

# Joseph Wood

## List of Publications by Year in descending order

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121  
papers

4,746  
citations

76326

40  
h-index

114465

63  
g-index

125  
all docs

125  
docs citations

125  
times ranked

4930  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | A review of novel techniques for heavy oil and bitumen extraction and upgrading. Energy and Environmental Science, 2010, 3, 700.   | 30.8 | 431       |
| 2  | Materials challenges for the development of solid sorbents for post-combustion carbon capture. Journal of Materials Chemistry, 2012, 22, 2815-2823.  | 6.7  | 255       |
| 3  | Recycling of Bioplastics: Routes and Benefits. Journal of Polymers and the Environment, 2020, 28, 2551-2571.   | 5.0  | 180       |
| 4  | Tri-reforming of methane over Ni@SiO <sub>2</sub> catalyst. International Journal of Hydrogen Energy, 2014, 39, 12578-12585.   | 7.1  | 118       |
| 5  | Novel supported Pd hydrogenation bionanocatalyst for hybrid homogeneous/heterogeneous catalysis. Catalysis Today, 2007, 128, 80-87.  | 4.4  | 109       |
| 6  | Poly(lactic acid) Degradation into Methyl Lactate Catalyzed by a Well-Defined Zn(II) Complex. ACS Catalysis, 2019, 9, 409-416.   | 11.2 | 99        |
| 7  | Microbial Engineering of Nanoheterostructures: Biological Synthesis of a Magnetically Recoverable Palladium Nanocatalyst. ACS Nano, 2010, 4, 2577-2584.  | 14.6 | 98        |
| 8  | Microbial synthesis of core/shell gold/palladium nanoparticles for applications in green chemistry. Journal of the Royal Society Interface, 2012, 9, 1705-1712.  | 3.4  | 95        |
| 9  | Steam gasification of rapeseed, wood, sewage sludge and miscanthus biochars for the production of a hydrogen-rich syngas. Biomass and Bioenergy, 2014, 69, 276-286.  | 5.7  | 94        |
| 10 | Nickel-silica core@shell catalyst for methane reforming. International Journal of Hydrogen Energy, 2013, 38, 14531-14541.  | 7.1  | 89        |
| 11 | Catalytic activity of biomass-supported Pd nanoparticles: Influence of the biological component in catalytic efficacy and potential application in "green" synthesis of fine chemicals and pharmaceuticals. Applied Catalysis B: Environmental, 2014, 147, 651-665.  | 20.2 | 86        |
| 12 | Catalytic performance of Ni-Cu/Al <sub>2</sub> O <sub>3</sub> for effective syngas production by methanol steam reforming. Fuel, 2018, 232, 672-683.   | 6.4  | 85        |
| 13 | Characterization and activity test of commercial Ni/Al <sub>2</sub> O <sub>3</sub> , Cu/ZnO/Al <sub>2</sub> O <sub>3</sub> and prepared Ni-Cu/Al <sub>2</sub> O <sub>3</sub> catalysts for hydrogen production from methane and methanol fuels. International Journal of Hydrogen Energy, 2013, 38, 1664-1675. | 7.1  | 79        |
| 14 | Down-hole heavy crude oil upgrading by CAPRI: Effect of hydrogen and methane gases upon upgrading and coke formation. Fuel, 2014, 119, 226-235.  | 6.4  | 79        |
| 15 | Adsorption of carbon dioxide on hydrotalcite-like compounds of different compositions. Chemical Engineering Research and Design, 2011, 89, 1711-1721.  | 5.6  | 76        |
| 16 | Preparation and CO <sub>2</sub> adsorption of amine modified Mg-Al LDH via exfoliation route. Chemical Engineering Science, 2012, 68, 424-431.   | 3.8  | 76        |
| 17 | PEPT and discrete particle simulation study of spout-fluid bed regimes. AIChE Journal, 2008, 54, 1189-1202.  | 3.6  | 74        |
| 18 | Preparation and CO <sub>2</sub> adsorption of diamine modified montmorillonite via exfoliation grafting route. Chemical Engineering Journal, 2013, 215-216, 699-708.   | 12.7 | 74        |

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|----|--|------|-----------|
| 19 | Effectiveness of Different Transition Metal Dispersed Catalysts for In Situ Heavy Oil Upgrading. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 10645-10655.   | 3.7  | 73        |
| 20 | Organocatalysis for versatile polymer degradation. <i>Green Chemistry</i> , 2020, 22, 3721-3726.   | 9.0  | 67        |
| 21 | Three-phase photocatalysis using suspended titania and titania supported on a reticulated foam monolith for water purification. <i>Catalysis Today</i> , 2007, 128, 100-107.   | 4.4  | 65        |
| 22 | Optimization of the CAPRI Process for Heavy Oil Upgrading: Effect of Hydrogen and Guard Bed. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 15394-15406.   | 3.7  | 63        |
| 23 | A comparative study of fixed-bed and dispersed catalytic upgrading of heavy crude oil using-CAPRI. <i>Chemical Engineering Journal</i> , 2015, 282, 213-223.   | 12.7 | 63        |
| 24 | Characterization of intracellular palladium nanoparticles synthesized by <i>Desulfovibrio desulfuricans</i> and <i>Bacillus benzeovorans</i> . <i>Journal of Nanoparticle Research</i> , 2015, 17, 264.  | 1.9  | 61        |
| 25 | Optimization of Heavy Oil Upgrading Using Dispersed Nanoparticulate Iron Oxide as a Catalyst. <i>Energy &amp; Fuels</i> , 2015, 29, 6306-6316.   | 5.1  | 59        |
| 26 | A facile acidic choline chloride-p-TSA DES-catalysed dehydration of fructose to 5-hydroxymethylfurfural. <i>RSC Advances</i> , 2014, 4, 39359-39364.   | 3.6  | 58        |
| 27 | Optimisation of degradation conditions of 1,8-diazabicyclo[5.4.0]undec-7-ene in water and reaction kinetics analysis using a cocurrent downflow contactor photocatalytic reactor. <i>Applied Catalysis B: Environmental</i> , 2007, 73, 259-268. | 20.2 | 56        |
| 28 | Experimental Optimization of Catalytic Process In Situ for Heavy-Oil and Bitumen Upgrading. <i>Journal of Canadian Petroleum Technology</i> , 2011, 50, 33-47.   | 2.3  | 54        |
| 29 | Accelerated degradation of Polyetheretherketone (PEEK) composite materials for recycling applications. <i>Polymer Degradation and Stability</i> , 2015, 112, 52-62.  | 5.8  | 54        |
| 30 | In-situ catalytic upgrading of heavy oil using dispersed bionanoparticles supported on gram-positive and gram-negative bacteria. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 807-819.   | 20.2 | 54        |
| 31 | Zinc Complexes for PLA Formation and Chemical Recycling: Towards a Circular Economy. <i>ChemSusChem</i> , 2019, 12, 5233-5238.   | 6.8  | 53        |
| 32 | Effect of cyclohexane as hydrogen-donor in ultradispersed catalytic upgrading of heavy oil. <i>Fuel Processing Technology</i> , 2015, 138, 724-733.  | 7.2  | 50        |
| 33 | Minimisation and recycling of spent acid wastes from galvanizing plants. <i>Resources, Conservation and Recycling</i> , 2005, 44, 153-166.   | 10.8 | 49        |
| 34 | Improving Selectivity in 2-Butyne-1,4-diol Hydrogenation using Biogenic Pt Catalysts. <i>ACS Catalysis</i> , 2012, 2, 504-511.   | 11.2 | 48        |
| 35 | Modelling diffusion and reaction accompanied by capillary condensation using three-dimensional pore networks. Part 2. Dusty gas model and general reaction kinetics. <i>Chemical Engineering Science</i> , 2002, 57, 3047-3059.                  | 3.8  | 47        |
| 36 | Photocatalytic oxidation of 2,4,6-trichlorophenol in water using a cocurrent downflow contactor reactor (CDCR). <i>Journal of Hazardous Materials</i> , 2007, 144, 627-633.  | 12.4 | 47        |

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|----|--|------|-----------|
| 37 | Palladium supported on bacterial biomass as a novel heterogeneous catalyst: A comparison of Pd/Al <sub>2</sub> O <sub>3</sub> and bio-Pd in the hydrogenation of 2-pentyne. <i>Chemical Engineering Science</i> , 2010, 65, 282-290.         | 3.8  | 46        |
| 38 | Dehydration of methanol to light olefins upon zeolite/alumina catalysts: Effect of reaction conditions, catalyst support and zeolite modification. <i>Chemical Engineering Research and Design</i> , 2015, 93, 541-553.                      | 5.6  | 45        |
| 39 | Hydrogenation of 2-Butyne-1,4-diol Using Novel Bio-Palladium Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 980-988.  | 3.7  | 44        |
| 40 | Chemical Degradation of End-of-Life Poly(lactic acid) into Methyl Lactate by a Zn(II) Complex. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 11149-11156.   | 3.7  | 43        |
| 41 | Effect of coke deposition upon pore structure and self-diffusion in deactivated industrial hydroprocessing catalysts. <i>Applied Catalysis A: General</i> , 2003, 249, 241-253.  | 4.3  | 42        |
| 42 | Semi-hydrogenation of alkynes at single crystal, nanoparticle and biogenic nanoparticle surfaces: the role of defects in Lindlar-type catalysts and the origin of their selectivity. <i>Faraday Discussions</i> , 2013, 162, 57.             | 3.2  | 42        |
| 43 | Selective hydrogenation reactions: A comparative study of monolith CDC, stirred tank and trickle bed reactors. <i>Catalysis Today</i> , 2007, 128, 108-114.  | 4.4  | 41        |
| 44 | Influence of orientation upon the hydrodynamics of gas-liquid flow for square channels in monolith supports. <i>Chemical Engineering Science</i> , 2007, 62, 4365-4378.  | 3.8  | 40        |
| 45 | Kinetic and selectivity studies of gas-liquid reaction under Taylor flow in a circular capillary. <i>Catalysis Today</i> , 2007, 128, 36-46.   | 4.4  | 39        |
| 46 | Downhole Heavy Crude Oil Upgrading Using CAPRI: Effect of Steam upon Upgrading and Coke Formation. <i>Energy &amp; Fuels</i> , 2014, 28, 1811-1819.  | 5.1  | 37        |
| 47 | Modelling diffusion and reaction accompanied by capillary condensation using three-dimensional pore networks. Part 1. Fickian diffusion and pseudo-first-order reaction kinetics. <i>Chemical Engineering Science</i> , 2002, 57, 3033-3045. | 3.8  | 36        |
| 48 | Diffuse reflectance infrared Fourier transform spectroscopy (DRIFTS) study of ethyne hydrogenation on Pd/Al <sub>2</sub> O <sub>3</sub> . <i>Catalysis Today</i> , 2007, 128, 52-62.   | 4.4  | 36        |
| 49 | Selective hydrogenation using palladium bioinorganic catalyst. <i>Applied Catalysis B: Environmental</i> , 2016, 199, 108-122.   | 20.2 | 36        |
| 50 | Upgrading of heavy oil by dispersed biogenic magnetite catalysts. <i>Fuel</i> , 2016, 185, 442-448.  | 6.4  | 35        |
| 51 | Nanoparticles of Pd supported on bacterial biomass for hydroprocessing crude bio-oil. <i>Fuel</i> , 2017, 209, 449-456.  | 6.4  | 31        |
| 52 | Efficiency of reed beds in treating dairy wastewater. <i>Biosystems Engineering</i> , 2007, 98, 455-469.   | 4.3  | 28        |
| 53 | Selective Oxidation of Benzyl-Alcohol over Biomass-Supported Au/Pd Bioinorganic Catalysts. <i>Topics in Catalysis</i> , 2011, 54, 1110-1114.   | 2.8  | 27        |
| 54 | Carbon Dioxide Separation from Nitrogen/Hydrogen Mixtures over Activated Carbon Beads: Adsorption Isotherms and Breakthrough Studies. <i>Energy &amp; Fuels</i> , 2015, 29, 3796-3807.   | 5.1  | 27        |

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|----|--|------|-----------|
| 55 | In situ catalytic upgrading of heavy oil using a pelletized Ni-Mo/Al <sub>2</sub> O <sub>3</sub> catalyst in the THAI process. <i>Journal of Petroleum Science and Engineering</i> , 2017, 156, 958-965.   | 4.2  | 26        |
| 56 | In Situ Catalytic Upgrading of Heavy Crude with CAPRI: Influence of Hydrogen on Catalyst Pore Plugging and Deactivation due to Coke. <i>Energies</i> , 2018, 11, 636.  | 3.1  | 26        |
| 57 | Analysis of the performance of single capillary and multiple capillary (monolith) reactors for the multiphase Pd-catalyzed hydrogenation of 2-Butyne-1,4-Diol. <i>Chemical Engineering Science</i> , 2004, 59, 5431-5438.  | 3.8  | 24        |
| 58 | Effect of Fines and Porous Catalyst on Hydrodynamics of Trickle Bed Reactors. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 9497-9501.  | 3.7  | 24        |
| 59 | A biogenic catalyst for hydrogenation, reduction and selective dehalogenation in non-aqueous solvents. <i>Hydrometallurgy</i> , 2008, 94, 138-143.   | 4.3  | 24        |
| 60 | Use of <i>Desulfovibrio</i> and <i>Escherichia coli</i> Pd-nanocatalysts in reduction of Cr(VI) and hydrogenolytic dehalogenation of polychlorinated biphenyls and used transformer oil. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 1430-1435.  | 3.2  | 24        |
| 61 | Comparison of the effects of dispersed noble metal (Pd) biomass supported catalysts with typical hydrogenation (Pd/C, Pd/Al <sub>2</sub> O <sub>3</sub> ) and hydrotreatment catalysts (CoMo/Al <sub>2</sub> O <sub>3</sub> ) for in-situ heavy oil upgrading with Toe-to-Heel Air Injection (THAI). <i>Fuel</i> , 2016, 180, 367-376. | 6.4  | 24        |
| 62 | A novel biorefinery: Biorecovery of precious metals from spent automotive catalyst leachates into new catalysts effective in metal reduction and in the hydrogenation of 2-pentyne. <i>Minerals Engineering</i> , 2017, 113, 102-108.  | 4.3  | 24        |
| 63 | Kinetics of Methyl Lactate Formation from the Transesterification of Polylactic Acid Catalyzed by Zn(II) Complexes. <i>ACS Omega</i> , 2020, 5, 5556-5564.   | 3.5  | 23        |
| 64 | Improving the interpretation of mercury porosimetry data using computerised X-ray tomography and mean-field DFT. <i>Chemical Engineering Science</i> , 2011, 66, 2328-2339.  | 3.8  | 22        |
| 65 | Impact of Oil Composition on Microwave Heating Behavior of Heavy Oils. <i>Energy &amp; Fuels</i> , 2018, 32, 1592-1599.  | 5.1  | 21        |
| 66 | In-situ microwave-assisted catalytic upgrading of heavy oil: Experimental validation and effect of catalyst pore structure on activity. <i>Chemical Engineering Journal</i> , 2021, 413, 127420.   | 12.7 | 21        |
| 67 | Preparation and CO <sub>2</sub> adsorption of amine modified layered double hydroxide via anionic surfactant-mediated route. <i>Chemical Engineering Journal</i> , 2012, 181-182, 267-275.   | 12.7 | 20        |
| 68 | Metallic bionanocatalysts: potential applications as green catalysts and energy materials. <i>Microbial Biotechnology</i> , 2017, 10, 1171-1180.   | 4.2  | 20        |
| 69 | Simultaneous measurement of in situ bubble size and reaction rates with a heterogeneous catalytic hydrogenation reaction. <i>Chemical Engineering Science</i> , 2007, 62, 5392-5396.   | 3.8  | 19        |
| 70 | Two phase gas-liquid reaction studies in a circular capillary. <i>Chemical Engineering Science</i> , 2007, 62, 5397-5401.  | 3.8  | 19        |
| 71 | Scaling-out selective hydrogenation reactions: From single capillary reactor to monolith. <i>Fuel</i> , 2007, 86, 1304-1312.   | 6.4  | 18        |
| 72 | Coke Formation and Characterization During 1-Hexene Isomerization and Oligomerization over H-ZSM-5 Catalyst under Supercritical Conditions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 7899-7909.  | 3.7  | 18        |

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|----|---|------|-----------|
| 73 | Tetralin and Decalin H-Donor Effect on Catalytic Upgrading of Heavy Oil Inductively Heated with Steel Balls. <i>Catalysts</i> , 2020, 10, 393.  | 3.5  | 18        |
| 74 | Mild-Temperature hydrodeoxygenation of vanillin a typical bio-oil model compound to Creosol a potential future biofuel. <i>Catalysis Today</i> , 2021, 379, 70-79.  | 4.4  | 18        |
| 75 | Selective Hydrogenation of 1-Heptyne in a Mini Trickle Bed Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 8815-8825.   | 3.7  | 17        |
| 76 | Laboratory investigation of CAPRI catalytic THAI-add-on process for heavy oil production and in situ upgrading. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 128, 18-26.  | 5.5  | 17        |
| 77 | Kinetics of Vanillin Hydrodeoxygenation Reaction in an Organic Solvent Using a Pd/C Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 15162-15172.   | 3.7  | 16        |
| 78 | Maximizing paraffin to olefin ratio employing simulated nitrogen-rich syngas via Fischer-Tropsch process over Co <sub>3</sub> O <sub>4</sub> /SiO <sub>2</sub> catalysts. <i>Fuel Processing Technology</i> , 2020, 208, 106477.                                  | 7.2  | 15        |
| 79 | Hydrogenation and Dehydrogenation of Tetralin and Naphthalene to Explore Heavy Oil Upgrading Using NiMo/Al <sub>2</sub> O <sub>3</sub> and CoMo/Al <sub>2</sub> O <sub>3</sub> Catalysts Heated with Steel Balls via Induction. <i>Catalysts</i> , 2020, 10, 497. | 3.5  | 15        |
| 80 | A comparative study of residence time distribution and selectivity in a monolith CDC reactor and a trickle bed reactor. <i>Catalysis Today</i> , 2005, 105, 455-463.  | 4.4  | 14        |
| 81 | Studies of the entrapment of non-wetting fluid within nanoporous media using a synergistic combination of MRI and micro-computed X-ray tomography. <i>Chemical Engineering Science</i> , 2006, 61, 7579-7592.   | 3.8  | 14        |
| 82 | Modelling and parameter estimation of breakthrough curves for amine-modified activated carbons under pre-combustion carbon capture conditions. <i>Fuel</i> , 2019, 253, 1130-1139.  | 6.4  | 14        |
| 83 | Ethyl Lactate Production from the Catalytic Depolymerisation of Post-consumer Poly(lactic acid). <i>Journal of Polymers and the Environment</i> , 2020, 28, 2956-2964.  | 5.0  | 14        |
| 84 | Hydrogenation of 2-pentyne over Pd/Al <sub>2</sub> O <sub>3</sub> catalysts: Effect of operating variables and solvent selection. <i>Applied Catalysis A: General</i> , 2009, 364, 57-64.   | 4.3  | 13        |
| 85 | Modified zeolite catalyst for selective dialkylation of naphthalene. <i>Chemical Engineering Journal</i> , 2012, 207-208, 329-341.  | 12.7 | 13        |
| 86 | Fructose dehydration to 5HMF in a green self-catalysed DES composed of N,N-diethylethanolammonium chloride and p-toluenesulfonic acid monohydrate (p-TSA). <i>Comptes Rendus Chimie</i> , 2016, 19, 450-456.  | 0.5  | 13        |
| 87 | Microwave synthesis of carbon onions in fractal aggregates using heavy oil as a precursor. <i>Carbon</i> , 2018, 138, 427-435.  | 10.3 | 13        |
| 88 | Kinetics of Alkyl Lactate Formation from the Alcoholysis of Poly(Lactic Acid). <i>Processes</i> , 2020, 8, 738.   | 2.8  | 13        |
| 89 | Biorefining of platinum group metals from model waste solutions into catalytically active bimetallic nanoparticles. <i>Microbial Biotechnology</i> , 2018, 11, 359-368.   | 4.2  | 12        |
| 90 | Catalytic Hydrogenation of Short Chain Carboxylic Acids Typical of Model Compound Found in Bio-Oils. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 7998-8008.  | 3.7  | 12        |

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|-----|--|------|-----------|
| 91  | A Mechanistic Study of Layered-Double Hydroxide (LDH)-Derived Nickel-Enriched Mixed Oxide (Ni-MMO) in Ultradispersed Catalytic Pyrolysis of Heavy Oil and Related Petroleum Coke Formation. <i>Energy &amp; Fuels</i> , 2019, 33, 10820-10832. | 5.1  | 12        |
| 92  | Monitoring of Itaconic Acid Hydrogenation in a Trickle Bed Reactor Using Fiber-Optic Coupled Near-Infrared Spectroscopy. <i>Applied Spectroscopy</i> , 2003, 57, 293-298.  | 2.2  | 10        |
| 93  | Heterogeneous oxidation of 2-octanol on 5wt%Pt@1wt%Bi/Carbon catalyst. <i>Chemical Engineering Science</i> , 2010, 65, 179-185.  | 3.8  | 10        |
| 94  | Enantioselective hydrogenation of dimethyl itaconate with immobilised rhodium-duphos complex in a recirculating fixed-bed reactor. <i>Applied Catalysis A: General</i> , 2011, 396, 148-158.   | 4.3  | 10        |
| 95  | Characterization of Ni-Cu-based catalysts for multi-fuel steam reformer. <i>International Journal of Low-Carbon Technologies</i> , 2012, 7, 55-59.   | 2.6  | 10        |
| 96  | Characterization of pore coking in catalyst for thermal down-hole upgrading of heavy oil. <i>Chemical Engineering Science</i> , 2015, 131, 138-145.  | 3.8  | 10        |
| 97  | Inductive Heating Assisted-Catalytic Dehydrogenation of Tetralin as a Hydrogen Source for Downhole Catalytic Upgrading of Heavy Oil. <i>Topics in Catalysis</i> , 2020, 63, 268-280.   | 2.8  | 10        |
| 98  | Experimental Optimization of Catalytic Process In-Situ for Heavy Oil and Bitumen Upgrading. , 2010, , .  |      | 9         |
| 99  | Effect of supercritical conditions upon catalyst deactivation in the hydrogenation of naphthalene. <i>Chemical Engineering Journal</i> , 2012, 207-208, 133-141.   | 12.7 | 9         |
| 100 | Kinetics of Hydrogenation of Acetic Acid over Supported Platinum Catalyst. <i>Energy &amp; Fuels</i> , 2019, 33, 5551-5560.  | 5.1  | 9         |
| 101 | Comparative Study on the Hydrogenation of Naphthalene over Both Al <sub>2</sub> O <sub>3</sub> -Supported Pd and NiMo Catalysts against a Novel LDH-Derived Ni-MMO-Supported Mo Catalyst. <i>ACS Omega</i> , 2021, 6, 20053-20067.             | 3.5  | 9         |
| 102 | Prolonging catalyst lifetime in supercritical isomerization of 1-hexene over a platinum/alumina catalyst. <i>Chemical Engineering Science</i> , 2009, 64, 3427-3436.   | 3.8  | 8         |
| 103 | Deactivation during 1-Hexene Isomerization over Zeolite Y and ZSM5 Catalysts under Supercritical Conditions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 7161-7171.   | 3.7  | 8         |
| 104 | Photocatalytic performance of Li <sup>1-x</sup> Ag <sup>x</sup> VMoO <sub>6</sub> (0 ≤ x ≤ 1) compounds. <i>Chemical Engineering Journal</i> , 2013, 234, 327-337.   | 12.7 | 8         |
| 105 | 3D printed re-entrant cavity resonator for complex permittivity measurement of crude oils. <i>Sensors and Actuators A: Physical</i> , 2021, 317, 112477.   | 4.1  | 8         |
| 106 | Experimental and modelling studies of the kinetics of mercury retraction from highly confined geometries during porosimetry in the transport and the quasi-equilibrium regimes. <i>Chemical Engineering Science</i> , 2008, 63, 5771-5788.     | 3.8  | 7         |
| 107 | Reaction Kinetics of Vanillin Hydrodeoxygenation in Acidic and Nonacidic Environments Using Bimetallic PdRh/Al <sub>2</sub> O <sub>3</sub> Catalyst. <i>Energy &amp; Fuels</i> , 2019, 33, 11712-11723.  | 5.1  | 7         |
| 108 | Synergistic Dual Catalytic System and Kinetics for the Alcoholysis of Poly(Lactic Acid). <i>Processes</i> , 2021, 9, 921.  | 2.8  | 7         |



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|-----|--|-----|-----------|
| 109 | Counting carbon fibres by electrical resistance measurement. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 68, 276-281.  | 7.6 | 5         |
| 110 | A parametric study of process design and cycle configurations for pre-combustion PSA applied to NGCC power plants. <i>Chemical Engineering Research and Design</i> , 2020, 160, 141-153. | 5.6 | 5         |
| 111 | Modelling of pore structure evolution during catalyst deactivation and comparison with experiment. <i>Chemical Engineering Science</i> , 2010, 65, 5550-5558.                            | 3.8 | 4         |
| 112 | Investigation of the problems with using gas adsorption to probe catalyst pore structure evolution during coking. <i>Journal of Colloid and Interface Science</i> , 2013, 393, 234-240.  | 9.4 | 4         |
| 113 | Methanolysis of Poly(lactic Acid) Using Catalyst Mixtures and the Kinetics of Methyl Lactate Production. <i>Polymers</i> , 2022, 14, 1763.   | 4.5 | 3         |
| 114 | Biomaterialised Palladium is an Effective Hydrogenation Catalyst. <i>Advanced Materials Research</i> , 0, 71-73, 725-728.  | 0.3 | 2         |
| 115 | A Novel Hydrogenation and Hydrogenolysis Catalyst Using Palladized Biomass of Gram-negative and Gram-positive Bacteria. <i>Advanced Materials Research</i> , 2007, 20-21, 603-606.       | 0.3 | 1         |
| 116 | Determination of the location of coke in catalysts by a novel NMR-based, liquid-porosimetry approach. <i>Journal of Colloid and Interface Science</i> , 2012, 381, 164-170.              | 9.4 | 1         |
| 117 | Three-phase catalytic reactors for hydrogenation and oxidation reactions. <i>ChemistrySelect</i> , 2016, 1, .  | 1.5 | 1         |
| 118 | Determination of the Spatial Location of Coke in Catalysts by a Novel NMR Approach. , 2011, , .  |     | 0         |
| 119 | 6. Three-phase catalytic reactors for hydrogenation and oxidation reactions. , 2015, , 220-282.  |     | 0         |
| 120 | Optimization of Coke Resistant Catalyst for Thermal Down-hole Upgrading. , 2014, , .   |     | 0         |
| 121 | Determination of the Spatial Location of Coke in Catalysts by a Novel NMR Approach. <i>AIP Conference Proceedings</i> , 2011, , .  | 0.4 | 0         |