

Johannes A Lercher

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.

586
papers

28,186
citations

82
h-index

134
g-index

633
ext. papers

31,230
ext. citations

7.8
avg, IF

7.38
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 586 | Pellet Size-Induced Increase in Catalyst Stability and Yield in Zeolite-Catalyzed 2-Butene/Isobutane Alkylation. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 330-338 | 3.9 | 0 |
| 585 | Enhanced catalytic performance of palladium nanoparticles in MOFs by channel engineering. <i>Cell Reports Physical Science</i> , 2022 , 3, 100757 | 6.1 | 0 |
| 584 | Mechanistic differences between methanol and dimethyl ether in zeolite-catalyzed hydrocarbon synthesis.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, | 11.5 | 3 |
| 583 | Di- and Tetrameric Molybdenum Sulfide Clusters Activate and Stabilize Dihydrogen as Hydrides.. <i>Jacs Au</i> , 2022 , 2, 613-622 | | |
| 582 | Critical role of solvent-modulated hydrogen-binding strength in the catalytic hydrogenation of benzaldehyde on palladium. <i>Nature Catalysis</i> , 2021 , 4, 976-985 | 36.5 | 4 |
| 581 | On the Mechanism of Catalytic Decarboxylation of Carboxylic Acids on Carbon-Supported Palladium Hydride. <i>ACS Catalysis</i> , 2021 , 11, 14625-14634 | 13.1 | 2 |
| 580 | Site Densities, Rates, and Mechanism of Stable Ni/UiO-66 Ethylene Oligomerization Catalysts. <i>Journal of the American Chemical Society</i> , 2021 , 143, 20274-20280 | 16.4 | 10 |
| 579 | Impact of the Local Concentration of Hydronium Ions at Tungstate Surfaces for Acid-Catalyzed Alcohol Dehydration. <i>Journal of the American Chemical Society</i> , 2021 , 143, 20133-20143 | 16.4 | 1 |
| 578 | Rate enhancement of phenol hydrogenation on Pt by hydronium ions in the aqueous phase. <i>Journal of Catalysis</i> , 2021 , 404, 579-579 | 7.3 | 2 |
| 577 | Rücktitelbild: Influence of Intracrystalline Ionic Strength in MFI Zeolites on Aqueous Phase Dehydration of Methylcyclohexanols (Angew. Chem. 47/2021). <i>Angewandte Chemie</i> , 2021 , 133, 25368 | 3.6 | |
| 576 | Zeolite-Stabilized Di- and Tetranuclear Molybdenum Sulfide Clusters Form Stable Catalytic Hydrogenation Sites. <i>Angewandte Chemie</i> , 2021 , 133, 9387-9391 | 3.6 | |
| 575 | Toward quantification of active sites and site-specific activity for polyaromatics hydrogenation on transition metal sulfides. <i>Journal of Catalysis</i> , 2021 , | 7.3 | 4 |
| 574 | Zeolite-Stabilized Di- and Tetranuclear Molybdenum Sulfide Clusters Form Stable Catalytic Hydrogenation Sites. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 9301-9305 | 16.4 | 6 |
| 573 | Environment of Metal-O-Fe Bonds Enabling High Activity in CO Reduction on Single Metal Atoms and on Supported Nanoparticles. <i>Journal of the American Chemical Society</i> , 2021 , 143, 5540-5549 | 16.4 | 16 |
| 572 | Confinement effects and acid strength in zeolites. <i>Nature Communications</i> , 2021 , 12, 2630 | 17.4 | 29 |
| 571 | Role of the ionic environment in enhancing the activity of reacting molecules in zeolite pores. <i>Science</i> , 2021 , 372, 952-957 | 33.3 | 27 |
| 570 | Ni/CeO ₂ promoted Ru and Pt supported on FeCrAl gauze for cycling methane catalytic partial oxidation \square POX. <i>Applied Catalysis B: Environmental</i> , 2021 , 286, 119849 | 21.8 | 9 |

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| 569 | Directing the Rate-Enhancement for Hydronium Ion Catalyzed Dehydration via Organization of Alkanols in Nanoscopic Confinements. <i>Angewandte Chemie</i> , 2021 , 133, 2334-2341 | 3.6 | 0 |
| 568 | Alkylation of lignin-derived aromatic oxygenates with cyclic alcohols on acidic zeolites. <i>Applied Catalysis B: Environmental</i> , 2021 , 281, 119424 | 21.8 | 4 |
| 567 | Hydrogen Bonding Enhances the Electrochemical Hydrogenation of Benzaldehyde in the Aqueous Phase. <i>Angewandte Chemie</i> , 2021 , 133, 294-300 | 3.6 | 2 |
| 566 | Hydrogen Bonding Enhances the Electrochemical Hydrogenation of Benzaldehyde in the Aqueous Phase. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 290-296 | 16.4 | 12 |
| 565 | Directing the Rate-Enhancement for Hydronium Ion Catalyzed Dehydration via Organization of Alkanols in Nanoscopic Confinements. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 2304-2311 | 16.4 | 7 |
| 564 | Differences in Mechanism and Rate of Zeolite-Catalyzed Cyclohexanol Dehydration in Apolar and Aqueous Phase. <i>ACS Catalysis</i> , 2021 , 11, 2879-2888 | 13.1 | 8 |
| 563 | Activity of Cu-Al-Oxo Extra-Framework Clusters for Selective Methane Oxidation on Cu-Exchanged Zeolites. <i>Jacs Au</i> , 2021 , 1, 1412-1421 | | 7 |
| 562 | Influence of Intracrystalline Ionic Strength in MFI Zeolites on Aqueous Phase Dehydration of Methylcyclohexanols. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 24806-24810 | 16.4 | 1 |
| 561 | Electronic impact of Ni ₂ P nanoparticle size on hydrogenation rates. <i>Journal of Catalysis</i> , 2021 , 401, 129-136 | 13.6 | 2 |
| 560 | Conversion of CO ₂ to methanol over bifunctional basic-metallic catalysts. <i>Catalysis Communications</i> , 2021 , 159, 106347 | 3.2 | 1 |
| 559 | Surface Effects Determining Transport in Binary Xylene Mixtures. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 26814-26820 | 3.8 | 1 |
| 558 | Rate Enhancement of Acid-Catalyzed Alcohol Dehydration by Supramolecular Organic Capsules. <i>ACS Catalysis</i> , 2020 , 10, 13371-13376 | 13.1 | 6 |
| 557 | Enhancing hydrogenation activity of Ni-Mo sulfide hydrodesulfurization catalysts. <i>Science Advances</i> , 2020 , 6, eaax5331 | 14.3 | 18 |
| 556 | Importance of Methane Chemical Potential for Its Conversion to Methanol on Cu-exchanged Mordenite. <i>Chemistry - A European Journal</i> , 2020 , 26, 7515 | 4.8 | 1 |
| 555 | FeCrAl as a Catalyst Support. <i>Chemical Reviews</i> , 2020 , 120, 7516-7550 | 68.1 | 25 |
| 554 | Influence of Acid Sites on Xylene Transport in MFI Type Zeolites. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 4134-4140 | 3.8 | 3 |
| 553 | Magnesium-Aluminum Mixed Oxides as Basic Catalysts for the Synthesis of Methanethiol. <i>Catalysis Letters</i> , 2020 , 150, 2304-2308 | 2.8 | 1 |
| 552 | Importance of Methane Chemical Potential for Its Conversion to Methanol on Cu-Exchanged Mordenite. <i>Chemistry - A European Journal</i> , 2020 , 26, 7563-7567 | 4.8 | 17 |

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|-----|---|------|----|
| 551 | Aqueous phase catalytic and electrocatalytic hydrogenation of phenol and benzaldehyde over platinum group metals. <i>Journal of Catalysis</i> , 2020 , 382, 372-384 | 7.3 | 32 |
| 550 | Roles of Cu ⁺ and Cu ⁰ sites in liquid-phase hydrogenation of esters on core-shell CuZn _x @C catalysts. <i>Applied Catalysis B: Environmental</i> , 2020 , 267, 118698 | 21.8 | 29 |
| 549 | Impact of Alkali and Alkali-Earth Cations on Ni-Catalyzed Dimerization of Butene. <i>ChemCatChem</i> , 2020 , 12, 3705-3711 | 5.2 | 6 |
| 548 | The Critical Role of Reductive Steps in the Nickel-Catalyzed Hydrogenolysis and Hydrolysis of Aryl Ether C-O Bonds. <i>Angewandte Chemie</i> , 2020 , 132, 1461-1465 | 3.6 | 4 |
| 547 | On the multifaceted roles of NiS _x in hydrodearomatization reactions catalyzed by unsupported Ni-promoted MoS ₂ . <i>Journal of Catalysis</i> , 2020 , 391, 212-223 | 7.3 | 4 |
| 546 | Single-event kinetic model for methanol-to-olefins (MTO) over ZSM-5: Fundamental kinetics for the olefin co-feed reactivity. <i>Chemical Engineering Journal</i> , 2020 , 402, 126023 | 14.7 | 8 |
| 545 | Copper-zirconia interfaces in UiO-66 enable selective catalytic hydrogenation of CO to methanol. <i>Nature Communications</i> , 2020 , 11, 5849 | 17.4 | 30 |
| 544 | On the Promoting Effects of Te and Nb in the Activity and Selectivity of M1 MoV-Oxides for Ethane Oxidative Dehydrogenation. <i>Topics in Catalysis</i> , 2020 , 63, 1754-1764 | 2.3 | 2 |
| 543 | Towards understanding and predicting the hydronium ion catalyzed dehydration of cyclic-primary, secondary and tertiary alcohols. <i>Journal of Catalysis</i> , 2020 , 390, 237-243 | 7.3 | 4 |
| 542 | Electrocatalytic Hydrogenation of Biomass-Derived Organics: A Review. <i>Chemical Reviews</i> , 2020 , 120, 11370-11419 | 68.1 | 62 |
| 541 | Intrinsic kinetic model for oxidative dehydrogenation of ethane over MoVTenb mixed metal oxides: A mechanistic approach. <i>Chemical Engineering Journal</i> , 2020 , 383, 123195 | 14.7 | 13 |
| 540 | Electrochemically Tunable Proton-Coupled Electron Transfer in Pd-Catalyzed Benzaldehyde Hydrogenation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 1501-1505 | 16.4 | 21 |
| 539 | Electrochemically Tunable Proton-Coupled Electron Transfer in Pd-Catalyzed Benzaldehyde Hydrogenation. <i>Angewandte Chemie</i> , 2020 , 132, 1517-1521 | 3.6 | 10 |
| 538 | The Critical Role of Reductive Steps in the Nickel-Catalyzed Hydrogenolysis and Hydrolysis of Aryl Ether C-O Bonds. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 1445-1449 | 16.4 | 20 |
| 537 | Development of photochemical and electrochemical cells for X-ray absorption spectroscopy during photocatalytic and electrocatalytic reactions. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 18891-18901 | 3.6 | 5 |
| 536 | Maximizing Active Site Concentrations at Ni-Substituted WS Edges for Hydrogenation of Aromatic Molecules. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5617-5622 | 6.4 | 2 |
| 535 | Cesium Induced Changes in the Acid-Base Properties of Metal Oxides and the Consequences for Methanol Thiolation. <i>ACS Catalysis</i> , 2019 , 9, 9245-9252 | 13.1 | 9 |
| 534 | Design and synthesis of highly active MoVTenb-oxides for ethane oxidative dehydrogenation. <i>Nature Communications</i> , 2019 , 10, 4012 | 17.4 | 32 |

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| 533 | Effects of Local Water Concentrations on Cyclohexanol Dehydration in H-BEA Zeolites. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 25255-25266 | 3.8 | 22 |
| 532 | The role of weak Lewis acid sites for methanol thiolation. <i>Catalysis Science and Technology</i> , 2019 , 9, 509-516 | 5.6 | 11 |
| 531 | Genesis and Stability of Hydronium Ions in Zeolite Channels. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3444-3455 | 16.4 | 74 |
| 530 | Promotion of protolytic pentane conversion on H-MFI zeolite by proximity of extra-framework aluminum oxide and Brønsted acid sites. <i>Journal of Catalysis</i> , 2019 , 370, 424-433 | 7.3 | 24 |
| 529 | Quantifying Adsorption of Organic Molecules on Platinum in Aqueous Phase by Hydrogen Site Blocking and in Situ X-ray Absorption Spectroscopy. <i>ACS Catalysis</i> , 2019 , 9, 6869-6881 | 13.1 | 26 |
| 528 | Selective Methane Oxidation to Methanol on Cu-Oxo Dimers Stabilized by Zirconia Nodes of an NU-1000 Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9292-9304 | 16.4 | 66 |
| 527 | The synergistic effect between Ni sites and Ni-Fe alloy sites on hydrodeoxygenation of lignin-derived phenols. <i>Applied Catalysis B: Environmental</i> , 2019 , 253, 348-358 | 21.8 | 75 |
| 526 | On the role of co-cations in nickel exchanged LTA zeolite for butene dimerization. <i>Microporous and Mesoporous Materials</i> , 2019 , 284, 241-246 | 5.3 | 7 |
| 525 | Formation of Active Cu-oxo Clusters for Methane Oxidation in Cu-Exchanged Mordenite. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 8759-8769 | 3.8 | 33 |
| 524 | Catalytic Decomposition of the Oleaginous Yeast <i>Cutaneotrichosporon oleaginosus</i> and Subsequent Biocatalytic Conversion of Liberated Free Fatty Acids. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 6531-6540 | 8.3 | 2 |
| 523 | Operando XAFS Studies on Rh(CAAC)-Catalyzed Arene Hydrogenation. <i>ACS Catalysis</i> , 2019 , 9, 4106-4114 | 13.1 | 25 |
| 522 | Rate enhancement by Cu in Ni _x Cu _{1-x} /ZrO ₂ bimetallic catalysts for hydrodeoxygenation of stearic acid. <i>Catalysis Science and Technology</i> , 2019 , 9, 2620-2629 | 5.5 | 8 |
| 521 | Critical role of formaldehyde during methanol conversion to hydrocarbons. <i>Nature Communications</i> , 2019 , 10, 1462 | 17.4 | 61 |
| 520 | Hydrodeoxygenation of phenolic compounds to cycloalkanes over supported nickel phosphides. <i>Catalysis Today</i> , 2019 , 319, 48-56 | 5.3 | 27 |
| 519 | On the enhanced catalytic activity of acid-treated, trimetallic Ni-Mo-W sulfides for quinoline hydrodenitrogenation. <i>Journal of Catalysis</i> , 2019 , 380, 332-342 | 7.3 | 12 |
| 518 | Influence of Hydronium Ions in Zeolites on Sorption. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 3450-3455 | 16.4 | 56 |
| 517 | The Nature of Hydrogen Adsorption on Platinum in the Aqueous Phase. <i>Angewandte Chemie</i> , 2019 , 131, 3565-3570 | 3.6 | 2 |
| 516 | Impact of pH on Aqueous-Phase Phenol Hydrogenation Catalyzed by Carbon-Supported Pt and Rh. <i>ACS Catalysis</i> , 2019 , 9, 1120-1128 | 13.1 | 36 |

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| 515 | The Nature of Hydrogen Adsorption on Platinum in the Aqueous Phase. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 3527-3532 | 16.4 | 43 |
| 514 | Structure Sensitivity in Hydrogenation Reactions on Pt/C in Aqueous-phase. <i>ChemCatChem</i> , 2019 , 11, 575-582 | 5.2 | 28 |
| 513 | Influence of Hydronium Ions in Zeolites on Sorption. <i>Angewandte Chemie</i> , 2019 , 131, 3488-3493 | 3.6 | 9 |
| 512 | Understanding Elementary Steps of Transport of Xylene Mixtures in ZSM-5 Zeolites. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 8092-8100 | 3.8 | 9 |
| 511 | Dimerization of Linear Butenes on Zeolite-Supported Ni ²⁺ . <i>ACS Catalysis</i> , 2019 , 9, 315-324 | 13.1 | 31 |
| 510 | Kinetic Coupling of Water Splitting and Photoreforming on SrTiO ₃ -Based Photocatalysts. <i>ACS Catalysis</i> , 2018 , 8, 2902-2913 | 13.1 | 21 |
| 509 | Lewis-Brønsted Acid Pairs in Ga/H-ZSM-5 To Catalyze Dehydrogenation of Light Alkanes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4849-4859 | 16.4 | 131 |
| 508 | In Situ Monitoring the Uptake of Moisture into Hybrid Perovskite Thin Films. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 2015-2021 | 6.4 | 41 |
| 507 | Hydrogenation of benzaldehyde via electrocatalysis and thermal catalysis on carbon-supported metals. <i>Journal of Catalysis</i> , 2018 , 359, 68-75 | 7.3 | 77 |
| 506 | Solvent-determined mechanistic pathways in zeolite-H-BEA-catalysed phenol alkylation. <i>Nature Catalysis</i> , 2018 , 1, 141-147 | 36.5 | 53 |
| 505 | Palladium-Catalyzed Reductive Insertion of Alcohols into Aryl Ether Bonds. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3747-3751 | 16.4 | 18 |
| 504 | Palladium-Catalyzed Reductive Insertion of Alcohols into Aryl Ether Bonds. <i>Angewandte Chemie</i> , 2018 , 130, 3809-3813 | 3.6 | 6 |
| 503 | Elementary Steps of Faujasite Formation Followed by in Situ Spectroscopy. <i>Chemistry of Materials</i> , 2018 , 30, 888-897 | 9.6 | 21 |
| 502 | Ni ₃ P as a high-performance catalytic phase for the hydrodeoxygenation of phenolic compounds. <i>Green Chemistry</i> , 2018 , 20, 609-619 | 10 | 58 |
| 501 | Rh(CAAC)-Catalyzed Arene Hydrogenation: Evidence for Nanocatalysis and Sterically Controlled Site-Selective Hydrogenation. <i>ACS Catalysis</i> , 2018 , 8, 8441-8449 | 13.1 | 60 |
| 500 | Hydrolysis of zeolite framework aluminum and its impact on acid catalyzed alkane reactions. <i>Journal of Catalysis</i> , 2018 , 365, 359-366 | 7.3 | 33 |
| 499 | Aqueous Phase Hydrodeoxygenation of Phenol over Ni ₃ P-CePO ₄ Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 10216-10225 | 3.9 | 29 |
| 498 | Overcoming Thermodynamic Limitations in Dimethyl Carbonate Synthesis from Methanol and CO ₂ . <i>Catalysis Letters</i> , 2018 , 148, 1914-1919 | 2.8 | 15 |

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|-----|---|------|----|
| 497 | The Merits of In situ Environmental STEM for the Study of Complex Oxide Catalysts at Work. <i>Microscopy and Microanalysis</i> , 2018 , 24, 238-239 | 0.5 | 1 |
| 496 | Sinter-Resistant Platinum Catalyst Supported by Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 909-913 | 16.4 | 70 |
| 495 | Oxidative Functionalization of Methane on Heterogeneous Catalysts 2018 , 141-157 | | 2 |
| 494 | Carbon-supported Pt during aqueous phenol hydrogenation with and without applied electrical potential: X-ray absorption and theoretical studies of structure and adsorbates. <i>Journal of Catalysis</i> , 2018 , 368, 8-19 | 7.3 | 39 |
| 493 | Active Sites on Nickel-Promoted Transition-Metal Sulfides That Catalyze Hydrogenation of Aromatic Compounds. <i>Angewandte Chemie</i> , 2018 , 130, 14763-14767 | 3.6 | 1 |
| 492 | Exceptional Fluorocarbon Uptake with Mesoporous Metal-Organic Frameworks for Adsorption-Based Cooling Systems. <i>ACS Applied Energy Materials</i> , 2018 , 1, 5853-5858 | 6.1 | 25 |
| 491 | Well-Defined Rhodium-Gallium Catalytic Sites in a Metal-Organic Framework: Promoter-Controlled Selectivity in Alkyne Semihydrogenation to E-Alkenes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15309-15318 | 16.4 | 56 |
| 490 | Active Sites on Nickel-Promoted Transition-Metal Sulfides That Catalyze Hydrogenation of Aromatic Compounds. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 14555-14559 | 16.4 | 25 |
| 489 | A nitrogen-doped PtSn nanocatalyst supported on hollow silica spheres for acetic acid hydrogenation. <i>Chemical Communications</i> , 2018 , 54, 8818-8821 | 5.8 | 14 |
| 488 | Impact of structural defects and hydronium ion concentration on the stability of zeolite BEA in aqueous phase. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 996-1002 | 21.8 | 25 |
| 487 | Sinter-Resistant Platinum Catalyst Supported by Metal-Organic Framework. <i>Angewandte Chemie</i> , 2018 , 130, 921-925 | 3.6 | 2 |
| 486 | Palladium-Catalyzed Hydrolytic Cleavage of Aromatic C-O Bonds. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 2110-2114 | 16.4 | 65 |
| 485 | Palladium-Catalyzed Hydrolytic Cleavage of Aromatic C-C Bonds. <i>Angewandte Chemie</i> , 2017 , 129, 2142-2146 | 16.4 | 16 |
| 484 | Atomic Layer Deposition in a Metal-Organic Framework: Synthesis, Characterization, and Performance of a Solid Acid. <i>Chemistry of Materials</i> , 2017 , 29, 1058-1068 | 9.6 | 35 |
| 483 | Enhancing the catalytic activity of hydronium ions through constrained environments. <i>Nature Communications</i> , 2017 , 8, 14113 | 17.4 | 66 |
| 482 | Mechanism of Phenol Alkylation in Zeolite H-BEA Using In Situ Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9178-9185 | 16.4 | 37 |
| 481 | Impact of Ni promotion on the hydrogenation pathways of phenanthrene on MoS ₂ /Al ₂ O ₃ . <i>Journal of Catalysis</i> , 2017 , 352, 171-181 | 7.3 | 30 |
| 480 | Role of Spatial Constraints of Brønsted Acid Sites for Adsorption and Surface Reactions of Linear Pentenes. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8646-8652 | 16.4 | 15 |

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|-----|---|------|-----|
| 479 | Tailoring nanoscopic confines to maximize catalytic activity of hydronium ions. <i>Nature Communications</i> , 2017 , 8, 15442 | 17.4 | 32 |
| 478 | ²⁷ Al MAS NMR Studies of HBEA Zeolite at Low to High Magnetic Fields. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 12849-12854 | 3.8 | 28 |
| 477 | Simultaneous hydrodenitrogenation and hydrodesulfurization on unsupported Ni-Mo-W sulfides. <i>Catalysis Today</i> , 2017 , 297, 344-355 | 5.3 | 31 |
| 476 | Methane Oxidation to Methanol Catalyzed by Cu-Oxo Clusters Stabilized in NU-1000 Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10294-10301 | 16.4 | 203 |
| 475 | Overcoming the Rate-Limiting Reaction during Photoreforming of Sugar Aldoses for H ₂ -Generation. <i>ACS Catalysis</i> , 2017 , 7, 3236-3244 | 13.1 | 23 |
| 474 | Methanol thiolation over Al ₂ O ₃ and WS ₂ catalysts modified with cesium. <i>Journal of Catalysis</i> , 2017 , 345, 308-318 | 7.3 | 17 |
| 473 | Carbon-Carbon Bond Scission Pathways in the Deoxygenation of Fatty Acids on Transition-Metal Sulfides. <i>ACS Catalysis</i> , 2017 , 7, 1068-1076 | 13.1 | 31 |
| 472 | Hydronium-Ion-Catalyzed Elimination Pathways of Substituted Cyclohexanols in Zeolite H-ZSM5. <i>ACS Catalysis</i> , 2017 , 7, 7822-7829 | 13.1 | 15 |
| 471 | Tracking the Chemical Transformations at the Brønsted Acid Site upon Water-Induced Deprotonation in a Zeolite Pore. <i>Chemistry of Materials</i> , 2017 , 29, 9030-9042 | 9.6 | 48 |
| 470 | On the role of the alkali cations on methanol thiolation. <i>Catalysis Science and Technology</i> , 2017 , 7, 4437-4443 | 5.3 | 11 |
| 469 | Formation of Oxygen Radical Sites on MoVNbTeO _x by Cooperative Electron Redistribution. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12342-12345 | 16.4 | 29 |
| 468 | Deoxygenation of Palmitic Acid on Unsupported Transition-Metal Phosphides. <i>ACS Catalysis</i> , 2017 , 7, 6331-6341 | 13.1 | 52 |
| 467 | Stability of Zeolites in Aqueous Phase Reactions. <i>Chemistry of Materials</i> , 2017 , 29, 7255-7262 | 9.6 | 43 |
| 466 | Aqueous phase hydrogenation of phenol catalyzed by Pd and PdAg on ZrO ₂ . <i>Applied Catalysis A: General</i> , 2017 , 548, 128-135 | 5.1 | 14 |
| 465 | Design of stable Ni/ZrO ₂ catalysts for dry reforming of methane. <i>Journal of Catalysis</i> , 2017 , 356, 147-156 | 7.3 | 51 |
| 464 | Elementary steps and reaction pathways in the aqueous phase alkylation of phenol with ethanol. <i>Journal of Catalysis</i> , 2017 , 352, 329-336 | 7.3 | 29 |
| 463 | Bridging Zirconia Nodes within a Metal-Organic Framework via Catalytic Ni-Hydroxo Clusters to Form Heterobimetallic Nanowires. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10410-10418 | 16.4 | 64 |
| 462 | Towards Understanding Structure-Activity Relationships of NiMoW Sulfide Hydrotreating Catalysts. <i>ChemCatChem</i> , 2017 , 9, 629-641 | 5.2 | 16 |

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|-----|---|------|-----|
| 461 | Controlling Hydrodeoxygenation of Stearic Acid to n-Heptadecane and n-Octadecane by Adjusting the Chemical Properties of Ni/SiO ₂ ZrO ₂ Catalyst. <i>ChemCatChem</i> , 2017 , 9, 195-203 | 5.2 | 33 |
| 460 | Mechanistic insights into aqueous phase propanol dehydration in H-ZSM-5 zeolite. <i>AIChE Journal</i> , 2017 , 63, 172-184 | 3.6 | 32 |
| 459 | Enhanced Activity in Methane Dry Reforming by Carbon Dioxide Induced Metal-Oxide Interface Restructuring of Nickel/Zirconia. <i>ChemCatChem</i> , 2017 , 9, 3809-3813 | 5.2 | 18 |
| 458 | Aqueous phase electrocatalysis and thermal catalysis for the hydrogenation of phenol at mild conditions. <i>Applied Catalysis B: Environmental</i> , 2016 , 182, 236-246 | 21.8 | 72 |
| 457 | Bulk and Al ₂ O ₃ -supported Ni ₂ P and MoP for hydrodeoxygenation of palmitic acid. <i>Applied Catalysis B: Environmental</i> , 2016 , 180, 301-311 | 21.8 | 62 |
| 456 | Hydrodeoxygenation of fatty acid esters catalyzed by Ni on nano-sized MFI type zeolites. <i>Catalysis Science and Technology</i> , 2016 , 6, 7976-7984 | 5.5 | 36 |
| 455 | 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. <i>Topics in Catalysis</i> , 2016 , 59, 1554-1563 | 2.3 | 55 |
| 454 | Nitrogen Modified Carbon Nano-Materials as Stable Catalysts for Phosgene Synthesis. <i>ACS Catalysis</i> , 2016 , 6, 5843-5855 | 13.1 | 28 |
| 453 | Interaction of alkali acetates with silica supported PdAu. <i>Catalysis Science and Technology</i> , 2016 , 6, 7203-7211 | 3.1 | 5 |
| 452 | Hydrogen Transfer Pathways during Zeolite Catalyzed Methanol Conversion to Hydrocarbons. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15994-16003 | 16.4 | 186 |
| 451 | Integrated catalytic and electrocatalytic conversion of substituted phenols and diaryl ethers. <i>Journal of Catalysis</i> , 2016 , 344, 263-272 | 7.3 | 53 |
| 450 | Enabling Overall Water Splitting on Photocatalysts by CO-Covered Noble Metal Co-catalysts. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4358-4362 | 6.4 | 25 |
| 449 | Formation Mechanism of the First Carbon-Carbon Bond and the First Olefin in the Methanol Conversion into Hydrocarbons. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5723-6 | 16.4 | 113 |
| 448 | Atomic-Scale Determination of Active Facets on the MoVTenb Oxide M1 Phase and Their Intrinsic Catalytic Activity for Ethane Oxidative Dehydrogenation. <i>Angewandte Chemie</i> , 2016 , 128, 9019-9023 | 3.6 | 5 |
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