Johannes A Lercher

List of Publications by Year
in descending order

592 papers	35,183 citations	3149 92 h-index	7496 151 g-index
633 all docs	633 docs citations	633 times ranked	19106 citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of reaction conditions on the hydrogenolysis of polypropylene and polyethylene into gas and liquid alkanes. Reaction Chemistry and Engineering, 2022, 7, 844-854.	1.9	43
2	Pellet Size-Induced Increase in Catalyst Stability and Yield in Zeolite-Catalyzed 2-Butene/Isobutane Alkylation. Industrial & Engineering Chemistry Research, 2022, 61, 330-338.	1.8	6
3	Enhanced catalytic performance of palladium nanoparticles in MOFs by channel engineering. Cell Reports Physical Science, 2022, 3, 100757.	2.8	6
4	Mechanistic differences between methanol and dimethyl ether in zeolite-catalyzed hydrocarbon synthesis. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	17
5	Di- and Tetrameric Molybdenum Sulfide Clusters Activate and Stabilize Dihydrogen as Hydrides. Jacs Au, 2022, 2, 613-622.	3.6	0
6	A Career in Catalysis: Jean-Marie M. Basset. ACS Catalysis, 2022, 12, 4961-4977.	5.5	3
7	Controlling Reaction Routes in Nobleâ€Metalâ€Catalyzed Conversion of Aryl Ethers. Angewandte Chemie - International Edition, 2022, 61, .	7.2	3
8	Speciation of Cu-Oxo Clusters in Ferrierite for Selective Oxidation of Methane to Methanol. Chemistry of Materials, 2022, 34, 4355-4363.	3.2	11
9	Inside Cover: Controlling Reaction Routes in Nobleâ€Metalâ€Catalyzed Conversion of Aryl Ethers (Angew.) Tj ETQq1 1 0.784314 rgBT /O	7.2	0
10	Innentitelbild: Controlling Reaction Routes in Nobleâ€Metalâ€Catalyzed Conversion of Aryl Ethers (Angew. Chem. 30/2022). Angewandte Chemie, 2022, 134, .	1.6	0
11	Metal-organic framework supported single-site nickel catalysts for butene dimerization. Journal of Catalysis, 2022, 413, 176-183.	3.1	9
12	Highly Active and Selective Sites for Propane Dehydrogenation in Zeolite Ga-BEA. Journal of the American Chemical Society, 2022, 144, 12347-12356.	6.6	29
13	Directing the Rateâ€Enhancement for Hydronium Ion Catalyzed Dehydration via Organization of Alkanols in Nanoscopic Confinements. Angewandte Chemie, 2021, 133, 2334-2341.	1.6	4
14	Alkylation of lignin-derived aromatic oxygenates with cyclic alcohols on acidic zeolites. Applied Catalysis B: Environmental, 2021, 281, 119424.	10.8	16
15	Hydrogen Bonding Enhances the Electrochemical Hydrogenation of Benzaldehyde in the Aqueous Phase. Angewandte Chemie, 2021, 133, 294-300.	1.6	12
16	Hydrogen Bonding Enhances the Electrochemical Hydrogenation of Benzaldehyde in the Aqueous Phase. Angewandte Chemie - International Edition, 2021, 60, 290-296.	7.2	40
17	Directing the Rateâ€Enhancement for Hydronium Ion Catalyzed Dehydration via Organization of Alkanols in Nanoscopic Confinements. Angewandte Chemie - International Edition, 2021, 60, 2304-2311.	7.2	19
18	Differences in Mechanism and Rate of Zeolite-Catalyzed Cyclohexanol Dehydration in Apolar and Aqueous Phase. ACS Catalysis, 2021, 11, 2879-2888.	5.5	26

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19	Zeoliteâ€Stabilized Diâ€•and Tetranuclear Molybdenum Sulfide Clusters Form Stable Catalytic Hydrogenation Sites. Angewandte Chemie, 2021, 133, 9387-9391.	1.6	0
20	Toward quantification of active sites and site-specific activity for polyaromatics hydrogenation on transition metal sulfides. Journal of Catalysis, 2021, 403, 98-110.	3.1	6
21	Zeoliteâ€Stabilized Diâ€•and Tetranuclear Molybdenum Sulfide Clusters Form Stable Catalytic Hydrogenation Sites. Angewandte Chemie - International Edition, 2021, 60, 9301-9305.	7.2	10
22	Environment of Metalâ€“Oâ€“Fe Bonds Enabling High Activity in CO₂ Reduction on Single Metal Atoms and on Supported Nanoparticles. Journal of the American Chemical Society, 2021, 143, 5540-5549.	6.6	54
23	Confinement effects and acid strength in zeolites. Nature Communications, 2021, 12, 2630.	5.8	90
24	Role of the ionic environment in enhancing the activity of reacting molecules in zeolite pores. Science, 2021, 372, 952-957.	6.0	79
25	Ni/CeO2 promoted Ru and Pt supported on FeCrAl gauze for cycling methane catalytic partial oxidationâ€"CPOX. Applied Catalysis B: Environmental, 2021, 286, 119849.	10.8	15
26	Activity of Cuâ€“Alâ€“Oxo Extra-Framework Clusters for Selective Methane Oxidation on Cu-Exchanged Zeolites. Jacs Au, 2021, 1, 1412-1421.	3.6	21
27	Influence of Intracrystalline Ionic Strength in MFI Zeolites on Aqueous Phase Dehydration of Methylcyclohexanols. Angewandte Chemie - International Edition, 2021, 60, 24806-24810.	7.2	16
28	Electronic impact of Ni2P nanoparticle size on hydrogenation rates. Journal of Catalysis, 2021, 401, 129-136.	3.1	12
29	Conversion of CO2 to methanol over bifunctional basic-metallic catalysts. Catalysis Communications, 2021, 159, 106347.	1.6	10
30	Laboratory-scale <i>in situ</i> X-ray absorption spectroscopy of a palladium catalyst on a compact inverse-Compton scattering X-ray beamline. Journal of Analytical Atomic Spectrometry, 2021, 36, 2649-2659.	1.6	4
31	RÃ¼cktitelbild: Influence of Intracrystalline Ionic Strength in MFI Zeolites on Aqueous Phase Dehydration of Methylcyclohexanols (Angew. Chem. 47/2021). Angewandte Chemie, 2021, 133, 25368-25368.	1.6	0
32	Critical role of solvent-modulated hydrogen-binding strength in the catalytic hydrogenation of benzaldehyde on palladium. Nature Catalysis, 2021, 4, 976-985.	16.1	49
33	Copper-Based Catalysts Confined in Carbon Nanocage Reactors for Condensed Ester Hydrogenation: Tuning Copper Species by Confined SiO₂ and Methanol Resistance. ACS Sustainable Chemistry and Engineering, 2021, 9, 16270-16280.	3.2	8
34	On the Mechanism of Catalytic Decarboxylation of Carboxylic Acids on Carbon-Supported Palladium Hydride. ACS Catalysis, 2021, 11, 14625-14634.	5.5	11
35	Site Densities, Rates, and Mechanism of Stable Ni/UiO-66 Ethylene Oligomerization Catalysts. Journal of the American Chemical Society, 2021, 143, 20274-20280.	6.6	21
36	Impact of the Local Concentration of Hydronium Ions at Tungstate Surfaces for Acid-Catalyzed Alcohol Dehydration. Journal of the American Chemical Society, 2021, 143, 20133-20143.	6.6	20

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37	Rate enhancement of phenol hydrogenation on Pt by hydronium ions in the aqueous phase. Journal of Catalysis, 2021, 404, 579-593.	3.1	16
38	Intrinsic kinetic model for oxidative dehydrogenation of ethane over MoVTeNb mixed metal oxides: A mechanistic approach. Chemical Engineering Journal, 2020, 383, 123195.	6.6	19
39	Electrochemically Tunable Protonâ€Coupled Electron Transfer in Pdâ€Catalyzed Benzaldehyde Hydrogenation. Angewandte Chemie - International Edition, 2020, 59, 1501-1505.	7.2	53
40	Electrochemically Tunable Protonâ€Coupled Electron Transfer in Pdâ€Catalyzed Benzaldehyde Hydrogenation. Angewandte Chemie, 2020, 132, 1517-1521.	1.6	18
41	The Critical Role of Reductive Steps in the Nickelâ€Catalyzed Hydrogenolysis and Hydrolysis of Aryl Ether Câ^'O Bonds. Angewandte Chemie - International Edition, 2020, 59, 1445-1449.	7.2	40
42	The Critical Role of Reductive Steps in the Nickelâ€Catalyzed Hydrogenolysis and Hydrolysis of Aryl Ether Câ^'O Bonds. Angewandte Chemie, 2020, 132, 1461-1465.	1.6	6
43	On the multifaceted roles of NiSx in hydrodearomatization reactions catalyzed by unsupported Ni-promoted MoS2. Journal of Catalysis, 2020, 391, 212-223.	3.1	8
44	Single-event kinetic model for methanol-to-olefins (MTO) over ZSM-5: Fundamental kinetics for the olefin co-feed reactivity. Chemical Engineering Journal, 2020, 402, 126023.	6.6	22
45	Copper-zirconia interfaces in UiO-66 enable selective catalytic hydrogenation of CO2 to methanol. Nature Communications, 2020, 11, 5849.	5.8	86
46	On the Promoting Effects of Te and Nb in the Activity and Selectivity of M1 MoV-Oxides for Ethane Oxidative Dehydrogenation. Topics in Catalysis, 2020, 63, 1754-1764.	1.3	6
47	Towards understanding and predicting the hydronium ion catalyzed dehydration of cyclic-primary, secondary and tertiary alcohols. Journal of Catalysis, 2020, 390, 237-243.	3.1	14
48	Electrocatalytic Hydrogenation of Biomass-Derived Organics: A Review. Chemical Reviews, 2020, 120, 11370-11419.	23.0	185
49	Surface Effects Determining Transport in Binary Xylene Mixtures. Journal of Physical Chemistry C, 2020, 124, 26814-26820.	1.5	2
50	Rate Enhancement of Acid-Catalyzed Alcohol Dehydration by Supramolecular Organic Capsules. ACS Catalysis, 2020, 10, 13371-13376.	5.5	9
51	Enhancing hydrogenation activity of Ni-Mo sulfide hydrodesulfurization catalysts. Science Advances, 2020, 6, eaax5331.	4.7	39
52	Importance of Methane Chemical Potential for Its Conversion to Methanol on Cuâ€exchanged Mordenite. Chemistry - A European Journal, 2020, 26, 7515-7515.	1.7	3
53	FeCrAl as a Catalyst Support. Chemical Reviews, 2020, 120, 7516-7550.	23.0	59
54	Influence of Acid Sites on Xylene Transport in MFI Type Zeolites. Journal of Physical Chemistry C, 2020, 124, 4134-4140.	1.5	3

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55	Magnesiumâ€“Aluminum Mixed Oxides as Basic Catalysts for the Synthesis of Methanethiol. Catalysis Letters, 2020, 150, 2304-2308.	1.4	2
56	Importance of Methane Chemical Potential for Its Conversion to Methanol on Cuâ€Exchanged Mordenite. Chemistry - A European Journal, 2020, 26, 7563-7567.	1.7	31
57	Aqueous phase catalytic and electrocatalytic hydrogenation of phenol and benzaldehyde over platinum group metals. Journal of Catalysis, 2020, 382, 372-384.	3.1	68
58	Roles of Cu+ and Cu0 sites in liquid-phase hydrogenation of esters on core-shell CuZnx@C catalysts. Applied Catalysis B: Environmental, 2020, 267, 118698.	10.8	68
59	Impact of Alkali and Alkaliâ€Earth Cations on Niâ€Catalyzed Dimerization of Butene. ChemCatChem, 2020, 12, 3705-3711.	1.8	9
60	Development of photochemical and electrochemical cells for <i>operando</i> X-ray absorption spectroscopy during photocatalytic and electrocatalytic reactions. Physical Chemistry Chemical Physics, 2020, 22, 18891-18901.	1.3	6
61	Hydrodeoxygenation of phenolic compounds to cycloalkanes over supported nickel phosphides. Catalysis Today, 2019, 319, 48-56.	2.2	47
62	On the enhanced catalytic activity of acid-treated, trimetallic Ni-Mo-W sulfides for quinoline hydrodenitrogenation. Journal of Catalysis, 2019, 380, 332-342.	3.1	25
63	Maximizing Active Site Concentrations at Ni-Substituted WS2 Edges for Hydrogenation of Aromatic Molecules. Journal of Physical Chemistry Letters, 2019, 10, 5617-5622.	2.1	4
64	Cesium Induced Changes in the Acidâ€“Base Properties of Metal Oxides and the Consequences for Methanol Thiolation. ACS Catalysis, 2019, 9, 9245-9252.	5.5	15
65	Design and synthesis of highly active MoVTeNb-oxides for ethane oxidative dehydrogenation. Nature Communications, 2019, 10, 4012.	5.8	59
66	Effects of Local Water Concentrations on Cyclohexanol Dehydration in H-BEA Zeolites. Journal of Physical Chemistry C, 2019, 123, 25255-25266.	1.5	40
67	The role of weak Lewis acid sites for methanol thiolation. Catalysis Science and Technology, 2019, 9, 509-516.	2.1	14
68	Genesis and Stability of Hydronium Ions in Zeolite Channels. Journal of the American Chemical Society, 2019, 141, 3444-3455.	6.6	119
69	Promotion of protolytic pentane conversion on H-MFI zeolite by proximity of extra-framework aluminum oxide and BrÃ¸nsted acid sites. Journal of Catalysis, 2019, 370, 424-433.	3.1	40
70	Quantifying Adsorption of Organic Molecules on Platinum in Aqueous Phase by Hydrogen Site Blocking and in Situ X-ray Absorption Spectroscopy. ACS Catalysis, 2019, 9, 6869-6881.	5.5	40
71	Selective Methane Oxidation to Methanol on Cu-Oxo Dimers Stabilized by Zirconia Nodes of an NU-1000 Metalâ€“Organic Framework. Journal of the American Chemical Society, 2019, 141, 9292-9304.	6.6	131
72	The synergistic effect between Ni sites and Ni-Fe alloy sites on hydrodeoxygenation of lignin-derived phenols. Applied Catalysis B: Environmental, 2019, 253, 348-358.	10.8	155

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73	On the role of co-cations in nickel exchanged LTA zeolite for butene dimerization. Microporous and Mesoporous Materials, 2019, 284, 241-246.	2.2	15
74	Formation of Active Cu-oxo Clusters for Methane Oxidation in Cu-Exchanged Mordenite. Journal of Physical Chemistry C, 2019, 123, 8759-8769.	1.5	60
75	Catalytic Decomposition of the Oleaginous Yeast <i>Cutaneotrichosporon Oleaginosus</i> and Subsequent Biocatalytic Conversion of Liberated Free Fatty Acids. ACS Sustainable Chemistry and Engineering, 2019, 7, 6531-6540.	3.2	4
76	Operando XAFS Studies on Rh(CAAC)-Catalyzed Arene Hydrogenation. ACS Catalysis, 2019, 9, 4106-4114.	5.5	46
77	Rate enhancement by Cu in Ni_xCu_{1âˆ’x}/ZrO₂ bimetallic catalysts for hydrodeoxygenation of stearic acid. Catalysis Science and Technology, 2019, 9, 2620-2629.	2.1	22
78	Critical role of formaldehyde during methanol conversion to hydrocarbons. Nature Communications, 2019, 10, 1462.	5.8	100
79	Influence of Hydronium Ions in Zeolites on Sorption. Angewandte Chemie - International Edition, 2019, 58, 3450-3455.	7.2	83
80	The Nature of Hydrogen Adsorption on Platinum in the Aqueous Phase. Angewandte Chemie, 2019, 131, 3565-3570.	1.6	2
81	Impact of pH on Aqueous-Phase Phenol Hydrogenation Catalyzed by Carbon-Supported Pt and Rh. ACS Catalysis, 2019, 9, 1120-1128.	5.5	55
82	The Nature of Hydrogen Adsorption on Platinum in the Aqueous Phase. Angewandte Chemie - International Edition, 2019, 58, 3527-3532.	7.2	62
83	Structure Sensitivity in Hydrogenation Reactions on Pt/C in Aqueousâ€phase. ChemCatChem, 2019, 11, 575-582.	1.8	47
84	Influence of Hydronium Ions in Zeolites on Sorption. Angewandte Chemie, 2019, 131, 3488-3493.	1.6	13
85	Understanding Elementary Steps of Transport of Xylene Mixtures in ZSM-5 Zeolites. Journal of Physical Chemistry C, 2019, 123, 8092-8100.	1.5	13
86	Dimerization of Linear Butenes on Zeolite-Supported Ni²⁺. ACS Catalysis, 2019, 9, 315-324.	5.5	50
87	Kinetic Coupling of Water Splitting and Photoreforming on SrTiO₃-Based Photocatalysts. ACS Catalysis, 2018, 8, 2902-2913.	5.5	36
88	Lewisâ€“BrÃ¸nsted Acid Pairs in Ga/H-ZSM-5 To Catalyze Dehydrogenation of Light Alkanes. Journal of the American Chemical Society, 2018, 140, 4849-4859.	6.6	198
89	In Situ Monitoring the Uptake of Moisture into Hybrid Perovskite Thin Films. Journal of Physical Chemistry Letters, 2018, 9, 2015-2021.	2.1	58
90	Hydrogenation of benzaldehyde via electrocatalysis and thermal catalysis on carbon-supported metals. Journal of Catalysis, 2018, 359, 68-75.	3.1	116

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91	Solvent-determined mechanistic pathways in zeolite-H-BEA-catalysed phenol alkylation. Nature Catalysis, 2018, 1, 141-147.	16.1	85
92	Palladiumâ€Catalyzed Reductive Insertion of Alcohols into Aryl Ether Bonds. Angewandte Chemie - International Edition, 2018, 57, 3747-3751.	7.2	27
93	Palladiumâ€Catalyzed Reductive Insertion of Alcohols into Aryl Ether Bonds. Angewandte Chemie, 2018, 130, 3809-3813.	1.6	11
94	Elementary Steps of Faujasite Formation Followed by in Situ Spectroscopy. Chemistry of Materials, 2018, 30, 888-897.	3.2	29
95	Ni₃P as a high-performance catalytic phase for the hydrodeoxygenation of phenolic compounds. Green Chemistry, 2018, 20, 609-619.	4.6	86
96	Sinterâ€Resistant Platinum Catalyst Supported by Metalâ€“Organic Framework. Angewandte Chemie - International Edition, 2018, 57, 909-913.	7.2	88
97	Carbon-supported Pt during aqueous phenol hydrogenation with and without applied electrical potential: X-ray absorption and theoretical studies of structure and adsorbates. Journal of Catalysis, 2018, 368, 8-19.	3.1	49
98	Active Sites on Nickelâ€Promoted Transitionâ€Metal Sulfides That Catalyze Hydrogenation of Aromatic Compounds. Angewandte Chemie, 2018, 130, 14763-14767.	1.6	2
99	Exceptional Fluorocarbon Uptake with Mesoporous Metalâ€“Organic Frameworks for Adsorption-Based Cooling Systems. ACS Applied Energy Materials, 2018, 1, 5853-5858.	2.5	35
100	Well-Defined Rhodiumâ€“Gallium Catalytic Sites in a Metalâ€“Organic Framework: Promoter-Controlled Selectivity in Alkyne Semihydrogenation to <i>E</i>-Alkenes. Journal of the American Chemical Society, 2018, 140, 15309-15318.	6.6	88
101	Active Sites on Nickelâ€Promoted Transitionâ€Metal Sulfides That Catalyze Hydrogenation of Aromatic Compounds. Angewandte Chemie - International Edition, 2018, 57, 14555-14559.	7.2	32
102	A nitrogen-doped PtSn nanocatalyst supported on hollow silica spheres for acetic acid hydrogenation. Chemical Communications, 2018, 54, 8818-8821.	2.2	19
103	Impact of structural defects and hydronium ion concentration on the stability of zeolite BEA in aqueous phase. Applied Catalysis B: Environmental, 2018, 237, 996-1002.	10.8	29
104	Rh(CAAC)-Catalyzed Arene Hydrogenation: Evidence for Nanocatalysis and Sterically Controlled Site-Selective Hydrogenation. ACS Catalysis, 2018, 8, 8441-8449.	5.5	94
105	Hydrolysis of zeolite framework aluminum and its impact on acid catalyzed alkane reactions. Journal of Catalysis, 2018, 365, 359-366.	3.1	47
106	Aqueous Phase Hydrodeoxygenation of Phenol over Ni₃P-CePO₄ Catalysts. Industrial & Engineering Chemistry Research, 2018, 57, 10216-10225.	1.8	36
107	Overcoming Thermodynamic Limitations in Dimethyl Carbonate Synthesis from Methanol and CO2. Catalysis Letters, 2018, 148, 1914-1919.	1.4	22
108	The Merits of In situ Environmental STEM for the Study of Complex Oxide Catalysts at Work. Microscopy and Microanalysis, 2018, 24, 238-239.	0.2	2

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109	Sinterâ€Resistant Platinum Catalyst Supported by Metalâ€“Organic Framework. Angewandte Chemie, 2018, 130, 921-925.	1.6	3
110	Palladiumâ€Catalyzed Hydrolytic Cleavage of Aromatic Câˆ'O Bonds. Angewandte Chemie - International Edition, 2017, 56, 2110-2114.	7.2	89
111	Palladiumâ€Catalyzed Hydrolytic Cleavage of Aromatic Câˆ'O Bonds. Angewandte Chemie, 2017, 129, 2142-2146.	1.6	71
112	Atomic Layer Deposition in a Metalâ€“Organic Framework: Synthesis, Characterization, and Performance of a Solid Acid. Chemistry of Materials, 2017, 29, 1058-1068.	3.2	45
113	Enhancing the catalytic activity of hydronium ions through constrained environments. Nature Communications, 2017, 8, 14113.	5.8	94
114	Mechanism of Phenol Alkylation in Zeolite H-BEA Using In Situ Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2017, 139, 9178-9185.	6.6	56
115	Impact of Ni promotion on the hydrogenation pathways of phenanthrene on MoS2/Î³-Al2O3. Journal of Catalysis, 2017, 352, 171-181.	3.1	38
116	Role of Spatial Constraints of BrÃ¸nsted Acid Sites for Adsorption and Surface Reactions of Linear Pentenes. Journal of the American Chemical Society, 2017, 139, 8646-8652.	6.6	31
117	Tailoring nanoscopic confines to maximize catalytic activity of hydronium ions. Nature Communications, 2017, 8, 15442.	5.8	51
118	²⁷Al MAS NMR Studies of HBEA Zeolite at Low to High Magnetic Fields. Journal of Physical Chemistry C, 2017, 121, 12849-12854.	1.5	37
119	Simultaneous hydrodenitrogenation and hydrodesulfurization on unsupported Ni-Mo-W sulfides. Catalysis Today, 2017, 297, 344-355.	2.2	35
120	Methane Oxidation to Methanol Catalyzed by Cu-Oxo Clusters Stabilized in NU-1000 Metalâ€“Organic Framework. Journal of the American Chemical Society, 2017, 139, 10294-10301.	6.6	282
121	Overcoming the Rate-Limiting Reaction during Photoreforming of Sugar Aldoses for H₂-Generation. ACS Catalysis, 2017, 7, 3236-3244.	5.5	34
122	Methanol thiolation over Al2O3 and WS2 catalysts modified with cesium. Journal of Catalysis, 2017, 345, 308-318.	3.1	23
123	Carbonâ€“Carbon Bond Scission Pathways in the Deoxygenation of Fatty Acids on Transition-Metal Sulfides. ACS Catalysis, 2017, 7, 1068-1076.	5.5	44
124	Hydronium-Ion-Catalyzed Elimination Pathways of Substituted Cyclohexanols in Zeolite H-ZSM5. ACS Catalysis, 2017, 7, 7822-7829.	5.5	22
125	Tracking the Chemical Transformations at the BrÃ¸nsted Acid Site upon Water-Induced Deprotonation in a Zeolite Pore. Chemistry of Materials, 2017, 29, 9030-9042.	3.2	71
126	On the role of the alkali cations on methanol thiolation. Catalysis Science and Technology, 2017, 7, 4437-4443.	2.1	14

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127	Formation of Oxygen Radical Sites on MoVNbTeOx by Cooperative Electron Redistribution. Journal of the American Chemical Society, 2017, 139, 12342-12345.	6.6	41
128	Deoxygenation of Palmitic Acid on Unsupported Transition-Metal Phosphides. ACS Catalysis, 2017, 7, 6331-6341.	5.5	83
129	Stability of Zeolites in Aqueous Phase Reactions. Chemistry of Materials, 2017, 29, 7255-7262.	3.2	55
130	Aqueous phase hydrogenation of phenol catalyzed by Pd and PdAg on ZrO2. Applied Catalysis A: General, 2017, 548, 128-135.	2.2	24
131	Design of stable Ni/ZrO2 catalysts for dry reforming of methane. Journal of Catalysis, 2017, 356, 147-156.	3.1	81
132	Elementary steps and reaction pathways in the aqueous phase alkylation of phenol with ethanol. Journal of Catalysis, 2017, 352, 329-336.	3.1	40
133	Bridging Zirconia Nodes within a Metalâ€“Organic Framework via Catalytic Ni-Hydroxo Clusters to Form Heterobimetallic Nanowires. Journal of the American Chemical Society, 2017, 139, 10410-10418.	6.6	74
134	Towards Understanding Structureâ€“Activity Relationships of Niâ€“Moâ€“W Sulfide Hydrotreating Catalysts. ChemCatChem, 2017, 9, 629-641.	1.8	19
135	Controlling Hydrodeoxygenation of Stearic Acid to <i>n</i>â€Heptadecane and <i>n</i>â€Octadecane by Adjusting the Chemical Properties of Ni/SiO₂â€“ZrO₂ Catalyst. ChemCatChem, 2017, 9, 195-203.	1.8	53
136	Mechanistic insights into aqueous phase propanol dehydration in Hâ€ZSMâ€5 zeolite. AIChE Journal, 2017, 63, 172-184.	1.8	49
137	Enhanced Activity in Methane Dry Reforming by Carbon Dioxide Induced Metalâ€Oxide Interface Restructuring of Nickel/Zirconia. ChemCatChem, 2017, 9, 3809-3813.	1.8	23
138	Bent Carbon Surface Moieties as Active Sites on Carbon Catalysts for Phosgene Synthesis. Angewandte Chemie, 2016, 128, 1760-1764.	1.6	5
139	Bent Carbon Surface Moieties as Active Sites on Carbon Catalysts for Phosgene Synthesis. Angewandte Chemie - International Edition, 2016, 55, 1728-1732.	7.2	23
140	Atomicâ€Scale Determination of Active Facets on the MoVTeNb Oxide M1 Phase and Their Intrinsic Catalytic Activity for Ethane Oxidative Dehydrogenation. Angewandte Chemie - International Edition, 2016, 55, 8873-8877.	7.2	59
141	Innentitelbild: Atomic-Scale Determination of Active Facets on the MoVTeNb Oxide M1 Phase and Their Intrinsic Catalytic Activity for Ethane Oxidative Dehydrogenation (Angew. Chem. 31/2016). Angewandte Chemie, 2016, 128, 8914-8914.	1.6	0
142	Formation Mechanism of the First Carbonâ€“Carbon Bond and the First Olefin in the Methanol Conversion into Hydrocarbons. Angewandte Chemie, 2016, 128, 5817-5820.	1.6	55
143	Revealing the Working Active Sites of M1 phase for Ethane Oxidation. Microscopy and Microanalysis, 2016, 22, 790-791.	0.2	1
144	Stability and reactivity of copper oxo-clusters in ZSM-5 zeolite for selective methane oxidation to methanol. Journal of Catalysis, 2016, 338, 305-312.	3.1	217

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145	Impact of solvents and surfactants on the self-assembly of nanostructured amine functionalized silica spheres for CO2 capture. Journal of Energy Chemistry, 2016, 25, 327-335.	7.1	20
146	Anharmonicity and Confinement in Zeolites: Structure, Spectroscopy, and Adsorption Free Energy of Ethanol in H-ZSM-5. Journal of Physical Chemistry C, 2016, 120, 7172-7182.	1.5	77
147	Catalytic routes and oxidation mechanisms in photoreforming of polyols. Journal of Catalysis, 2016, 344, 806-816.	3.1	65
148	Electrocatalytic Hydrogenation of Phenol over Platinum and Rhodium: Unexpected Temperature Effects Resolved. ACS Catalysis, 2016, 6, 7466-7470.	5.5	86
149	Hydrodeoxygenation of fatty acid esters catalyzed by Ni on nano-sized MFI type zeolites. Catalysis Science and Technology, 2016, 6, 7976-7984.	2.1	49
150	Effect of Location and Distribution of Al Sites in ZSM-5 on the Formation of Cu-Oxo Clusters Active for Direct Conversion of Methane to Methanol. Topics in Catalysis, 2016, 59, 1554-1563.	1.3	71
151	Nitrogen Modified Carbon Nano-Materials as Stable Catalysts for Phosgene Synthesis. ACS Catalysis, 2016, 6, 5843-5855.	5.5	36
152	Interaction of alkali acetates with silica supported PdAu. Catalysis Science and Technology, 2016, 6, 7203-7211.	2.1	9
153	Hydrogen Transfer Pathways during Zeolite Catalyzed Methanol Conversion to Hydrocarbons. Journal of the American Chemical Society, 2016, 138, 15994-16003.	6.6	265
154	Integrated catalytic and electrocatalytic conversion of substituted phenols and diaryl ethers. Journal of Catalysis, 2016, 344, 263-272.	3.1	73
155	Enabling Overall Water Splitting on Photocatalysts by CO-Covered Noble Metal Co-catalysts. Journal of Physical Chemistry Letters, 2016, 7, 4358-4362.	2.1	32
156	Formation Mechanism of the First Carbonâ€"Carbon Bond and the First Olefin in the Methanol Conversion into Hydrocarbons. Angewandte Chemie - International Edition, 2016, 55, 5723-5726.	7.2	154
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