# Zhenghong Bao

List of Publications by Year
in descending order



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|---|---|---|---|
| 33 papers | 1,663 citations | 257450 24 h-index | 377865 34 g-index |
| 35 all docs | 35 docs citations | 35 times ranked | 1877 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Surface Reconstructions of Metal Oxides and the Consequences on Catalytic Chemistry. ACS Catalysis, 2019, 9, 5692-5707. | 11.2 | 127 |
| 2 | CuFe, CuCo and CuNi nanoparticles as catalysts for higher alcohol synthesis from syngas: a comparative study. Catalysis Science and Technology, 2013, 3, 1591. | 4.1 | 118 |
| 3 | Catalytic Pyrolysis of Biomass and Polymer Wastes. Catalysts, 2018, 8, 659. | 3.5 | 113 |
| 4 | Advances in bifunctional catalysis for higher alcohol synthesis from syngas. Chinese Journal of Catalysis, 2013, 34, 116-129. | 14.0 | 111 |
| 5 | Confined Ni-In intermetallic alloy nanocatalyst with excellent coking resistance for methane dry reforming. Journal of Energy Chemistry, 2022, 65, 34-47. | 12.9 | 96 |
| 6 | Highly active and stable Ni-based bimodal pore catalyst for dry reforming of methane. Applied Catalysis A: General, 2015, 491, 116-126. | 4.3 | 94 |
| 7 | Sandwiched SiO2@Ni@ZrO2 as a coke resistant nanocatalyst for dry reforming of methane. Applied Catalysis B: Environmental, 2019, 254, 612-623. | 20.2 | 92 |
| 8 | Radical Chemistry and Reaction Mechanisms of Propane Oxidative Dehydrogenation over Hexagonal Boron Nitride Catalysts. Angewandte Chemie - International Edition, 2020, 59, 8042-8046. | 13.8 | 83 |
| 9 | Elucidating the Copperâ€“HÃgg Iron Carbide Synergistic Interactions for Selective CO Hydrogenation to Higher Alcohols. ACS Catalysis, 2017, 7, 5500-5512. | 11.2 | 82 |
| 10 | Structural evolution of CuFe bimetallic nanoparticles for higher alcohol synthesis. Journal of Molecular Catalysis A, 2013, 378, 319-325. | 4.8 | 68 |
| 11 | High Selectivity Higher Alcohols Synthesis from Syngas over Threeâ€Dimensionally Ordered Macroporous Cuâ€Fe Catalysts. ChemCatChem, 2014, 6, 473-478. | 3.7 | 64 |
| 12 | Unsupported CuFe bimetallic nanoparticles for higher alcohol synthesis via syngas. Catalysis Communications, 2013, 40, 154-157. | 3.3 | 52 |
| 13 | Effects of Sodium and Tungsten Promoters on Mg<sub>6</sub>MnO<sub>8</sub>-Based Coreâ€“Shell Redox Catalysts for Chemical Loopingâ€"Oxidative Dehydrogenation of Ethane. ACS Catalysis, 2019, 9, 3174-3186. | 11.2 | 52 |
| 14 | <i>In Situ</i> Strong Metalâ€“Support Interaction (SMSI) Affects Catalytic Alcohol Conversion. ACS Catalysis, 2021, 11, 1938-1945. | 11.2 | 50 |
| 15 | Unlocking the Catalytic Potential of TiO<sub>2</sub>-Supported Pt Single Atoms for the Reverse Waterâ€“Gas Shift Reaction by Altering Their Chemical Environment. Jacs Au, 2021, 1, 977-986. | 7.9 | 46 |
| 16 | The water-gas shift reaction for hydrogen production from coke oven gas over Cu/ZnO/Al 2 O 3 catalyst. Catalysis Today, 2016, 263, 46-51. | 4.4 | 41 |
| 17 | Impact of Surface Composition of SrTiO<sub>3</sub> Catalysts for Oxidative Coupling of Methane. ChemCatChem, 2019, 11, 2107-2117. | 3.7 | 41 |
| 18 | Biogas reforming of carbon dioxide to syngas production over Ni-Mg-Al catalysts. Molecular Catalysis, 2017, 436, 248-258. | 2.0 | 39 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | A Review on the Impact of SO<sub>2</sub> on the Oxidation of NO, Hydrocarbons, and CO in Diesel Emission Control Catalysis. ACS Catalysis, 2021, 11, 12446-12468. | 11.2 | 36 |
| 20 | Higher alcohol synthesis over Cu-Fe composite oxides with high selectivity to C2+OH. Journal of Energy Chemistry, 2013, 22, 107-113. | 12.9 | 35 |
| 21 | Effect of Fe/Cu ratio on the activity of Feâ€“Alâ€“Cu catalysts for water gas shift reaction under hydrogen-rich atmosphere. International Journal of Hydrogen Energy, 2012, 37, 951-955. | 7.1 | 30 |
| 22 | A Principle for Highly Active Metal Oxide Catalysts via NaCl-Based Solid Solution. CheM, 2020, 6, 1723-1741. | 11.7 | 30 |
| 23 | The synergistic effect of the structural precursors of Cu/ZnO/Al2O3 catalysts for waterâ€“gas shift reaction. Catalysis Communications, 2011, 12, 505-509. | 3.3 | 29 |
| 24 | Construction of 2D BiVO<sub>4</sub>âˆ'CdSâˆ'Ti<sub>3</sub>C<sub>2</sub>T<sub>x</sub> Heterostructures for Enhanced Photoâ€redox Activities. ChemCatChem, 2020, 12, 3496-3503. | 3.7 | 25 |
| 25 | The interplay between surface facet and reconstruction on isopropanol conversion over SrTiO3 nanocrystals. Journal of Catalysis, 2020, 384, 49-60. | 6.2 | 19 |
| 26 | Alcohol-Induced Low-Temperature Blockage of Supported-Metal Catalysts for Enhanced Catalysis. ACS Catalysis, 2020, 10, 8515-8523. | 11.2 | 18 |
| 27 | Catalytic Cracking of Inedible Oils for the Production of Drop-In Biofuels over a SO<sub>4</sub><sup>2â€“</sup>/TiO<sub>2</sub>-ZrO<sub>2</sub> Catalyst. Energy & Fuels, 2020, 34, 14204-14214. | 5.1 | 16 |
| 28 | Kinetic study of methane reforming with carbon dioxide over NiCeMgAl bimodal pore catalyst. AIChE Journal, 2017, 63, 2019-2029. | 3.6 | 15 |
| 29 | Mesoporous Ni(OH)<sub>2</sub>/CeNi<sub><i>x</i></sub>O<sub><i>y</i></sub> Composites Derived Ni/CeNi<sub><i>x</i></sub>O<sub><i>y</i></sub> Catalysts for Dry Reforming of Methane. ChemCatChem, 2018, 10, 250-258. | 3.7 | 15 |
| 30 | Radical Chemistry and Reaction Mechanisms of Propane Oxidative Dehydrogenation over Hexagonal Boron Nitride Catalysts. Angewandte Chemie, 2020, 132, 8119-8123. | 2.0 | 11 |
| 31 | Ammonia-Assisted Light Alkane Anti-coke Reforming on Isolated ReO<sub><i>x</i></sub> Sites in Zeolite. ACS Catalysis, 2022, 12, 3165-3172. | 11.2 | 6 |
| 32 | Innovative cycling reaction mechanisms of CO2 absorption in amino acid salt solvents. Chemical Engineering Journal Advances, 2022, 10, 100250. | 5.2 | 5 |
| 33 | Titelbild: Radical Chemistry and Reaction Mechanisms of Propane Oxidative Dehydrogenation over Hexagonal Boron Nitride Catalysts (Angew. Chem. 21/2020). Angewandte Chemie, 2020, 132, 8045-8045. | 2.0 | 0 |