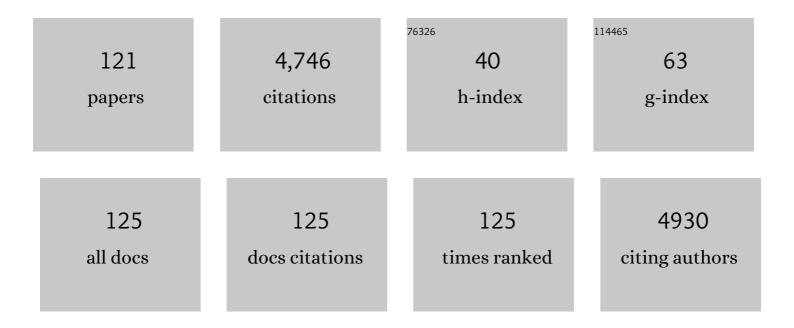
Joseph Wood

List of Publications by Year in descending order

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LOSEDH MOOD

#	Article	IF	CITATIONS
1	Methanolysis of Poly(lactic Acid) Using Catalyst Mixtures and the Kinetics of Methyl Lactate Production. Polymers, 2022, 14, 1763.	4.5	3
2	Mild-Temperature hydrodeoxygenation of vanillin a typical bio-oil model compound to Creosol a potential future biofuel. Catalysis Today, 2021, 379, 70-79.	4.4	18
3	3D printed re-entrant cavity resonator for complex permittivity measurement of crude oils. Sensors and Actuators A: Physical, 2021, 317, 112477.	4.1	8
4	In-situ microwave-assisted catalytic upgrading of heavy oil: Experimental validation and effect of catalyst pore structure on activity. Chemical Engineering Journal, 2021, 413, 127420.	12.7	21
5	Synergistic Dual Catalytic System and Kinetics for the Alcoholysis of Poly(Lactic Acid). Processes, 2021, 9, 921.	2.8	7
6	Comparative Study on the Hydrogenation of Naphthalene over Both Al ₂ O ₃ -Supported Pd and NiMo Catalysts against a Novel LDH-Derived Ni-MMO-Supported Mo Catalyst. ACS Omega, 2021, 6, 20053-20067.	3.5	9
7	Inductive Heating Assisted-Catalytic Dehydrogenation of Tetralin as a Hydrogen Source for Downhole Catalytic Upgrading of Heavy Oil. Topics in Catalysis, 2020, 63, 268-280.	2.8	10
8	Kinetics of Alkyl Lactate Formation from the Alcoholysis of Poly(Lactic Acid). Processes, 2020, 8, 738.	2.8	13
9	Maximizing paraffin to olefin ratio employing simulated nitrogen-rich syngas via Fischer-Tropsch process over Co3O4/SiO2 catalysts. Fuel Processing Technology, 2020, 208, 106477.	7.2	15
10	Ethyl Lactate Production from the Catalytic Depolymerisation of Post-consumer Poly(lactic acid). Journal of Polymers and the Environment, 2020, 28, 2956-2964.	5.0	14
11	Chemical Degradation of End-of-Life Poly(lactic acid) into Methyl Lactate by a Zn(II) Complex. Industrial & Engineering Chemistry Research, 2020, 59, 11149-11156.	3.7	43
12	Organocatalysis for versatile polymer degradation. Green Chemistry, 2020, 22, 3721-3726.	9.0	67
13	A parametric study of process design and cycle configurations for pre-combustion PSA applied to NGCC power plants. Chemical Engineering Research and Design, 2020, 160, 141-153.	5.6	5
14	Hydrogenation and Dehydrogenation of Tetralin and Naphthalene to Explore Heavy Oil Upgrading Using NiMo/Al2O3 and CoMo/Al2O3 Catalysts Heated with Steel Balls via Induction. Catalysts, 2020, 10, 497.	3.5	15
15	Kinetics of Methyl Lactate Formation from the Transesterification of Polylactic Acid Catalyzed by Zn(II) Complexes. ACS Omega, 2020, 5, 5556-5564.	3.5	23
16	Recycling of Bioplastics: Routes and Benefits. Journal of Polymers and the Environment, 2020, 28, 2551-2571.	5.0	180
17	Tetralin and Decalin H-Donor Effect on Catalytic Upgrading of Heavy Oil Inductively Heated with Steel Balls. Catalysts, 2020, 10, 393.	3.5	18
18	Kinetics of Vanillin Hydrodeoxygenation Reaction in an Organic Solvent Using a Pd/C Catalyst. Industrial & Engineering Chemistry Research, 2019, 58, 15162-15172.	3.7	16

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19	Reaction Kinetics of Vanillin Hydrodeoxygenation in Acidic and Nonacidic Environments Using Bimetallic PdRh/Al ₂ O ₃ Catalyst. Energy & Fuels, 2019, 33, 11712-11723.	5.1	7
20	Zinc Complexes for PLA Formation and Chemical Recycling: Towards a Circular Economy. ChemSusChem, 2019, 12, 5233-5238.	6.8	53
21	Modelling and parameter estimation of breakthrough curves for amine-modified activated carbons under pre-combustion carbon capture conditions. Fuel, 2019, 253, 1130-1139.	6.4	14
22	Kinetics of Hydrogenation of Acetic Acid over Supported Platinum Catalyst. Energy & Fuels, 2019, 33, 5551-5560.	5.1	9
23	Catalytic Hydrogenation of Short Chain Carboxylic Acids Typical of Model Compound Found in Bio-Oils. Industrial & Engineering Chemistry Research, 2019, 58, 7998-8008.	3.7	12
24	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. Energy & Fuels, 2019, 33, 10820-10832.	5.1	12
25	Poly(lactic acid) Degradation into Methyl Lactate Catalyzed by a Well-Defined Zn(II) Complex. ACS Catalysis, 2019, 9, 409-416.	11.2	99
26	Impact of Oil Composition on Microwave Heating Behavior of Heavy Oils. Energy & Fuels, 2018, 32, 1592-1599.	5.1	21
27	Biorefining of platinum group metals from model waste solutions into catalytically active bimetallic nanoparticles. Microbial Biotechnology, 2018, 11, 359-368.	4.2	12
28	Catalytic performance of Ni-Cu/Al2O3 for effective syngas production by methanol steam reforming. Fuel, 2018, 232, 672-683.	6.4	85
29	Microwave synthesis of carbon onions in fractal aggregates using heavy oil as a precursor. Carbon, 2018, 138, 427-435.	10.3	13
30	In Situ Catalytic Upgrading of Heavy Crude with CAPRI: Influence of Hydrogen on Catalyst Pore Plugging and Deactivation due to Coke. Energies, 2018, 11, 636.	3.1	26
31	Nanoparticles of Pd supported on bacterial biomass for hydroprocessing crude bio-oil. Fuel, 2017, 209, 449-456.	6.4	31
32	Metallic bionanocatalysts: potential applications as green catalysts and energy materials. Microbial Biotechnology, 2017, 10, 1171-1180.	4.2	20
33	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. Minerals Engineering, 2017, 113, 102-108.	4.3	24
34	In situ catalytic upgrading of heavy oil using a pelletized Ni-Mo/Al2O3 catalyst in the THAI process. Journal of Petroleum Science and Engineering, 2017, 156, 958-965.	4.2	26
35	Laboratory investigation of CAPRI catalytic THAI-add-on process for heavy oil production and in situ upgrading. Journal of Analytical and Applied Pyrolysis, 2017, 128, 18-26.	5.5	17
36	In-situ catalytic upgrading of heavy oil using dispersed bionanoparticles supported on gram-positive and gram-negative bacteria. Applied Catalysis B: Environmental, 2017, 203, 807-819.	20.2	54

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37	Three-phase catalytic reactors for hydrogenation and oxidation reactions. ChemistrySelect, 2016, 1, .	1.5	1
38	Selective hydrogenation using palladium bioinorganic catalyst. Applied Catalysis B: Environmental, 2016, 199, 108-122.	20.2	36
39	Comparison of the effects of dispersed noble metal (Pd) biomass supported catalysts with typical hydrogenation (Pd/C, Pd/Al2O3) and hydrotreatment catalysts (CoMo/Al2O3) for in-situ heavy oil upgrading with Toe-to-Heel Air Injection (THAI). Fuel, 2016, 180, 367-376.	6.4	24
40	Upgrading of heavy oil by dispersed biogenic magnetite catalysts. Fuel, 2016, 185, 442-448.	6.4	35
41	Fructose dehydration to 5HMF in a green self-catalysed DES composed of N,N-diethylethanolammonium chloride and p-toluenesulfonic acid monohydrate (p-TSA). Comptes Rendus Chimie, 2016, 19, 450-456.	0.5	13
42	6. Three-phase catalytic reactors for hydrogenation and oxidation reactions. , 2015, , 220-282.		0
43	Accelerated degradation of Polyetheretherketone (PEEK) composite materials for recycling applications. Polymer Degradation and Stability, 2015, 112, 52-62.	5.8	54
44	Counting carbon fibres by electrical resistance measurement. Composites Part A: Applied Science and Manufacturing, 2015, 68, 276-281.	7.6	5
45	Characterization of pore coking in catalyst for thermal down-hole upgrading of heavy oil. Chemical Engineering Science, 2015, 131, 138-145.	3.8	10
46	Effect of cyclohexane as hydrogen-donor in ultradispersed catalytic upgrading of heavy oil. Fuel Processing Technology, 2015, 138, 724-733.	7.2	50
47	Carbon Dioxide Separation from Nitrogen/Hydrogen Mixtures over Activated Carbon Beads: Adsorption Isotherms and Breakthrough Studies. Energy & Fuels, 2015, 29, 3796-3807.	5.1	27
48	Characterization of intracellular palladium nanoparticles synthesized by Desulfovibrio desulfuricans and Bacillus benzeovorans. Journal of Nanoparticle Research, 2015, 17, 264.	1.9	61
49	A comparative study of fixed-bed and dispersed catalytic upgrading of heavy crude oil using-CAPRI. Chemical Engineering Journal, 2015, 282, 213-223.	12.7	63
50	Effectiveness of Different Transition Metal Dispersed Catalysts for In Situ Heavy Oil Upgrading. Industrial & Engineering Chemistry Research, 2015, 54, 10645-10655.	3.7	73
51	Optimization of Heavy Oil Upgrading Using Dispersed Nanoparticulate Iron Oxide as a Catalyst. Energy & Fuels, 2015, 29, 6306-6316.	5.1	59
52	Dehydration of methanol to light olefins upon zeolite/alumina catalysts: Effect of reaction conditions, catalyst support and zeolite modification. Chemical Engineering Research and Design, 2015, 93, 541-553.	5.6	45
53	Catalytic activity of biomass-supported Pd nanoparticles: Influence of the biological component in catalytic efficacy and potential application in â€̃green' synthesis of fine chemicals and pharmaceuticals. Applied Catalysis B: Environmental, 2014, 147, 651-665.	20.2	86
54	Downhole Heavy Crude Oil Upgrading Using CAPRI: Effect of Steam upon Upgrading and Coke Formation. Energy & Fuels, 2014, 28, 1811-1819.	5.1	37

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55	A facile acidic choline chloride–p-TSA DES-catalysed dehydration of fructose to 5-hydroxymethylfurfural. RSC Advances, 2014, 4, 39359-39364.	3.6	58
56	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
57	Tri-reforming of methane over Ni@SiO 2 catalyst. International Journal of Hydrogen Energy, 2014, 39, 12578-12585.	7.1	118
58	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
59	Optimization of Coke Resistant Catalyst for Thermal Down-hole Upgrading. , 2014, , .		0
60	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. Faraday Discussions, 2013, 162, 57.	3.2	42
61	Characterization and activity test of commercial Ni/Al2O3, Cu/ZnO/Al2O3 and prepared Ni–Cu/Al2O3 catalysts for hydrogen production from methane and methanol fuels. International Journal of Hydrogen Energy, 2013, 38, 1664-1675.	7.1	79
62	Nickel–silica core@shell catalyst for methane reforming. International Journal of Hydrogen Energy, 2013, 38, 14531-14541.	7.1	89
63	Photocatalytic performance of Li1â^'xAgxVMoO6 (0⩽x⩽1) compounds. Chemical Engineering Journal, 201 234, 327-337.	13. 12.7	8
64	Preparation and CO2 adsorption of diamine modified montmorillonite via exfoliation grafting route. Chemical Engineering Journal, 2013, 215-216, 699-708.	12.7	74
65	Investigation of the problems with using gas adsorption to probe catalyst pore structure evolution during coking. Journal of Colloid and Interface Science, 2013, 393, 234-240.	9.4	4
66	Optimization of the CAPRI Process for Heavy Oil Upgrading: Effect of Hydrogen and Guard Bed. Industrial & Engineering Chemistry Research, 2013, 52, 15394-15406.	3.7	63
67	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
68	Effect of supercritical conditions upon catalyst deactivation in the hydrogenation of naphthalene. Chemical Engineering Journal, 2012, 207-208, 133-141.	12.7	9
69	Improving Selectivity in 2-Butyne-1,4-diol Hydrogenation using Biogenic Pt Catalysts. ACS Catalysis, 2012, 2, 504-511.	11.2	48
70	Characterization of Ni-Cu-based catalysts for multi-fuel steam reformer. International Journal of Low-Carbon Technologies, 2012, 7, 55-59.	2.6	10
71	Materials challenges for the development of solid sorbents for post-combustion carbon capture. Journal of Materials Chemistry, 2012, 22, 2815-2823.	6.7	255
72	Modified zeolite catalyst for selective dialkylation of naphthalene. Chemical Engineering Journal, 2012, 207-208, 329-341.	12.7	13

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73	Selective Hydrogenation of 1-Heptyne in a Mini Trickle Bed Reactor. Industrial & Engineering Chemistry Research, 2012, 51, 8815-8825.	3.7	17
74	Use of <i>Desulfovibrio</i> and <i>Escherichia coli</i> Pdâ€nanocatalysts in reduction of Cr(VI) and hydrogenolytic dehalogenation of polychlorinated biphenyls and used transformer oil. Journal of Chemical Technology and Biotechnology, 2012, 87, 1430-1435.	3.2	24
75	Preparation and CO2 adsorption of amine modified layered double hydroxide via anionic surfactant-mediated route. Chemical Engineering Journal, 2012, 181-182, 267-275.	12.7	20
76	Preparation and CO2 adsorption of amine modified Mg–Al LDH via exfoliation route. Chemical Engineering Science, 2012, 68, 424-431.	3.8	76
77	Determination of the location of coke in catalysts by a novel NMR-based, liquid-porosimetry approach. Journal of Colloid and Interface Science, 2012, 381, 164-170.	9.4	1
78	Deactivation during 1-Hexene Isomerization over Zeolite Y and ZSM5 Catalysts under Supercritical Conditions. Industrial & Engineering Chemistry Research, 2011, 50, 7161-7171.	3.7	8
79	Experimental Optimization of Catalytic Process In Situ for Heavy-Oil and Bitumen Upgrading. Journal of Canadian Petroleum Technology, 2011, 50, 33-47.	2.3	54
80	Determination of the Spatial Location of Coke in Catalysts by a Novel NMR Approach. , 2011, , .		0
81	Selective Oxidation of Benzyl-Alcohol over Biomass-Supported Au/Pd Bioinorganic Catalysts. Topics in Catalysis, 2011, 54, 1110-1114.	2.8	27
82	Improving the interpretation of mercury porosimetry data using computerised X-ray tomography and mean-field DFT. Chemical Engineering Science, 2011, 66, 2328-2339.	3.8	22
83	Adsorption of carbon dioxide on hydrotalcite-like compounds of different compositions. Chemical Engineering Research and Design, 2011, 89, 1711-1721.	5.6	76
84	Enantioselective hydrogenation of dimethyl itaconate with immobilised rhodium-duphos complex in a recirculating fixed-bed reactor. Applied Catalysis A: General, 2011, 396, 148-158.	4.3	10
85	Determination of the Spatial Location of Coke in Catalysts by a Novel NMR Approach. AIP Conference Proceedings, 2011, , .	0.4	0
86	Experimental Optimization of Catalytic Process In-Situ for Heavy Oil and Bitumen Upgrading. , 2010, , .		9
87	Palladium supported on bacterial biomass as a novel heterogeneous catalyst: A comparison of Pd/Al2O3 and bio-Pd in the hydrogenation of 2-pentyne. Chemical Engineering Science, 2010, 65, 282-290.	3.8	46
88	Heterogeneous oxidation of 2-octanol on 5wt%Pt–1wt%Bi/Carbon catalyst. Chemical Engineering Science, 2010, 65, 179-185.	3.8	10
89	Modelling of pore structure evolution during catalyst deactivation and comparison with experiment. Chemical Engineering Science, 2010, 65, 5550-5558.	3.8	4
90	Hydrogenation of 2-Butyne-1,4-diol Using Novel Bio-Palladium Catalysts. Industrial & Engineering Chemistry Research, 2010, 49, 980-988.	3.7	44

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91	Microbial Engineering of Nanoheterostructures: Biological Synthesis of a Magnetically Recoverable Palladium Nanocatalyst. ACS Nano, 2010, 4, 2577-2584.	14.6	98
92	A review of novel techniques for heavy oil and bitumen extraction and upgrading. Energy and Environmental Science, 2010, 3, 700.	30.8	431
93	Prolonging catalyst lifetime in supercritical isomerization of 1-hexene over a platinum/alumina catalyst. Chemical Engineering Science, 2009, 64, 3427-3436.	3.8	8
94	Hydrogenation of 2-pentyne over Pd/Al2O3 catalysts: Effect of operating variables and solvent selection. Applied Catalysis A: General, 2009, 364, 57-64.	4.3	13
95	Coke Formation and Characterization During 1-Hexene Isomerization and Oligomerization over H-ZSM-5 Catalyst under Supercritical Conditions. Industrial & Engineering Chemistry Research, 2009, 48, 7899-7909.	3.7	18
96	Experimental and modelling studies of the kinetics of mercury retraction from highly confined geometries during porosimetry in the transport and the quasi-equilibrium regimes. Chemical Engineering Science, 2008, 63, 5771-5788.	3.8	7
97	PEPT and discrete particle simulation study of spoutâ€fluid bed regimes. AICHE Journal, 2008, 54, 1189-1202.	3.6	74
98	A biogenic catalyst for hydrogenation, reduction and selective dehalogenation in non-aqueous solvents. Hydrometallurgy, 2008, 94, 138-143.	4.3	24
99	A Novel Hydrogenation and Hydrogenolysis Catalyst Using Palladized Biomass of Gram-negative and Gram-positive Bacteria. Advanced Materials Research, 2007, 20-21, 603-606.	0.3	1
100	Efficiency of reed beds in treating dairy wastewater. Biosystems Engineering, 2007, 98, 455-469.	4.3	28
101	Novel supported Pd hydrogenation bionanocatalyst for hybrid homogeneous/heterogeneous catalysis. Catalysis Today, 2007, 128, 80-87.	4.4	109
102	Diffuse reflectance infrared Fourier transform spectroscopy (DRIFTS) study of ethyne hydrogenation on Pd/Al2O3. Catalysis Today, 2007, 128, 52-62.	4.4	36
103	Selective hydrogenation reactions: A comparative study of monolith CDC, stirred tank and trickle bed reactors. Catalysis Today, 2007, 128, 108-114.	4.4	41
104	Kinetic and selectivity studies of gas–liquid reaction under Taylor flow in a circular capillary. Catalysis Today, 2007, 128, 36-46.	4.4	39
105	Simultaneous measurement of in situ bubble size and reaction rates with a heterogeneous catalytic hydrogenation reaction. Chemical Engineering Science, 2007, 62, 5392-5396.	3.8	19
106	Influence of orientation upon the hydrodynamics of gas–liquid flow for square channels in monolith supports. Chemical Engineering Science, 2007, 62, 4365-4378.	3.8	40
107	Scaling-out selective hydrogenation reactions: From single capillary reactor to monolith. Fuel, 2007, 86, 1304-1312.	6.4	18
108	Photocatalytic oxidation of 2,4,6-trichlorophenol in water using a cocurrent downflow contactor reactor (CDCR). Journal of Hazardous Materials, 2007, 144, 627-633.	12.4	47

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109	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. Applied Catalysis B: Environmental, 2007, 73, 259-268.	20.2	56
110	Three-phase photocatalysis using suspended titania and titania supported on a reticulated foam monolith for water purification. Catalysis Today, 2007, 128, 100-107.	4.4	65
111	Two phase gas–liquid reaction studies in a circular capillary. Chemical Engineering Science, 2007, 62, 5397-5401.	3.8	19
112	Studies of the entrapment of non-wetting fluid within nanoporous media using a synergistic combination of MRI and micro-computed X-ray tomography. Chemical Engineering Science, 2006, 61, 7579-7592.	3.8	14
113	Minimisation and recycling of spent acid wastes from galvanizing plants. Resources, Conservation and Recycling, 2005, 44, 153-166.	10.8	49
114	A comparative study of residence time distribution and selectivity in a monolith CDC reactor and a trickle bed reactor. Catalysis Today, 2005, 105, 455-463.	4.4	14
115	Effect of Fines and Porous Catalyst on Hydrodynamics of Trickle Bed Reactors. Industrial & Engineering Chemistry Research, 2005, 44, 9497-9501.	3.7	24
116	Analysis of the performance of single capillary and multiple capillary (monolith) reactors for the multiphase Pd-catalyzed hydrogenation of 2-Butyne-1,4-Diol. Chemical Engineering Science, 2004, 59, 5431-5438.	3.8	24
117	Effect of coke deposition upon pore structure and self-diffusion in deactivated industrial hydroprocessing catalysts. Applied Catalysis A: General, 2003, 249, 241-253.	4.3	42
118	Monitoring of Itaconic Acid Hydrogenation in a Trickle Bed Reactor Using Fiber-Optic Coupled Near-Infrared Spectroscopy. Applied Spectroscopy, 2003, 57, 293-298.	2.2	10
119	Modelling diffusion and reaction accompanied by capillary condensation using three-dimensional pore networks. Part 1. Fickian diffusion and pseudo-first-order reaction kinetics. Chemical Engineering Science, 2002, 57, 3033-3045.	3.8	36
120	Modelling diffusion and reaction accompanied by capillary condensation using three-dimensional pore networks. Part 2. Dusty gas model and general reaction kinetics. Chemical Engineering Science, 2002, 57, 3047-3059.	3.8	47
121	Biomineralised Palladium is an Effective Hydrogenation Catalyst. Advanced Materials Research, 0, 71-73, 725-728.	0.3	2