# Weiqing Zheng

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/408894/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 37 papers | 2,419 citations | 279798 23 h-index | 361022 35 g-index |
| 41 all docs | 41 docs citations | 41 times ranked | 3171 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Higher loadings of Pt single atoms and clusters over reducible metal oxides: application to Câ€“O bond activation. Catalysis Science and Technology, 2022, 12, 2920-2928. | 4.1 | 7 |
| 2 | Modulating the dynamics of BrÃ¸nsted acid sites on PtWOx inverse catalyst. Nature Catalysis, 2022, 5, 144-153. | 34.4 | 35 |
| 3 | In Situ Tracking of Nonthermal Plasma Etching of ZIF-8 Films. ACS Applied Materials & Interfaces, 2022, 14, 19023-19030. | 8.0 | 7 |
| 4 | Ethane Dehydrogenation on Single and Dual Centers of Ga-modified Î³-Al<sub>2</sub>O<sub>3</sub>. ACS Catalysis, 2021, 11, 1380-1391. | 11.2 | 30 |
| 5 | Experimental data-driven reaction network identification and uncertainty quantification of CO2-assisted ethane dehydrogenation over Ga2O3/Al2O3. Chemical Engineering Science, 2021, 237, 116534. | 3.8 | 12 |
| 6 | Polyethylene Hydrogenolysis at Mild Conditions over Ruthenium on Tungstated Zirconia. Jacs Au, 2021, 1, 1422-1434. | 7.9 | 95 |
| 7 | Intensified microwave-assisted heterogeneous catalytic reactors for sustainable chemical manufacturing. Chemical Engineering Journal, 2021, 420, 130476. | 12.7 | 24 |
| 8 | Production of renewable oleo-furan surfactants by cross-ketonization of biomass-derived furoic acid and fatty acids. Catalysis Science and Technology, 2021, 11, 2762-2769. | 4.1 | 13 |
| 9 | CO<sub>2</sub>-assisted ethane oxidative dehydrogenation over MoO<sub>x</sub> catalysts supported on reducible CeO<sub>2</sub>â€“TiO<sub>2</sub>. Catalysis Science and Technology, 2021, 11, 5791-5801. | 4.1 | 11 |
| 10 | ZnO nanorod arrays assembled on activated carbon fibers for photocatalytic degradation: Characteristics and synergistic effects. Chemosphere, 2020, 261, 127731. | 8.2 | 26 |
| 11 | Reversible Formation of Silanol Groups in Two-Dimensional Siliceous Nanomaterials under Mild Hydrothermal Conditions. Journal of Physical Chemistry C, 2020, 124, 18045-18053. | 3.1 | 7 |
| 12 | Câ€“O bond activation using ultralow loading of noble metal catalysts on moderately reducible oxides. Nature Catalysis, 2020, 3, 446-453. | 34.4 | 131 |
| 13 | Production of high-yield short-chain oligomers from cellulose via selective hydrolysis in molten salt hydrates and separation. Green Chemistry, 2019, 21, 5030-5038. | 9.0 | 32 |
| 14 | Molybdenum Oxide-Modified Iridium Catalysts for Selective Production of Renewable Oils for Jet and Diesel Fuels and Lubricants. ACS Catalysis, 2019, 9, 7679-7689. | 11.2 | 39 |
| 15 | 110th Anniversary: Kinetics and X-ray Absorption Spectroscopy in Methane Total Oxidation over Alumina-Supported Pt, Pd, and Agâ€“Pd Catalysts. Industrial & Engineering Chemistry Research, 2019, 58, 17718-17726. | 3.7 | 8 |
| 16 | Volcano curves for homologous series reactions: Oxidation of small alkanes. Applied Catalysis A: General, 2019, 587, 117255. | 4.3 | 2 |
| 17 | Molten Salt Hydrates in the Synthesis of TiO<sub>2</sub> Flakes. ACS Omega, 2019, 4, 21302-21310. | 3.5 | 4 |
| 18 | Selective Hydrodeoxygenation of Vegetable Oils and Waste Cooking Oils to Green Diesel Using a Silicaâ€Supported Irâ€“ReO<sub>x</sub> Bimetallic Catalyst. ChemSusChem, 2018, 11, 1446-1454. | 6.8 | 66 |

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|---|---|---|---|
| 19 | Nonâ€oxidative Coupling of Methane to Ethylene Using Mo<sub>2</sub>C/[B]ZSMâ€5. ChemPhysChem, 2018, 19, 504-511. | 2.1 | 38 |
| 20 | Spectroscopic characterization of a highly selective NiCu<sub>3</sub>/C hydrodeoxygenation catalyst. Catalysis Science and Technology, 2018, 8, 6100-6108. | 4.1 | 9 |
| 21 | Process Intensification for Cellulosic Biorefineries. ChemSusChem, 2017, 10, 2566-2572. | 6.8 | 32 |
| 22 | Solventless Câ€“C Coupling of Low Carbon Furanics to High Carbon Fuel Precursors Using an Improved Graphene Oxide Carbocatalyst. ACS Catalysis, 2017, 7, 3905-3915. | 11.2 | 72 |
| 23 | Durable and self-hydrating tungsten carbide-based composite polymer electrolyte membrane fuel cells. Nature Communications, 2017, 8, 418. | 12.8 | 42 |
| 24 | Catalytic Hydrodeoxygenation of High Carbon Furylmethanes to Renewable Jetâ€fuel Ranged Alkanes over a Rheniumâ€Modified Iridium Catalyst. ChemSusChem, 2017, 10, 3225-3234. | 6.8 | 54 |
| 25 | Catalytic Hydrodeoxygenation of High Carbon Furylmethanes to Renewable Jet-fuel Ranged Alkanes over a Rhenium-Modified Iridium Catalyst. ChemSusChem, 2017, 10, 3164-3164. | 6.8 | 0 |
| 26 | Molecular structure, morphology and growth mechanisms and rates of 5-hydroxymethyl furfural (HMF) derived humins. Green Chemistry, 2016, 18, 1983-1993. | 9.0 | 276 |
| 27 | Cellulose Hydrolysis in Acidified LiBr Molten Salt Hydrate Media. Industrial & Engineering Chemistry Research, 2015, 54, 5226-5236. | 3.7 | 63 |
| 28 | The Role of Ru and RuO<sub>2</sub> in the Catalytic Transfer Hydrogenation of 5â€Hydroxymethylfurfural for the Production of 2,5â€Dimethylfuran. ChemCatChem, 2014, 6, 848-856. | 3.7 | 136 |
| 29 | Vapor phase hydrodeoxygenation of furfural to 2-methylfuran on molybdenum carbide catalysts. Catalysis Science and Technology, 2014, 4, 2340. | 4.1 | 132 |
| 30 | Production of Dimethylfuran from Hydroxymethylfurfural through Catalytic Transfer Hydrogenation with Ruthenium Supported on Carbon. ChemSusChem, 2013, 6, 1158-1162. | 6.8 | 247 |
| 31 | Coreâ€“Shell Nanocatalyst Design by Combining Highâ€Throughput Experiments and Firstâ€Principles Simulations. ChemCatChem, 2013, 5, 3712-3718. | 3.7 | 8 |
| 32 | Experimental and Theoretical Investigation of Molybdenum Carbide and Nitride as Catalysts for Ammonia Decomposition. Journal of the American Chemical Society, 2013, 135, 3458-3464. | 13.7 | 216 |
| 33 | Structureâ€“Function Correlations for Ru/CNT in the Catalytic Decomposition of Ammonia. ChemSusChem, 2010, 3, 226-230. | 6.8 | 82 |
| 34 | Effects of CeO2 addition on Ni/Al2O3 catalysts for the reaction of ammonia decomposition to hydrogen. Applied Catalysis B: Environmental, 2008, 80, 98-105. | 20.2 | 169 |
| 35 | Individual Feâ^'Co Alloy Nanoparticles on Carbon Nanotubes: Structural and Catalytic Properties. Nano Letters, 2008, 8, 2738-2743. | 9.1 | 200 |
| 36 | NH3 Decomposition Kinetics on Supported Ru Clusters: Morphology and Particle Size Effect. Catalysis Letters, 2007, 119, 311-318. | 2.6 | 94 |

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|---|---|---|---|
| 37 | Selective Hydrodeoxygenation of Vegetable Oils and Waste Cooking Oils to Green Diesel Using a Silica-Supported Ir-ReO<sub> x </sub> Bimetallic Catalyst. ChemSusChem, 0, , . | 6.8 | 0 |