media. ChemElectroChem, 2016, 3, 66-73.	1.7	44
97	Pervaporation-assisted catalytic conversion of xylose to furfural. Green Chemistry, 2016, 18, 4073-4085.	4.6	28
98	Effects of temperature and gasâ€“liquid mass transfer on the operation of small electrochemical cells for the quantitative evaluation of CO₂reduction electrocatalysts. Physical Chemistry Chemical Physics, 2016, 18, 26777-26785.	1.3	138
99	Production of Hydroxyl-rich Acids from Xylose and Glucose Using Sn-BEA Zeolite. ChemistrySelect, 2016, 1, 4167-4172.	0.7	27
100	Effects of Composition and Structure of Mg/Al Oxides on Their Activity and Selectivity for the Condensation of Methyl Ketones. Industrial & Engineering Chemistry Research, 2016, 55, 10635-10644.	1.8	32
101	Propene Metathesis over Supported Tungsten Oxide Catalysts: A Study of Active Site Formation. ACS Catalysis, 2016, 6, 7728-7738.	5.5	60
102	Quantum Mechanical Screening of Single-Atom Bimetallic Alloys for the Selective Reduction of CO₂ to C₁ Hydrocarbons. ACS Catalysis, 2016, 6, 7769-7777.	5.5	190
103	Hydrolysis of Electrolyte Cations Enhances the Electrochemical Reduction of CO₂ over Ag and Cu. Journal of the American Chemical Society, 2016, 138, 13006-13012.	6.6	640
104	Operando Analyses of Solar Fuels Light Absorbers and Catalysts. Electrochimica Acta, 2016, 211, 711-719.	2.6	23
105	Delignification of miscanthus using ethylenediamine (EDA) with or without ammonia and subsequent enzymatic hydrolysis to sugars. 3 Biotech, 2016, 6, 23.	1.1	11
106	Effects of Zeolite Structural Confinement on Adsorption Thermodynamics and Reaction Kinetics for Monomolecular Cracking and Dehydrogenation of n-Butane. Journal of the American Chemical Society, 2016, 138, 4739-4756.	6.6	72
107	A systematic study on Pt based, subnanometer-sized alloy cluster catalysts for alkane dehydrogenation: effects of intermetallic interaction. Physical Chemistry Chemical Physics, 2016, 18, 10906-10917.	1.3	29
108	Production of renewable lubricants via self-condensation of methyl ketones. Green Chemistry, 2016, 18, 3577-3581.	4.6	29

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109	The role of hydrogen during Ptâ€“Ga nanocatalyst formation. Physical Chemistry Chemical Physics, 2016, 18, 3234-3243.	1.3	27
110	Ambient-Pressure XPS Study of a Niâ€“Fe Electrocatalyst for the Oxygen Evolution Reaction. Journal of Physical Chemistry C, 2016, 120, 2247-2253.	1.5	336
111	Mechanism and Kinetics of Ethanol Coupling to Butanol over Hydroxyapatite. ACS Catalysis, 2016, 6, 939-948.	5.5	139
112	Trace Levels of Copper in Carbon Materials Show Significant Electrochemical CO₂ Reduction Activity. ACS Catalysis, 2016, 6, 202-209.	5.5	143
113	Role of ZrO₂ in Promoting the Activity and Selectivity of Co-Based Fischerâ€“Tropsch Synthesis Catalysts. ACS Catalysis, 2016, 6, 100-114.	5.5	56
114	Design of an artificial photosynthetic system for production of alcohols in high concentration from CO₂. Energy and Environmental Science, 2016, 9, 193-199.	15.6	47
115	Effects of catalyst crystal structure on the oxidation of propene to acrolein. Catalysis Today, 2016, 261, 146-153.	2.2	22
116	Non-Oxidative Dehydrogenation Pathways for the Conversion of C2-C4Alcohols to Carbonyl Compounds. ChemSusChem, 2015, 8, 3917-3917.	3.6	0
117	Upgrading Lignocellulosic Products to Dropâ€in Biofuels via Dehydrogenative Crossâ€Coupling and Hydrodeoxygenation Sequence. ChemSusChem, 2015, 8, 2609-2614.	3.6	31
118	Nonâ€Oxidative Dehydrogenation Pathways for the Conversion of C₂â€“C₄ Alcohols to Carbonyl Compounds. ChemSusChem, 2015, 8, 3959-3962.	3.6	11
119	Adsorption Thermodynamics and Intrinsic Activation Parameters for Monomolecular Cracking of n-Alkanes on BrÃ¸nsted Acid Sites in Zeolites. Journal of Physical Chemistry C, 2015, 119, 10427-10438.	1.5	48
120	Novel pathways for fuels and lubricants from biomass optimized using life-cycle greenhouse gas assessment. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7645-7649.	3.3	101
121	Investigations of element spatial correlation in Mn-promoted Co-based Fischerâ€“Tropsch synthesis catalysts. Journal of Catalysis, 2015, 328, 111-122.	3.1	29
122	Catalytic Upgrading of Biomassâ€Derived Methyl Ketones to Liquid Transportation Fuel Precursors by an Organocatalytic Approach. Angewandte Chemie - International Edition, 2015, 54, 4673-4677.	7.2	63
123	Selective oxidation and oxidative dehydrogenation of hydrocarbons on bismuth vanadium molybdenum oxide. Journal of Catalysis, 2015, 325, 87-100.	3.1	47
124	Pretreatment of Miscanthus giganteus with Lime and Oxidants for Biofuels. Energy & Fuels, 2015, 29, 1743-1750.	2.5	8
125	Improved Force-Field Parameters for QM/MM Simulations of the Energies of Adsorption for Molecules in Zeolites and a Free Rotor Correction to the Rigid Rotor Harmonic Oscillator Model for Adsorption Enthalpies. Journal of Physical Chemistry C, 2015, 119, 1840-1850.	1.5	110
126	Synthesis of biomass-derived methylcyclopentane as a gasoline additive via aldol condensation/hydrodeoxygenation of 2,5-hexanedione. Green Chemistry, 2015, 17, 2393-2397.	4.6	64

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127	The Role of Metal Halides in Enhancing the Dehydration of Xylose to Furfural. ChemCatChem, 2015, 7, 479-489.	1.8	74
128	Identification of Highly Active Fe Sites in (Ni,Fe)OOH for Electrocatalytic Water Splitting. Journal of the American Chemical Society, 2015, 137, 1305-1313.	6.6	2,018
129	p-Type Transparent Conducting Oxide/n-Type Semiconductor Heterojunctions for Efficient and Stable Solar Water Oxidation. Journal of the American Chemical Society, 2015, 137, 9595-9603.	6.6	122
130	Role of Catalyst Preparation on the Electrocatalytic Activity of Ni_{1â€“x}Fe_xOOH for the Oxygen Evolution Reaction. Journal of Physical Chemistry C, 2015, 119, 18303-18316.	1.5	114
131	Effects of electrolyte, catalyst, and membrane composition and operating conditions on the performance of solar-driven electrochemical reduction of carbon dioxide. Physical Chemistry Chemical Physics, 2015, 17, 18924-18936.	1.3	312
132	SnCl₄-catalyzed isomerization/dehydration of xylose and glucose to furanics in water. Catalysis Science and Technology, 2015, 5, 2839-2847.	2.1	89
133	Highly Selective Condensation of Biomassâ€Derived Methyl Ketones as a Source of Aviation Fuel. ChemSusChem, 2015, 8, 1726-1736.	3.6	105
134	Nitric-acid hydrolysis of Miscanthus giganteus to sugars fermented to bioethanol. Biotechnology and Bioprocess Engineering, 2015, 20, 304-314.	1.4	17
135	An Atomic-Scale View of the Nucleation and Growth of Graphene Islands on Pt Surfaces. Journal of Physical Chemistry C, 2015, 119, 7124-7129.	1.5	21
136	Effects of Fe Electrolyte Impurities on Ni(OH)₂/NiOOH Structure and Oxygen Evolution Activity. Journal of Physical Chemistry C, 2015, 119, 7243-7254.	1.5	806
137	Tailoring Metal-Porphyrin-Like Active Sites on Graphene to Improve the Efficiency and Selectivity of Electrochemical CO₂ Reduction. Journal of Physical Chemistry C, 2015, 119, 21345-21352.	1.5	79
138	Thermodynamic and achievable efficiencies for solar-driven electrochemical reduction of carbon dioxide to transportation fuels. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6111-8.	3.3	103
139	Differential Electrochemical Mass Spectrometer Cell Design for Online Quantification of Products Produced during Electrochemical Reduction of CO₂. Analytical Chemistry, 2015, 87, 8013-8020.	3.2	83
140	Wavefunction stability analysis without analytical electronic Hessians: application to orbital-optimised second-order MÃ¸llerâ€“Plesset theory and VV10-containing density functionals. Molecular Physics, 2015, 113, 1802-1808.	0.8	30
141	Electrochemical Study of the Energetics of the Oxygen Evolution Reaction at Nickel Iron (Oxy)Hydroxide Catalysts. Journal of Physical Chemistry C, 2015, 119, 19022-19029.	1.5	282
142	Ethane and propane dehydrogenation over PtIr/Mg(Al)O. Applied Catalysis A: General, 2015, 506, 25-32.	2.2	64
143	An Investigation into the Effects of Mn Promotion on the Activity and Selectivity of Co/SiO₂ for Fischerâ€“Tropsch Synthesis: Evidence for Enhanced CO Adsorption and Dissociation. ACS Catalysis, 2015, 5, 5888-5903.	5.5	138
144	The Role of Hydroxyl Group Acidity on the Activity of Silicaâ€Supported Secondary Amines for the Selfâ€Condensation of nâ€Butanal. ChemSusChem, 2015, 8, 466-472.	3.6	30

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145	Advances in molecular quantum chemistry contained in the Q-Chem 4 program package. Molecular Physics, 2015, 113, 184-215.	0.8	2,561
146	How to Chemically Tailor Metal-Porphyrin-Like Active Sites on Carbon Nanotubes and Graphene for Minimal Overpotential in the Electrochemical Oxygen Evolution and Oxygen Reduction Reactions. Journal of Physical Chemistry C, 2014, 118, 29482-29491.	1.5	36
147	A finite difference Davidson procedure to sidestep full ab initio hessian calculation: Application to characterization of stationary points and transition state searches. Journal of Chemical Physics, 2014, 140, 164115.	1.2	25
148	Syntheses of Biodiesel Precursors: Sulfonic Acid Catalysts for Condensation of Biomass-Derived Platform Molecules. ChemSusChem, 2014, 7, 945-945.	3.6	0
149	Selective Hydrogenation of Furanâ€Containing Condensation Products as a Source of Biomassâ€Derived Diesel Additives. ChemSusChem, 2014, 7, 2796-2800.	3.6	40
150	Effects of composition and metal particle size on ethane dehydrogenation over PtxSn100â^'x/Mg(Al)O (70â©½xâ©½100). Journal of Catalysis, 2014, 311, 161-168.	3.1	109
151	n-Butane dehydrogenation over Pt/Mg(In)(Al)O. Applied Catalysis A: General, 2014, 470, 208-214.	2.2	38
152	Biomass conversion to diesel via the etherification of furanyl alcohols catalyzed by Amberlyst-15. Journal of Catalysis, 2014, 313, 70-79.	3.1	101
153	Hydrogenation of butanal over silica-supported Shvoâ€™s catalyst and its use for the gas-phase conversion of propene to butanol via tandem hydroformylation and hydrogenation. Journal of Catalysis, 2014, 311, 52-58.	3.1	20
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