

Joris Thybaut

List of Publications by Year in descending order

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201
papers

5,358
citations

71102

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138484

58
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203
docs citations

203
times ranked

4968
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidences for pore mouth and keyâ€“lock catalysis in hydroisomerization of long n-alkanes over 10-ring tubular pore bifunctional zeolites. <i>Catalysis Today</i> , 2001, 65, 111-116.	4.4	158
2	Microkinetics of methane oxidative coupling. <i>Catalysis Today</i> , 2008, 137, 90-102.	4.4	145
3	Acidâˆ“Metal Balance of a Hydrocracking Catalyst:Â Ideal versus Nonideal Behavior. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 5159-5169.	3.7	125
4	Soft templated mesoporous carbons: Tuning the porosity for the adsorption of large organic pollutants. <i>Carbon</i> , 2017, 116, 528-546.	10.3	116
5	Characterization and Comparison of Fast Pyrolysis Bio-oils from Pinewood, Rapeseed Cake, and Wheat Straw Using ¹³ C NMR and Comprehensive GC-MS. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 4974-4985.	6.7	109
6	Alkene Protonation Enthalpy Determination from Fundamental Kinetic Modeling of Alkane Hydroconversion on Pt/Hâ€“(US)Y-Zeolite. <i>Journal of Catalysis</i> , 2001, 202, 324-339.	6.2	95
7	Catalyst design based on microkinetic models: Oxidative coupling of methane. <i>Catalysis Today</i> , 2011, 159, 29-36.	4.4	84
8	Kinetic modeling of pore mouth catalysis in the hydroconversion of n-octane on Pt-H-ZSM-22. <i>Journal of Catalysis</i> , 2003, 220, 399-413.	6.2	83
9	Effect of composition and preparation of supported MoO ₃ catalysts for anisole hydrodeoxygenation. <i>Chemical Engineering Journal</i> , 2018, 335, 120-132.	12.7	79
10	Formation of ZSM-22 Zeolite Catalytic Particles by Fusion of Elementary Nanorods. <i>Chemistry - A European Journal</i> , 2007, 13, 10070-10077.	3.3	77
11	Single-Event Microkinetics for Methanol to Olefins on H-ZSM-5. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 1491-1507.	3.7	73
12	Single-Event MicroKinetics: Catalyst design for complex reaction networks. <i>Journal of Catalysis</i> , 2013, 308, 352-362.	6.2	72
13	Kinetic modeling of the total oxidation of propane over CuO-CeO ₂ /Î³-Al ₂ O ₃ . <i>Applied Catalysis B: Environmental</i> , 2010, 95, 26-38.	20.2	67
14	First-principles based kinetic model for the hydrogenation of toluene. <i>Journal of Catalysis</i> , 2005, 236, 129-138.	6.2	64
15	The total oxidation of propane over supported Cu and Ce oxides: A comparison of single and binary metal oxides. <i>Journal of Catalysis</i> , 2010, 272, 109-120.	6.2	63
16	Oxidative coupling of methane: catalytic behaviour assessment via comprehensive microkinetic modelling. <i>Applied Catalysis B: Environmental</i> , 2014, 150-151, 496-505.	20.2	63
17	Hydrogenation kinetics of toluene on Pt/ZSM-22. <i>Chemical Engineering Journal</i> , 2002, 90, 117-129.	12.7	61
18	Alkylcarbenium Ion Concentrations in Zeolite Pores During Octane Hydrocracking on Pt/H-USY Zeolite. <i>Catalysis Letters</i> , 2004, 94, 81-88.	2.6	61

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19	A systematic methodology for kinetic modeling of chemical reactions applied to <i>n</i> -hexane hydroisomerization. <i>AIChE Journal</i> , 2015, 61, 880-892.	3.6	61
20	Single-Event Rate Parameters for the Hydrocracking of Cycloalkanes on Pt/US-Y Zeolites. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 1832-1844.	3.7	60
21	Methane aromatisation based upon elementary steps: Kinetic and catalyst descriptors. <i>Microporous and Mesoporous Materials</i> , 2012, 164, 302-312.	4.4	59
22	Spatial arrangement and acid strength effects on acid-base cooperatively catalyzed aldol condensation on aminosilica materials. <i>Journal of Catalysis</i> , 2015, 325, 19-25.	6.2	59
23	Perspective on Overcoming Scale-Up Hurdles for the Reductive Catalytic Fractionation of Lignocellulose Biomass. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 17035-17045.	3.7	59
24	Ethene oligomerization on Ni-SiO ₂ -Al ₂ O ₃ : Experimental investigation and Single-Event MicroKinetic modeling. <i>Applied Catalysis A: General</i> , 2015, 489, 292-304.	4.3	58
25	Tuning the Pore Geometry of Ordered Mesoporous Carbons for Enhanced Adsorption of Bisphenol-A. <i>Materials</i> , 2015, 8, 1652-1665.	2.9	56
26	Pt/H-ZSM-22 hydroisomerization catalysts optimization guided by Single-Event MicroKinetic modeling. <i>Journal of Catalysis</i> , 2012, 290, 165-176.	6.2	55
27	Pore mouth versus intracrystalline adsorption of isoalkanes on ZSM-22 and ZSM-23 zeolites under vapour and liquid phase conditions. <i>Chemical Communications</i> , 2003, , 1880.	4.1	53
28	Single-Event Microkinetic Model for Fischer-Tropsch Synthesis on Iron-Based Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 5879-5891.	3.7	52
29	Insights into the Reaction Mechanism of Ethanol Conversion into Hydrocarbons on H-ZSM-5. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12817-12821.	13.8	52
30	A comprehensive kinetic model for Cu catalyzed liquid phase glycerol hydrogenolysis. <i>Applied Catalysis B: Environmental</i> , 2017, 205, 469-480.	20.2	52
31	Experimental investigation of ethylene hydroformylation to propanal on Rh and Co based catalysts. <i>Applied Catalysis A: General</i> , 2014, 469, 357-366.	4.3	51
32	Pore mouth physisorption of alkanes on ZSM-22: estimation of physisorption enthalpies and entropies by additivity method. <i>Journal of Catalysis</i> , 2003, 218, 135-147.	6.2	50
33	Quantitative screening of an extended oxidative coupling of methane catalyst library. <i>Applied Catalysis B: Environmental</i> , 2016, 199, 252-259.	20.2	50
34	A Single-Event MicroKinetic model for α -ethylbenzene dealkylation/xylene isomerization on Pt/H-ZSM-5 zeolite catalyst. <i>Applied Catalysis A: General</i> , 2012, 425-426, 130-144.	4.3	49
35	Silanol-Assisted Aldol Condensation on Aminated Silica: Understanding the Arrangement of Functional Groups. <i>ChemCatChem</i> , 2014, 6, 255-264.	3.7	48
36	Effects of amine structure and base strength on acid-base cooperative aldol condensation. <i>Catalysis Today</i> , 2015, 246, 35-45.	4.4	47

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37	Oxidative Coupling of Methane: A Microkinetic Model Accounting for Intraparticle Surface-Intermediates Concentration Profiles. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 1825-1840.	3.7	46
38	Ion-exchange resin catalyzed transesterification of ethyl acetate with methanol: Gel versus macroporous resins. <i>Chemical Engineering Journal</i> , 2014, 242, 170-179.	12.7	46
39	Metal-organic frameworks as catalysts for sugar conversion into platform chemicals: State-of-the-art and prospects. <i>Coordination Chemistry Reviews</i> , 2019, 401, 213064.	18.8	45
40	Identification of efficient promoters and selectivity trends in high temperature Fischer-Tropsch synthesis over supported iron catalysts. <i>Applied Catalysis B: Environmental</i> , 2020, 273, 119028.	20.2	45
41	Optimization of soft templated mesoporous carbon synthesis using Definitive Screening Design. <i>Chemical Engineering Journal</i> , 2015, 259, 126-134.	12.7	44
42	Kinetic assessment of dry reforming of methane on Pt + Ni containing composite of fluorite-like structure. <i>Applied Catalysis B: Environmental</i> , 2016, 182, 513-524.	20.2	43
43	Skeletal isomerization of octadecane on bifunctional ZSM-23 zeolite catalyst. <i>Catalysis Letters</i> , 2005, 100, 235-242.	2.6	42
44	Pd nanoparticle and molecular Pd ²⁺ leaching pathways for a strongly acid versus strongly basic resin supported Pd nanoparticle catalyst in Suzuki coupling. <i>Chemical Engineering Journal</i> , 2019, 374, 576-588.	12.7	41
45	Single-Event MicroKinetics for coke formation in catalytic cracking. <i>Catalysis Today</i> , 2005, 107-108, 619-629.	4.4	39
46	The role of water in the reusability of aminated silica catalysts for aldol reactions. <i>Journal of Catalysis</i> , 2018, 361, 51-61.	6.2	39
47	Effect of Co incorporation and support selection on deoxygenation selectivity and stability of (Co)Mo catalysts in anisole HDO. <i>Applied Catalysis A: General</i> , 2019, 571, 61-70.	4.3	39
48	Information-Driven Catalyst Design Based on High-Throughput Intrinsic Kinetics. <i>Catalysts</i> , 2015, 5, 1948-1968.	3.5	37
49	Relumped single-event microkinetic model for alkane hydrocracking on shape-selective catalysts: catalysis on ZSM-22 pore mouths, bridge acid sites and micropores. <i>Chemical Engineering Science</i> , 2004, 59, 4765-4772.	3.8	36
50	Bifunctional catalytic isomerization of decane over MTT-type aluminosilicate zeolite crystals with siliceous rim. <i>Journal of Catalysis</i> , 2006, 239, 451-459.	6.2	36
51	n- and Isoalkane Adsorption Mechanisms on Zeolite MCM-22. <i>Journal of Physical Chemistry B</i> , 2006, 110, 8551-8558.	2.6	35
52	Naphthalene hydrogenation over a NiMo/β-Al ₂ O ₃ catalyst: Experimental study and kinetic modelling. <i>Catalysis Today</i> , 2008, 130, 231-242.	4.4	35
53	Role of Surface Hydroxyl Species in Copper-Catalyzed Hydrogenation of Ketones. <i>ACS Catalysis</i> , 2018, 8, 7539-7548.	11.2	35
54	Active phases for high temperature Fischer-Tropsch synthesis in the silica supported iron catalysts promoted with antimony and tin. <i>Applied Catalysis B: Environmental</i> , 2021, 292, 120141.	20.2	35

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55	Tunable Large Pore Mesoporous Carbons for the Enhanced Adsorption of Humic Acid. <i>Langmuir</i> , 2017, 33, 6769-6777.	3.5	34
56	Assignment of capacitance spectroscopy signals of CIGS solar cells to effects of non-ohmic contacts. <i>Solar Energy Materials and Solar Cells</i> , 2013, 112, 78-83.	6.2	33
57	Steering linear 1-alkene, propene or gasoline yields in ethene oligomerization via the interplay between nickel and acid sites. <i>Chemical Engineering Science</i> , 2017, 173, 49-59.	3.8	32
58	Design of Optimum Zeolite Pore System for Central Hydrocracking of Long-Chain n-Alkanes based on a Single-Event Microkinetic Model. <i>Topics in Catalysis</i> , 2009, 52, 1251-1260.	2.8	31
59	n-Hexadecane hydrocracking Single-Event MicroKinetics on Pt/H-beta. <i>Applied Catalysis A: General</i> , 2012, 441-442, 10-20.	4.3	31
60	Influence of the zeolite composition on the hydro-isomerisation and hydrocracking of alkanes on Pt/USY zeolites: modelling of the reaction kinetics using an adsorption–reaction approach. <i>Applied Catalysis A: General</i> , 2003, 246, 17-28.	4.3	30
61	Kinetic modeling of the total oxidation of propane over anatase and vanadia sputter deposited catalysts. <i>Applied Catalysis B: Environmental</i> , 2009, 90, 295-306.	20.2	30
62	Single-Event MicroKinetics of Aromatics Hydrogenation on Pt/H-ZSM22. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 12933-12945.	3.7	29
63	Selective removal of hydrogen sulfide from simulated biogas streams using sterically hindered amine adsorbents. <i>Chemical Engineering Journal</i> , 2020, 379, 122349.	12.7	29
64	Efficient Promoters and Reaction Paths in the CO ₂ Hydrogenation to Light Olefins over Zirconia-Supported Iron Catalysts. <i>ACS Catalysis</i> , 2022, 12, 3211-3225.	11.2	29
65	Fischer-Tropsch Synthesis: Development of a Microkinetic Model for Metal Catalysis. <i>Oil and Gas Science and Technology</i> , 2006, 61, 489-496.	1.4	28
66	Unraveling Diffusion and Other Shape Selectivity Effects in ZSM5 Using n-Hexane Hydroconversion Single-Event Microkinetics. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 15333-15347.	3.7	28
67	Pyridine hydrodenitrogenation kinetics over a sulphided NiMo/Al ₂ O ₃ catalyst. <i>Fuel</i> , 2016, 171, 253-262.	6.4	28
68	Improving the efficiency of the Diels–Alder process by using flow chemistry and zeolite catalysis. <i>Green Chemistry</i> , 2017, 19, 237-248.	9.0	28
69	Kinetic Modeling of the Conversion of Complex Hydrocarbon Feedstocks by Acid Catalysts. <i>Chemical Engineering and Technology</i> , 2003, 26, 509-514.	1.5	26
70	A single-event microkinetic analysis of the catalytic cracking of (cyclo)alkanes on an equilibrium catalyst in the absence of coke formation. <i>Chemical Engineering Science</i> , 2007, 62, 5033-5038.	3.8	26
71	Open Data in Catalysis: From Today's Big Picture to the Future of Small Data. <i>ChemCatChem</i> , 2021, 13, 836-850.	3.7	26
72	Ethylene oligomerization on nickel catalysts on a solid acid support: From New mechanistic insights to tunable bifunctionality. <i>Applied Catalysis A: General</i> , 2021, 624, 118296.	4.3	25

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73	Microkinetic evaluation of normal and inverse kinetic isotope effects during methane steam reforming to synthesis gas over a Ni/NiAl ₂ O ₄ model catalyst. Applied Catalysis A: General, 2015, 492, 231-242.	4.3	24
74	Catalytic Reductive Aminolysis of Reducing Sugars: Elucidation of Reaction Mechanism. ACS Catalysis, 2018, 8, 4201-4212.	11.2	24
75	Model-Based Catalyst Selection for the Oxidative Coupling of Methane in an Adiabatic Fixed-Bed Reactor. Industrial & Engineering Chemistry Research, 2018, 57, 16295-16307.	3.7	24
76	Ethanol dehydrogenation over Cu catalysts promoted with Ni: Stability control. Applied Catalysis A: General, 2020, 591, 117401.	4.3	24
77	Catalytic cracking and coking of (cyclo)alkane/1-octene mixtures on an equilibrium catalyst. Applied Catalysis A: General, 2006, 314, 184-199.	4.3	23
78	A simple correction method for series resistance and inductance on solar cell admittance spectroscopy. Solar Energy Materials and Solar Cells, 2010, 94, 966-970.	6.2	23
79	About RC-like contacts in deep level transient spectroscopy and Cu(In,Ga)Se ₂ solar cells. Progress in Photovoltaics: Research and Applications, 2012, 20, 588-594.	8.1	23
80	Adsorption and reaction in the transesterification of ethyl acetate with methanol on Lewatit K1221. Journal of Molecular Catalysis A, 2012, 359, 57-68.	4.8	23
81	Single-Event MicroKinetics (SEMK) for Methanol to Hydrocarbons (MTH) on H-ZSM-23. Catalysis Today, 2013, 215, 224-232.	4.4	23
82	Pyridine hydrodenitrogenation over industrial NiMo/γ-Al ₂ O ₃ catalyst: Application of gas phase kinetic models to liquid phase reactions. Fuel, 2014, 125, 206-218.	6.4	23
83	A Single-Event MicroKinetic assessment of n-alkane hydroconversion on ultrastable Y zeolites after Atomic Layer Deposition of alumina. Journal of Catalysis, 2014, 311, 433-446.	6.2	23
84	Challenges and opportunities for molecule-based management of chemical processes. Current Opinion in Chemical Engineering, 2016, 13, 142-149.	7.8	23
85	Descriptor-property relationships in heterogeneous catalysis: exploiting synergies between statistics and fundamental kinetic modelling. Catalysis Science and Technology, 2019, 9, 3109-3125.	4.1	23
86	Signature of a back contact barrier in DLTS spectra. Journal of Applied Physics, 2011, 109, .	2.5	22
87	A Novel Technology for Natural Gas Conversion by Means of Integrated Oxidative Coupling and Dry Reforming of Methane. Chemie-Ingenieur-Technik, 2014, 86, 1855-1870.	0.8	22
88	Analytical Techniques for Electrically Active Defect Detection. Semiconductors and Semimetals, 2015, 91, 205-250.	0.7	22
89	NiCuMo-SiO ₂ catalyst for pyrolysis oil upgrading: Model acidic treatment study. Applied Catalysis A: General, 2019, 573, 1-12.	4.3	22
90	Characterization of flexible thin film CIGSe solar cells grown on different metallic foil substrates. Energy Procedia, 2010, 2, 109-117.	1.8	21

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91	Maximizing n-alkane hydroisomerization: the interplay of phase, feed complexity and zeolite catalyst mixing. <i>Catalysis Science and Technology</i> , 2015, 5, 2053-2058.	4.1	21
92	Shape of Cobalt and Platinum Nanoparticles Under a CO Atmosphere: A Combined In Situ TEM and Computational Catalysis Study. <i>ACS Catalysis</i> , 2019, 9, 7449-7456.	11.2	21
93	Kinetic Modeling of Hydrotreating for Enhanced Upgrading of Light Cycle Oil. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 13064-13075.	3.7	21
94	Towards high-performance heterogeneous palladium nanoparticle catalysts for sustainable liquid-phase reactions. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 1556-1618.	3.7	21
95	A Unified Single-Event Microkinetic Model for Alkane Hydroconversion in Different Aggregation States on Pt/H ⁺ USY-Zeolites. <i>Journal of Physical Chemistry B</i> , 2006, 110, 6750-6758.	2.6	20
96	Facile Synthesis of Cooperative Acid-Base Catalysts by Clicking Cysteine and Cysteamine on an Ethylene-Bridged Periodic Mesoporous Organosilica. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 2144-2151.	2.0	20
97	Synergy between shape selective and non-shape selective bifunctional zeolites modelled via the Single-Event MicroKinetic (SEMK) methodology. <i>Chemical Engineering Science</i> , 2010, 65, 174-178.	3.8	19
98	Simulation of an industrial riser for catalytic cracking in the presence of coking using Single-Event MicroKinetics. <i>Catalysis Today</i> , 2010, 150, 319-331.	4.4	19
99	Oxidative Coupling of Methane: Opportunities for Microkinetic Model-Assisted Process Implementations. <i>Chemical Engineering and Technology</i> , 2016, 39, 1996-2010.	1.5	19
100	Bridging the gap between liquid and vapor phase hydrocracking. <i>Catalysis Today</i> , 2006, 111, 94-102.	4.4	18
101	A Microkinetic Vision on High-Throughput Catalyst Formulation and Optimization: Development of an Appropriate Software Tool. <i>Topics in Catalysis</i> , 2010, 53, 64-76.	2.8	18
102	Hydrodeoxygenation of phenolics in liquid phase over supported MoO ₃ and carburized analogues. <i>Biomass Conversion and Biorefinery</i> , 2017, 7, 343-359.	4.6	18
103	Electrical properties of extended defects in strain relaxed GeSn. <i>Applied Physics Letters</i> , 2018, 113, 022102.	3.3	18
104	A detailed experimental and kinetic modeling study on pyrolysis and oxidation of oxymethylene ether-2 (OME-2). <i>Combustion and Flame</i> , 2022, 238, 111914.	5.2	18
105	Tailoring the physical and catalytic properties of lanthanum oxycarbonate nanoparticles. <i>Applied Catalysis A: General</i> , 2017, 536, 104-112.	4.3	17
106	Effect of Ion Exchange Resin Functionality on Catalytic Activity and Leaching of Palladium Nanoparticles in Suzuki Cross-Coupling Reactions. <i>ChemCatChem</i> , 2017, 9, 451-457.	3.7	17
107	Role of Keto-Enol Tautomerization in the Copper-Catalyzed Hydrogenation of Ketones. <i>ACS Catalysis</i> , 2019, 9, 3831-3839.	11.2	17
108	Aminated poly(ethylene glycol) methacrylate resins as stable heterogeneous catalysts for the aldol reaction in water. <i>Journal of Catalysis</i> , 2020, 381, 540-546.	6.2	17

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109	Simulation of a slurry-bubble column reactor for Fischer-Tropsch synthesis using single-event microkinetics. <i>AIChE Journal</i> , 2009, 55, 2159-2170.	3.6	16
110	PdZn nanoparticle catalyst formation for ethanol dehydrogenation: Active metal impregnation vs incorporation. <i>Applied Catalysis A: General</i> , 2018, 555, 12-19.	4.3	16
111	Autocatalytic Role of Molecular Hydrogen in Copper-Catalyzed Transfer Hydrogenation of Ketones. <i>ACS Catalysis</i> , 2019, 9, 8073-8082.	11.2	16
112	Co-metal induced stabilization of alumina-supported copper: impact on the hydrogenolysis of glycerol to 1,2-propanediol. <i>Catalysis Communications</i> , 2020, 146, 106134.	3.3	16
113	Catalyst screening for the oxidative coupling of methane: from isothermal to adiabatic operation via microkinetic simulations. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 584-596.	3.7	16
114	Multi-output machine learning models for kinetic data evaluation : A Fischer-Tropsch synthesis case study. <i>Chemical Engineering Journal</i> , 2022, 446, 137186.	12.7	16
115	n-Alkane hydroconversion on Zeogrid and colloidal ZSM-5 assembled from aluminosilicate nanoslabs of MFI framework type. <i>Chemical Communications</i> , 2003, , 1888.	4.1	15
116	Kinetic models for catalytic reactions from first principles: benzene hydrogenation. <i>Molecular Physics</i> , 2004, 102, 267-272.	1.7	15
117	Single-event microkinetics for coke formation during the catalytic cracking of (cyclo)alkane/1-octene mixtures. <i>Catalysis Today</i> , 2007, 127, 17-30.	4.4	15
118	A new methodology to probe Shape Selectivity in Porous Adsorbents. <i>Microporous and Mesoporous Materials</i> , 2008, 116, 607-613.	4.4	15
119	An accurate analytical approximation to the capacitance transient amplitude in deep level transient spectroscopy for fitting carrier capture data. <i>Review of Scientific Instruments</i> , 2008, 79, 093902.	1.3	15
120	Catalytic and molecular separation properties of Zeogrids and Zeotiles. <i>Catalysis Today</i> , 2011, 168, 17-27.	4.4	15
121	Extension of the Single-Event Microkinetic Model to Alkyl Substituted Monoaromatics Hydrogenation on a Pt Catalyst. <i>ACS Catalysis</i> , 2012, 2, 1305-1318.	11.2	15
122	Multiscale Aspects in Hydrocracking. <i>Advances in Catalysis</i> , 2016, 59, 109-238.	0.2	15
123	Quantifying the dominant factors in Cu catalyst deactivation during glycerol hydrogenolysis. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 54, 270-277.	5.8	15
124	Rational design of nucleophilic amine sites via computational probing of steric and electronic effects. <i>Catalysis Today</i> , 2019, 334, 96-103.	4.4	15
125	Integrated Stefan-Maxwell, Mean Field, and Single-Event Microkinetic Methodology for Simultaneous Diffusion and Reaction inside Microporous Materials. <i>Journal of Physical Chemistry C</i> , 2014, 118, 22053-22068.	3.1	14
126	A Single-Event MicroKinetic model for the cobalt catalyzed Fischer-Tropsch Synthesis. <i>Applied Catalysis A: General</i> , 2016, 524, 149-162.	4.3	14

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127	Synthesis of L-serine modified benzene bridged periodic mesoporous organosilica and its catalytic performance towards aldol condensations. <i>Microporous and Mesoporous Materials</i> , 2017, 251, 1-8.	4.4	14
128	Fast pyrolysis oil stabilization kinetics over a Ni-Cu catalyst using propionic acid as a model compound. <i>Applied Catalysis B: Environmental</i> , 2018, 233, 46-57.	20.2	14
129	Operando computational catalysis: shape, structure, and coverage under reaction conditions. <i>Current Opinion in Chemical Engineering</i> , 2019, 23, 85-91.	7.8	14
130	Balance between model detail and experimental information <sc>in</sc> steam methane reforming <sc>over a Ni/MgO@SiO₂ catalyst. <i>AIChE Journal</i> , 2019, 65, 1222-1233.	3.6	13
131	Quantification of the global and regional impacts of gas flaring on human health via spatial differentiation. <i>Environmental Pollution</i> , 2021, 291, 118213.	7.5	13
132	Anisole Hydrotreatment Kinetics on CoMo Catalyst in the Absence of Sulfur: Experimental Investigation and Model Construction. <i>Energy & Fuels</i> , 2017, 31, 7082-7092.	5.1	12
133	Formation and stability of an active PdZn nanoparticle catalyst on a hydrotalcite-based support for ethanol dehydrogenation. <i>Catalysis Science and Technology</i> , 2017, 7, 3715-3727.	4.1	12
134	Large-Scale Exploitation of Bimodal Reaction Sequences Including Degradation: Comparison of Jet Loop and Trickle Bed Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 14192-14199.	3.7	12
135	Kinetics of homogeneous and heterogeneous reactions in the reductive aminolysis of glucose with dimethylamine. <i>Applied Catalysis B: Environmental</i> , 2018, 227, 161-169.	20.2	12
136	Synthesis and support interaction effects on the palladium nanoparticle catalyst characteristics. <i>Advances in Catalysis</i> , 2019, , 1-120.	0.2	12
137	Machine learning based interpretation of microkinetic data: a Fischer-Tropsch synthesis case study. <i>Reaction Chemistry and Engineering</i> , 2021, 7, 101-110.	3.7	12
138	Impact of oxygen vacancies in Ni supported mixed oxide catalysts on anisole hydrodeoxygenation. <i>Catalysis Communications</i> , 2022, 164, 106436.	3.3	12
139	Development of an Integrated Informatics Toolbox: HT Kinetic and Virtual Screening. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2007, 10, 85-97.	1.1	11
140	Extension of the Single-Event Methodology to Metal Catalysis: Application to Fischer-Tropsch Synthesis. <i>Oil and Gas Science and Technology</i> , 2011, 66, 423-435.	1.4	11
141	Interplay of Kinetics and Thermodynamics in Catalytic Steam Methane Reforming over Ni/MgO-SiO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 1148-1158.	3.7	11
142	Design of a Mesoscale Continuous-Flow Route toward Lithiated Methoxyallene. <i>ChemSusChem</i> , 2018, 11, 2248-2254.	6.8	11
143	Kinetic evaluation of chitosan-derived catalysts for the aldol reaction in water. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 1948-1956.	3.7	11
144	Metal-organic frameworks as catalysts for fructose conversion into 5-hydroxymethylfurfural: Catalyst screening and parametric study. <i>Applied Organometallic Chemistry</i> , 2021, 35, e6419.	3.5	11

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145	Insights into the Reaction Mechanism of Ethanol Conversion into Hydrocarbons on H ₂ ZSM-5. <i>Angewandte Chemie</i> , 2016, 128, 13009-13013.	2.0	10
146	Tuning component enrichment in amino acid functionalized (organo)silicas. <i>Catalysis Communications</i> , 2017, 88, 85-89.	3.3	10
147	Unravelling the influence of catalyst properties on light olefin production via Fischer-Tropsch synthesis: A descriptor space investigation using Single-Event MicroKinetics. <i>Chemical Engineering Journal</i> , 2021, 419, 129633.	12.7	10
148	Oxygen functionality and chain length effects in HDO: Impact of competitive adsorption on reactivity. <i>Fuel</i> , 2022, 308, 121940.	6.4	10
149	Reaction Pathways of 1-Cyclohexyloctane in Admixture with Dodecane on Pt/H ₂ ZSM-22 Zeolite in Three-Phase Hydroconversion. <i>Journal of Catalysis</i> , 2001, 198, 29-40.	6.2	9
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