

Michael B Griffin

List of Publications by Year in descending order

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25
papers

837
citations

567281

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642732

23
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26
times ranked

1309
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigating deposition sequence during synthesis of Pd/Al ₂ O ₃ catalysts modified with organic monolayers. <i>Catalysis Science and Technology</i> , 2022, 12, 2306-2314.	4.1	3
2	Deactivation by Potassium Accumulation on a Pt/TiO ₂ Bifunctional Catalyst for Biomass Catalytic Fast Pyrolysis. <i>ACS Catalysis</i> , 2022, 12, 465-480.	11.2	15
3	<i>Ex situ</i> upgrading of pyrolysis vapors over PtTiO ₂ : extraction of apparent kinetics <i>via</i> hierarchical transport modeling. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 125-137.	3.7	11
4	Optimizing Process Conditions during Catalytic Fast Pyrolysis of Pine with Pt/TiO ₂ – Improving the Viability of a Multiple-Fixed-Bed Configuration. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 1235-1245.	6.7	10
5	Organic Modifiers Promote Furfuryl Alcohol Ring Hydrogenation via Surface Hydrogen-Bonding Interactions. <i>ACS Catalysis</i> , 2021, 11, 3730-3739.	11.2	14
6	Atomic Layer Deposition with TiO ₂ for Enhanced Reactivity and Stability of Aromatic Hydrogenation Catalysts. <i>ACS Catalysis</i> , 2021, 11, 8538-8549.	11.2	24
7	Performing <i>In Situ</i> Closed-Cell Gas Reactions in the Transmission Electron Microscope. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	0
8	Practical Aspects of Performing Quantitative EELS Measurements of Gas Compositions in Closed-Cell Gas Reaction S/TEM. <i>Microscopy and Microanalysis</i> , 2021, 27, 796-798.	0.4	0
9	Predicting thermal excursions during <i>in situ</i> oxidative regeneration of packed bed catalytic fast pyrolysis catalyst. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 888-904.	3.7	4
10	<i>Operando</i> S/TEM Reactions of Pt/TiO ₂ Catalysts for Catalytic Fast Pyrolysis. <i>Microscopy and Microanalysis</i> , 2020, 26, 1696-1697.	0.4	2
11	Phosphonic acid modifiers for enhancing selective hydrodeoxygenation over Pt catalysts: The role of the catalyst support. <i>Journal of Catalysis</i> , 2019, 372, 311-320.	6.2	26
12	Enhancing Cooperativity in Bifunctional Acidic Pd Catalysts with Carboxylic Acid-Functionalized Organic Monolayers. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6637-6647.	3.1	22
13	Catalytic upgrading of biomass pyrolysis vapors and model compounds using niobia supported Pd catalyst. <i>Applied Catalysis B: Environmental</i> , 2018, 238, 38-50.	20.2	76
14	Driving towards cost-competitive biofuels through catalytic fast pyrolysis by rethinking catalyst selection and reactor configuration. <i>Energy and Environmental Science</i> , 2018, 11, 2904-2918.	30.8	95
15	Late-Transition-Metal-Modified Î ² -Mo ₂ C Catalysts for Enhanced Hydrogenation during Guaiacol Deoxygenation. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 11433-11439.	6.7	42
16	High-Throughput Continuous Flow Synthesis of Nickel Nanoparticles for the Catalytic Hydrodeoxygenation of Guaiacol. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 632-639.	6.7	50
17	Integrated Biorefining: Coproduction of Renewable Resol Biopolymer for Aqueous Stream Valorization. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 6615-6625.	6.7	19
18	An investigation into support cooperativity for the deoxygenation of guaiacol over nanoparticle Ni and Rh ₂ P. <i>Catalysis Science and Technology</i> , 2017, 7, 2954-2966.	4.1	21

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19	Mixed alcohol dehydration over Brønsted and Lewis acidic catalysts. Applied Catalysis A: General, 2016, 510, 110-124.	4.3	59
20	Role of the Support and Reaction Conditions on the Vapor-Phase Deoxygenation of <i>m</i> -Cresol over Pt/C and Pt/TiO ₂ Catalysts. ACS Catalysis, 2016, 6, 2715-2727.	11.2	123
21	Evaluation of Silica-Supported Metal and Metal Phosphide Nanoparticle Catalysts for the Hydrodeoxygenation of Guaiacol Under Ex Situ Catalytic Fast Pyrolysis Conditions. Topics in Catalysis, 2016, 59, 124-137.	2.8	42
22	The selective oxidation of ethylene glycol and 1,2-propanediol on Au, Pd, and Au-Pd bimetallic catalysts. Journal of Catalysis, 2013, 307, 111-120.	6.2	82
23	Surface Chemistry of 2-Iodoethanol on Pd(111): Orientation of Surface-Bound Alcohol Controls Selectivity. Journal of Physical Chemistry C, 2012, 116, 4201-4208.	3.1	13
24	The adsorption and reaction of ethylene glycol and 1,2-propanediol on Pd(111): A TPD and HREELS study. Surface Science, 2010, 604, 1558-1564.	1.9	36
25	Conformational Changes and Molecular Mobility in Plasticized Proteins. Biomacromolecules, 2008, 9, 3181-3187.	5.4	40