

Michael B Griffin

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

837
citations

567281

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h-index

642732

23
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26
all docs

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docs citations

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times ranked

1309
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | 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 |
| 2 | Driving towards cost-competitive biofuels through catalytic fast pyrolysis by rethinking catalyst selection and reactor configuration. Energy and Environmental Science, 2018, 11, 2904-2918. | 30.8 | 95 |
| 3 | 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 |
| 4 | Catalytic upgrading of biomass pyrolysis vapors and model compounds using niobia supported Pd catalyst. Applied Catalysis B: Environmental, 2018, 238, 38-50. | 20.2 | 76 |
| 5 | Mixed alcohol dehydration over Brønsted and Lewis acidic catalysts. Applied Catalysis A: General, 2016, 510, 110-124. | 4.3 | 59 |
| 6 | High-Throughput Continuous Flow Synthesis of Nickel Nanoparticles for the Catalytic Hydrodeoxygenation of Guaiacol. ACS Sustainable Chemistry and Engineering, 2017, 5, 632-639. | 6.7 | 50 |
| 7 | 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 |
| 8 | Late-Transition-Metal-Modified γ -Mo ₂ C Catalysts for Enhanced Hydrogenation during Guaiacol Deoxygenation. ACS Sustainable Chemistry and Engineering, 2017, 5, 11433-11439. | 6.7 | 42 |
| 9 | Conformational Changes and Molecular Mobility in Plasticized Proteins. Biomacromolecules, 2008, 9, 3181-3187. | 5.4 | 40 |
| 10 | 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 |
| 11 | Phosphonic acid modifiers for enhancing selective hydrodeoxygenation over Pt catalysts: The role of the catalyst support. Journal of Catalysis, 2019, 372, 311-320. | 6.2 | 26 |
| 12 | Atomic Layer Deposition with TiO ₂ for Enhanced Reactivity and Stability of Aromatic Hydrogenation Catalysts. ACS Catalysis, 2021, 11, 8538-8549. | 11.2 | 24 |
| 13 | Enhancing Cooperativity in Bifunctional Au-Pd Catalysts with Carboxylic Acid-Functionalized Organic Monolayers. Journal of Physical Chemistry C, 2018, 122, 6637-6647. | 3.1 | 22 |
| 14 | An investigation into support cooperativity for the deoxygenation of guaiacol over nanoparticle Ni and Rh ₂ P. Catalysis Science and Technology, 2017, 7, 2954-2966. | 4.1 | 21 |
| 15 | Integrated Biorefining: Coproduction of Renewable Resol Biopolymer for Aqueous Stream Valorization. ACS Sustainable Chemistry and Engineering, 2017, 5, 6615-6625. | 6.7 | 19 |
| 16 | Deactivation by Potassium Accumulation on a Pt/TiO ₂ Bifunctional Catalyst for Biomass Catalytic Fast Pyrolysis. ACS Catalysis, 2022, 12, 465-480. | 11.2 | 15 |
| 17 | Organic Modifiers Promote Furfuryl Alcohol Ring Hydrogenation via Surface Hydrogen-Bonding Interactions. ACS Catalysis, 2021, 11, 3730-3739. | 11.2 | 14 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | <i>Ex situ</i> upgrading of pyrolysis vapors over PtTiO ₂ : extraction of apparent kinetics <i>via</i> hierarchical transport modeling. Reaction Chemistry and Engineering, 2021, 6, 125-137. | 3.7 | 11 |
| 20 | Optimizing Process Conditions during Catalytic Fast Pyrolysis of Pine with Pt/TiO ₂ —Improving the Viability of a Multiple-Fixed-Bed Configuration. ACS Sustainable Chemistry and Engineering, 2021, 9, 1235-1245. | 6.7 | 10 |
| 21 | Predicting thermal excursions during <i>in situ</i> oxidative regeneration of packed bed catalytic fast pyrolysis catalyst. Reaction Chemistry and Engineering, 2021, 6, 888-904. | 3.7 | 4 |
| 22 | Investigating deposition sequence during synthesis of Pd/Al ₂ O ₃ catalysts modified with organic monolayers. Catalysis Science and Technology, 2022, 12, 2306-2314. | 4.1 | 3 |
| 23 | <i>Operando</i> S/TEM Reactions of Pt/TiO ₂ Catalysts for Catalytic Fast Pyrolysis. Microscopy and Microanalysis, 2020, 26, 1696-1697. | 0.4 | 2 |
| 24 | Performing <i>In Situ</i> Closed-Cell Gas Reactions in the Transmission Electron Microscope. Journal of Visualized Experiments, 2021, , . | 0.3 | 0 |
| 25 | Practical Aspects of Performing Quantitative EELS Measurements of Gas Compositions in Closed-Cell Gas Reaction S/TEM. Microscopy and Microanalysis, 2021, 27, 796-798. | 0.4 | 0 |