

Joris Thybaut

List of Publications by Year in descending order

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201
papers

5,358
citations

71102

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203
all docs

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docs citations

203
times ranked

4968
citing authors

#	ARTICLE	IF	CITATIONS
1	Microkinetic model validation for Fischer-Tropsch synthesis at methanation conditions based on steady state isotopic transient kinetic analysis. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 105, 191-209.	5.8	8
2	Oxygen functionality and chain length effects in HDO: Impact of competitive adsorption on reactivity. <i>Fuel</i> , 2022, 308, 121940.	6.4	10
3	Comparison of jet loop and trickle-bed reactor performance in large-scale exploitation of glucose reductive aminolysis. <i>Catalysis Today</i> , 2022, 387, 119-127.	4.4	4
4	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
5	Unravelling the redox mechanism and kinetics of a highly active and selective Ni-based material for the oxidative dehydrogenation of ethane. <i>Reaction Chemistry and Engineering</i> , 2022, 7, 619-640.	3.7	8
6	The intricacies of the "steady-state" regime in methanol-to-hydrocarbon experimentation over H-ZSM-5. <i>Catalysis Science and Technology</i> , 2022, 12, 855-868.	4.1	6
7	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
8	Kinetic Modeling of Ethene Oligomerization on Bifunctional Nickel and Acid β Zeolites. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 3860-3876.	3.7	5
9	Impact of oxygen vacancies in Ni supported mixed oxide catalysts on anisole hydrodeoxygenation. <i>Catalysis Communications</i> , 2022, 164, 106436.	3.3	12
10	Mixture effects in alkane/cycloalkane hydroconversion over Pt/HUSY: Carbon number impact. <i>Fuel</i> , 2022, 318, 123651.	6.4	1
11	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
12	Computational Fluid Dynamics Study of a Pharmaceutical Full-Scale Hydrogenation Reactor. <i>Processes</i> , 2022, 10, 1163.	2.8	0
13	The secondary chemistry of synthetic fuel oxymethylene ethers unraveled: Theoretical and kinetic modeling of methoxymethyl formate and formic anhydride decomposition. <i>Journal of the Energy Institute</i> , 2022, 104, 46-54.	5.3	3
14	Environmental Performance Assessment of a Novel Process Concept for Propanol Production from Widely Available and Wasted Methane Sources. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 11071-11079.	3.7	5
15	From catalyst to process: bridging the scales in modeling the OCM reaction. <i>Catalysis Today</i> , 2021, 365, 35-45.	4.4	5
16	A comprehensive model for the role of water and silanols in the amine catalyzed aldol reaction. <i>Chemical Engineering Journal</i> , 2021, 404, 127070.	12.7	7
17	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
18	Impact of the Spatial Distribution of Active Material on Bifunctional Hydrocracking. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 6357-6378.	3.7	6

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19	Iterative lumping approach for representing lipid feedstocks in fatty acid distillation simulation and optimization. <i>AIChE Journal</i> , 2021, 67, e17235.	3.6	3
20	Simulation of an Industrial-Scale Reactive Liquid-Liquid Extraction Tower Using Polar PC-SAFT Toward Understanding and Improving the Hydrolysis of Triglycerides. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 4735-4743.	6.7	3
21	A Disruptive Innovation for Upgrading Methane to C3 Commodity Chemicals. <i>Johnson Matthey Technology Review</i> , 2021, 65, 311-329.	1.0	7
22	Assessment of Phosphate Ore Digestion Kinetics and Mixing Behavior: A First Step in Unravelling NP-Fertilizer Production. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 16599-16606.	3.7	4
23	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
24	Productivity Enhancement for the Oxidative Coupling of Methane in Adiabatic Layered-Bed Reactors. <i>ACS Engineering Au</i> , 2021, 1, 85-95.	5.1	2
25	Interplay of Metal-Acid Balance and Methylcyclohexane Admixture Effect on <i>n</i> -Octane Hydroconversion over Pt/HUSY. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 12505-12520.	3.7	2
26	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
27	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
28	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
29	Hydrocracking of complex mixtures: From bulk properties, over fundamental kinetics to detailed product composition. <i>Catalysis Today</i> , 2021, 378, 189-201.	4.4	2
30	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
31	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
32	Investigation of recombination mechanisms in Cu(In,Ga)Se ₂ solar cells using numerical modelling. <i>Solar Energy</i> , 2021, 228, 464-473.	6.1	7
33	Kinetics Assessment of the Homogeneously Catalyzed Hydroformylation of Ethylene on an Rh Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 16665-16681.	3.7	1
34	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
35	Ethanol dehydrogenation over Cu catalysts promoted with Ni: Stability control. <i>Applied Catalysis A: General</i> , 2020, 591, 117401.	4.3	24
36	Techno-economic evaluation of squalene recovery from oil deodorizer distillates. <i>Chemical Engineering Research and Design</i> , 2020, 154, 122-134.	5.6	9

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37	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
38	Stabilization time modeling for hydroprocessing: Identification of the dominant factors. <i>Chemical Engineering Science</i> , 2020, 213, 115392.	3.8	1
39	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
40	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
41	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
42	Catalyst screening for the oxidative coupling of methane: from isothermal to adiabatic operation <i>via</i> microkinetic simulations. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 584-596.	3.7	16
43	Multivariate Analysis of Industrial Biorefinery Processes: Strategy for Improved Process Understanding with Case Studies in Fatty Acid Production. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 7732-7745.	3.7	8
44	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
45	Accelerating Kinetic Parameter Identification by Extracting Information from Transient Data: A Hydroprocessing Study Case. <i>Catalysts</i> , 2020, 10, 361.	3.5	3
46	Critical Assessment of the Thermodynamics in Acidic Resin-Catalyzed Esterifications. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 22079-22091.	3.7	3
47	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
48	Autocatalytic Role of Molecular Hydrogen in Copper-Catalyzed Transfer Hydrogenation of Ketones. <i>ACS Catalysis</i> , 2019, 9, 8073-8082.	11.2	16
49	Catalyst Stability Assessment in a Lab-Scale Liquid-Solid (LS) ² Plug-Flow Reactor. <i>Catalysts</i> , 2019, 9, 755.	3.5	8
50	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
51	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
52	Kinetic Modeling of Hydrotreating for Enhanced Upgrading of Light Cycle Oil. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 13064-13075.	3.7	21
53	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
54	Descriptor-property relationships in heterogeneous catalysis: exploiting synergies between statistics and fundamental kinetic modelling. <i>Catalysis Science and Technology</i> , 2019, 9, 3109-3125.	4.1	23

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55	Operando computational catalysis: shape, structure, and coverage under reaction conditions. <i>Current Opinion in Chemical Engineering</i> , 2019, 23, 85-91.	7.8	14
56	Role of Keto-Enol Tautomerization in the Copper-Catalyzed Hydrogenation of Ketones. <i>ACS Catalysis</i> , 2019, 9, 3831-3839.	11.2	17
57	Synthesis and support interaction effects on the palladium nanoparticle catalyst characteristics. <i>Advances in Catalysis</i> , 2019, , 1-120.	0.2	12
58	First-Principles-Based Simulation of an Industrial Ethanol Dehydration Reactor. <i>Catalysts</i> , 2019, 9, 921.	3.5	6
59	Balance between model detail and experimental information <sc>steam methane reforming</sc> over a Ni/MgO-SiO ₂ catalyst. <i>AIChE Journal</i> , 2019, 65, 1222-1233.	3.6	13
60	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
61	NiCuMo-SiO ₂ catalyst for pyrolysis oil upgrading: Model acidic treatment study. <i>Applied Catalysis A: General</i> , 2019, 573, 1-12.	4.3	22
62	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
63	Model based analysis of the effect of 2-ethylphenol addition to n-decane in fluid catalytic cracking over a series of zeolites. <i>Chemical Engineering Journal</i> , 2019, 377, 120090.	12.7	5
64	Complex reaction network generation for Steady State Isotopic Transient Kinetic Analysis: Fischer-Tropsch Synthesis. <i>Computers and Chemical Engineering</i> , 2019, 125, 594-605.	3.8	4
65	Analysis of volume-to-surface ratio effects on methane oxidative coupling using microkinetic modeling. <i>AIChE Journal</i> , 2018, 64, 2603-2611.	3.6	6
66	Enhancing Zeolite Performance by Catalyst Shaping in a Mesoscale Continuous-Flow Diels-Alder Process. <i>ChemSusChem</i> , 2018, 11, 1686-1693.	6.8	6
67	Catalytic Reductive Aminolysis of Reducing Sugars: Elucidation of Reaction Mechanism. <i>ACS Catalysis</i> , 2018, 8, 4201-4212.	11.2	24
68	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
69	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
70	Non-Isothermal Modeling of Dark Current-Voltage Measurements of a CIGS Solar Cell. <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, P50-P54.	1.8	5
71	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
72	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

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73	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
74	Model-Based Catalyst Selection for the Oxidative Coupling of Methane in an Adiabatic Fixed-Bed Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 16295-16307.	3.7	24
75	Impact of band to band tunneling in In _{0.53} Ga _{0.47} As tunnel diodes on the deep level transient spectra. <i>Applied Physics Letters</i> , 2018, 113, 232101.	3.3	1
76	Role of Surface Hydroxyl Species in Copper-Catalyzed Hydrogenation of Ketones. <i>ACS Catalysis</i> , 2018, 8, 7539-7548.	11.2	35
77	Electrical properties of extended defects in strain relaxed GeSn. <i>Applied Physics Letters</i> , 2018, 113, 022102.	3.3	18
78	Design of a Mesoscale Continuous-Flow Route toward Lithiated Methoxyallene. <i>ChemSusChem</i> , 2018, 11, 2248-2254.	6.8	11
79	A comprehensive kinetic model for Cu catalyzed liquid phase glycerol hydrogenolysis. <i>Applied Catalysis B: Environmental</i> , 2017, 205, 469-480.	20.2	52
80	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
81	A three-phase Robinson-Mahoney reactor as a tool for intrinsic kinetic measurements: Determination of gas-liquid hold up and volumetric mass transfer coefficient. <i>Chemical Engineering Science</i> , 2017, 170, 694-704.	3.8	7
82	Tailoring the physical and catalytic properties of lanthanum oxycarbonate nanoparticles. <i>Applied Catalysis A: General</i> , 2017, 536, 104-112.	4.3	17
83	Soft templated mesoporous carbons: Tuning the porosity for the adsorption of large organic pollutants. <i>Carbon</i> , 2017, 116, 528-546.	10.3	116
84	Analytical Rate Expressions Accounting for the Elementary Steps in Benzene Hydrogenation on Pt. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 12953-12962.	3.7	8
85	Tunable Large Pore Mesoporous Carbons for the Enhanced Adsorption of Humic Acid. <i>Langmuir</i> , 2017, 33, 6769-6777.	3.5	34
86	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
87	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
88	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
89	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
90	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

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91	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
92	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
93	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
94	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
95	Understanding and optimization of chemical reactor performance for bimodal reaction sequences. <i>AIChE Journal</i> , 2017, 63, 111-119.	3.6	6
96	Tuning component enrichment in amino acid functionalized (organo)silicas. <i>Catalysis Communications</i> , 2017, 88, 85-89.	3.3	10
97	Multiscale Aspects in Hydrocracking. <i>Advances in Catalysis</i> , 2016, 59, 109-238.	0.2	15
98	A Single-Event Microkinetic model for ethylene hydroformylation to propanal on Rh and Co based catalysts. <i>Applied Catalysis A: General</i> , 2016, 524, 32-44.	4.3	5
99	Challenges and opportunities for molecule-based management of chemical processes. <i>Current Opinion in Chemical Engineering</i> , 2016, 13, 142-149.	7.8	23
100	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
101	Oxidative Coupling of Methane: Opportunities for Microkinetic Model-Assisted Process Implementations. <i>Chemical Engineering and Technology</i> , 2016, 39, 1996-2010.	1.5	19
102	Insights into the Reaction Mechanism of Ethanol Conversion into Hydrocarbons on H-ZSM-5. <i>Angewandte Chemie</i> , 2016, 128, 13009-13013.	2.0	10
103	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
104	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, 2144-2151.	2.0	20
105	Quantitative screening of an extended oxidative coupling of methane catalyst library. <i>Applied Catalysis B: Environmental</i> , 2016, 199, 252-259.	20.2	50
106	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
107	Pyridine hydrodenitrogenation kinetics over a sulphided NiMo/γ-Al ₂ O ₃ catalyst. <i>Fuel</i> , 2016, 171, 253-262.	6.4	28
108	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

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109	Development of a control strategy for efficient operation of a CSTR reactor. , 2015, , .		1
110	Efficient continuous-flow benzotriazole activation and coupling of amino acids. Journal of Flow Chemistry, 2015, 5, 220-227.	1.9	6
111	Information-Driven Catalyst Design Based on High-Throughput Intrinsic Kinetics. Catalysts, 2015, 5, 1948-1968.	3.5	37
112	Spatial arrangement and acid strength effects on acidâ€“base cooperatively catalyzed aldol condensation on aminosilica materials. Journal of Catalysis, 2015, 325, 19-25.	6.2	59
113	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
114	Effects of amine structure and base strength on acidâ€“base cooperative aldol condensation. Catalysis Today, 2015, 246, 35-45.	4.4	47
115	Analytical Techniques for Electrically Active Defect Detection. Semiconductors and Semimetals, 2015, 91, 205-250.	0.7	22
116	Tuning the Pore Geometry of Ordered Mesoporous Carbons for Enhanced Adsorption of Bisphenol-A. Materials, 2015, 8, 1652-1665.	2.9	56
117	Deep level transient spectroscopy measurements on Mo/Cu(In,Ga)Se ₂ /metal structure. Thin Solid Films, 2015, 582, 371-374.	1.8	1
118	Maximizing n-alkane hydroisomerization: the interplay of phase, feed complexity and zeolite catalyst mixing. Catalysis Science and Technology, 2015, 5, 2053-2058.	4.1	21
119	A systematic methodology for kinetic modeling of chemical reactions applied to n-hexane hydroisomerization. AIChE Journal, 2015, 61, 880-892.	3.6	61
120	Ethene oligomerization on Ni-SiO ₂ -Al ₂ O ₃ : Experimental investigation and Single-Event MicroKinetic modeling. Applied Catalysis A: General, 2015, 489, 292-304.	4.3	58
121	Optimization of soft templated mesoporous carbon synthesis using Definitive Screening Design. Chemical Engineering Journal, 2015, 259, 126-134.	12.7	44
122	Kinetic Study of Acetic Acid Esterification with Methanol Catalyzed by Gel and Macroporous Resins. Journal of Ion Exchange, 2014, 25, 234-241.	0.3	5
123	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
124	Silanolâ€“Assisted Aldol Condensation on Aminated Silica: Understanding the Arrangement of Functional Groups. ChemCatChem, 2014, 6, 255-264.	3.7	48
125	Experimental investigation of ethylene hydroformylation to propanal on Rh and Co based catalysts. Applied Catalysis A: General, 2014, 469, 357-366.	4.3	51
126	Oxidative coupling of methane: catalytic behaviour assessment via comprehensive microkinetic modelling. Applied Catalysis B: Environmental, 2014, 150-151, 496-505.	20.2	63

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127	Pyridine hydrodenitrogenation over industrial NiMo/Al ₂ O ₃ catalyst: Application of gas phase kinetic models to liquid phase reactions. <i>Fuel</i> , 2014, 125, 206-218.	6.4	23
128	A Single-Event MicroKinetic assessment of n-alkane hydroconversion on ultrastable Y zeolites after Atomic Layer Deposition of alumina. <i>Journal of Catalysis</i> , 2014, 311, 433-446.	6.2	23
129	Modeling of capacitance transients of thin-film solar cells: A valuable tool to gain information on perturbing layers or interfaces. <i>Applied Physics Letters</i> , 2014, 104, 053502.	3.3	8
130	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
131	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
132	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
133	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
134	Single-Event MicroKinetics (SEMK) for Methanol to Hydrocarbons (MTH) on H-ZSM-23. <i>Catalysis Today</i> , 2013, 215, 224-232.	4.4	23
135	Single-Event MicroKinetics: Catalyst design for complex reaction networks. <i>Journal of Catalysis</i> , 2013, 308, 352-362.	6.2	72
136	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
137	Single-Event Microkinetics for Methanol to Olefins on H-ZSM-5. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 1491-1507.	3.7	73
138	Methane aromatisation based upon elementary steps: Kinetic and catalyst descriptors. <i>Microporous and Mesoporous Materials</i> , 2012, 164, 302-312.	4.4	59
139	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
140	n-Hexadecane hydrocracking Single-Event MicroKinetics on Pt/H-beta. <i>Applied Catalysis A: General</i> , 2012, 441-442, 10-20.	4.3	31
141	About RC-like contacts in deep level transient spectroscopy and Cu(In,Ga)Se ₂ solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2012, 20, 588-594.	8.1	23
142	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
143	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
144	Adsorption and reaction in the transesterification of ethyl acetate with methanol on Lewatit K1221. <i>Journal of Molecular Catalysis A</i> , 2012, 359, 57-68.	4.8	23

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145	Single-Event MicroKinetics of Aromatics Hydrogenation on Pt/H-ZSM22. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 12933-12945.	3.7	29
146	Modeling of Toluene Acetylation with Acetic Anhydride on H-USY Zeolite. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 11822-11832.	3.7	6
147	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
148	Signature of a back contact barrier in DLTS spectra. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	22
149	Catalyst design based on microkinetic models: Oxidative coupling of methane. <i>Catalysis Today</i> , 2011, 159, 29-36.	4.4	84
150	Catalytic and molecular separation properties of Zeogrids and Zeotiles. <i>Catalysis Today</i> , 2011, 168, 17-27.	4.4	15
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