

Mathew John

List of Publications by Year in descending order

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17
papers

551
citations

567144

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887953

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17
docs citations

17
times ranked

663
citing authors

#	ARTICLE	IF	CITATIONS
1	DFT-based microkinetic modeling of ethanol dehydration in H-ZSM-5. <i>Journal of Catalysis</i> , 2016, 339, 173-185.	3.1	69
2	Reaction path analysis for 1-butanol dehydration in H-ZSM-5 zeolite: Ab initio and microkinetic modeling. <i>Journal of Catalysis</i> , 2015, 330, 28-45.	3.1	65
3	First-Principles Kinetic Study on the Effect of the Zeolite Framework on 1-Butanol Dehydration. <i>ACS Catalysis</i> , 2016, 6, 4081-4094.	5.5	44
4	n-Hexadecane hydroisomerization over BTMACl/TEABr/MTEABr templated ZSM-12. <i>Microporous and Mesoporous Materials</i> , 2013, 177, 120-126.	2.2	39
5	Filling Characteristics for an Activated Carbon Based Adsorbed Natural Gas Storage System. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 13000-13011.	1.8	37
6	Hydroisomerization of Long Chain <i>n</i> -Paraffins over Pt/ZSM-22: Influence of Si/Al Ratio. <i>Energy & Fuels</i> , 2015, 29, 1066-1075.	2.5	37
7	Study of butanol conversion to butenes over H-ZSM-5: Effect of chemical structure on activity, selectivity and reaction pathways. <i>Applied Catalysis A: General</i> , 2017, 539, 1-12.	2.2	37
8	Hydroisomerization of n-hexadecane over Pt/ZSM-22 framework: Effect of divalent cation exchange. <i>Journal of Molecular Catalysis A</i> , 2015, 404-405, 47-56.	4.8	36
9	Mechanistic insights into the formation of butene isomers from 1-butanol in H-ZSM-5: DFT based microkinetic modelling. <i>Catalysis Science and Technology</i> , 2017, 7, 1055-1072.	2.1	30
10	Effect of zeolite confinement on the conversion of 1-butanol to butene isomers: mechanistic insights from DFT based microkinetic modelling. <i>Catalysis Science and Technology</i> , 2017, 7, 2978-2997.	2.1	27
11	Low temperature hydrogenation of aromatics over Pt-Pd/SiO ₂ -Al ₂ O ₃ catalyst. <i>Fuel Processing Technology</i> , 2014, 128, 303-309.	3.7	25
12	Influence of exhaust gas heating and L/D ratios on the discharge efficiencies for an activated carbon natural gas storage system. <i>Applied Energy</i> , 2014, 119, 190-203.	5.1	23
13	SAPO-34 assisted C ₃ separation: Modeling and simulation. <i>Microporous and Mesoporous Materials</i> , 2010, 132, 311-318.	2.2	22
14	Hydroisomerization of n-hexadecane over Brønsted acid site tailored Pt/ZSM-12. <i>Journal of Porous Materials</i> , 2014, 21, 849-857.	1.3	19
15	Selective hydroalkylation of benzene over palladium supported Y-Zeolite: Effect of metal acid balance. <i>Molecular Catalysis</i> , 2017, 442, 27-38.	1.0	19
16	n-Hexadecane hydroisomerization over Pt/ZSM-12: role of Si/Al ratio on product distribution. <i>Journal of Porous Materials</i> , 2013, 20, 1023-1029.	1.3	14
17	Hydroisomerization of Biomass Derived n-Hexadecane Towards Diesel Pool: Effect of Selective Removal External Surface Sites from Pt/ZSM-22. <i>International Journal of Chemical Reactor Engineering</i> , 2016, 14, 155-165.	0.6	8