

Gaurav Kumar

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

337
citations

933447

10
h-index

996975

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16
all docs

16
docs citations

16
times ranked

308
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Defining the Macromolecules of Tomorrow through Synergistic Sustainable Polymer Research. <i>Chemical Reviews</i> , 2022, 122, 6322-6373. | 47.7 | 99 |
| 2 | Mixing studies in unbaffled stirred tank reactor using electrical resistance tomography. <i>Flow Measurement and Instrumentation</i> , 2016, 47, 110-121. | 2.0 | 44 |
| 3 | Dehydra-Decyclization of Tetrahydrofuran on H-ZSM5: Mechanisms, Pathways, and Transition State Entropy. <i>ACS Catalysis</i> , 2019, 9, 10279-10293. | 11.2 | 27 |
| 4 | Steam-Induced Coarsening of Single-Unit-Cell MFI Zeolite Nanosheets and Its Effect on External Surface Brønsted Acid Catalysis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9579-9585. | 13.8 | 26 |
| 5 | On the Economics and Process Design of Renewable Butadiene from Biomass-Derived Furfural. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 3273-3282. | 6.7 | 22 |
| 6 | Dehydra-decyclization of 2-methyltetrahydrofuran to pentadienes on boron-containing zeolites. <i>Green Chemistry</i> , 2020, 22, 4147-4160. | 9.0 | 22 |
| 7 | Phosphonate-Modified UiO-66 Brønsted Acid Catalyst and Its Use in Dehydra-Decyclization of 2-Methyltetrahydrofuran to Pentadienes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13260-13266. | 13.8 | 21 |
| 8 | Few-Unit-Cell MFI Zeolite Synthesized using a Simple Di-quaternary Ammonium Structure-Directing Agent. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19214-19221. | 13.8 | 19 |
| 9 | Catalysis-in-a-Box: Robotic Screening of Catalytic Materials in the Time of COVID-19 and Beyond. <i>Matter</i> , 2020, 3, 805-823. | 10.0 | 13 |
| 10 | A dual cellular-heterogeneous catalyst strategy for the production of olefins from glucose. <i>Nature Chemistry</i> , 2021, 13, 1178-1185. | 13.6 | 12 |
| 11 | Acid Sites of Phosphorus-Modified Zeosils. <i>ACS Catalysis</i> , 2021, 11, 9933-9948. | 11.2 | 9 |
| 12 | Few-Unit-Cell MFI Zeolite Synthesized using a Simple Di-quaternary Ammonium Structure-Directing Agent. <i>Angewandte Chemie</i> , 2021, 133, 19363-19370. | 2.0 | 8 |
| 13 | On the Spatial Design of Co-Fed Amines for Selective Dehydration of Methyl Lactate to Acrylates. <i>ACS Catalysis</i> , 2021, 11, 5718-5735. | 11.2 | 6 |
| 14 | Steam-Induced Coarsening of Single-Unit-Cell MFI Zeolite Nanosheets and Its Effect on External Surface Brønsted Acid Catalysis. <i>Angewandte Chemie</i> , 2020, 132, 9666-9672. | 2.0 | 5 |
| 15 | Phosphonate-Modified UiO-66 Brønsted Acid Catalyst and Its Use in Dehydra-Decyclization of 2-Methyltetrahydrofuran to Pentadienes. <i>Angewandte Chemie</i> , 2020, 132, 13362-13368. | 2.0 | 4 |