Tapio Salmi

List of Publications by Year in descending order

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428 papers	10,846 citations	46918 47 h-index	69108 77 g-index
438 all docs	438 docs citations	438 times ranked	8745 citing authors

#	Article	IF	Citations
1	Production of Lactic Acid/Lactates from Biomass and Their Catalytic Transformations to Commodities. Chemical Reviews, 2014, 114, 1909-1971.	23.0	367
2	Synthesis of Sugars by Hydrolysis of Hemicelluloses- A Review. Chemical Reviews, 2011, 111, 5638-5666.	23.0	350
3	Recent Progress in Synthesis of Fine and Specialty Chemicals from Wood and Other Biomass by Heterogeneous Catalytic Processes. Catalysis Reviews - Science and Engineering, 2007, 49, 197-340.	5.7	250
4	Asymmetric Heterogeneous Catalysis: Science and Engineering. Catalysis Reviews - Science and Engineering, 2005, 47, 175-256.	5.7	231
5	Deactivation of postcombustion catalysts, a review. Fuel, 2004, 83, 395-408.	3.4	176
6	Development of a kinetic model for the esterification of acetic acid with methanol in the presence of a homogeneous acid catalyst. Chemical Engineering Science, 1997, 52, 3369-3381.	1.9	136
7	Ring opening of decalin over zeolitesI. Activity and selectivity of proton-form zeolites. Journal of Catalysis, 2004, 222, 65-79.	3.1	131
8	Engineering in direct synthesis of hydrogen peroxide: targets, reactors and guidelines for operational conditions. Green Chemistry, 2014, 16, 2320.	4.6	131
9	Ultrasound enhancement of cellulose processing in ionic liquids: from dissolution towards functionalization. Green Chemistry, 2007, 9, 1229.	4.6	126
10	Ring opening of decalin over zeolitesII. Activity and selectivity of platinum-modified zeolites. Journal of Catalysis, 2004, 227, 313-327.	3.1	123
11	Review on hydrodynamics and mass transfer in minichannel wall reactors with gasâ€“liquid Taylor flow. Chemical Engineering Research and Design, 2016, 113, 304-329.	2.7	119
12	Kinetics of nitrate reduction in monolith reactor. Chemical Engineering Science, 1994, 49, 5763-5773.	1.9	111
13	Stationary and transient kinetics of the high temperature water-gas shift reaction. Applied Catalysis A: General, 1996, 137, 349-370.	2.2	99
14	Advanced oxidation process for the removal of ibuprofen from aqueous solution: A non-catalytic and catalytic ozonation study in a semi-batch reactor. Applied Catalysis B: Environmental, 2018, 230, 77-90.	10.8	99
15	Deactivation kinetics of Mo-supported Raney Ni catalyst in the hydrogenation of xylose to xylitol. Applied Catalysis A: General, 2000, 196, 143-155.	2.2	96
16	Cyclization of citronellal over zeolites and mesoporous materials for production of isopulegol. Journal of Catalysis, 2004, 225, 155-169.	3.1	93
17	Deoxygenation of dodecanoic acid under inert atmosphere. Fuel, 2010, 89, 2033-2039.	3.4	93
18	Synthesis of Dimethyl Carbonate from Methanol and Carbon Dioxide: Circumventing Thermodynamic Limitations. Industrial & Engineering Chemistry Research, 2010, 49, 9609-9617.	1.8	88

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19	Kinetics of esterification of propanoic acid with methanol over a fibrous polymer-supported sulphonic acid catalyst. Applied Catalysis A: General, 2002, 228, 253-267.	2.2	87
20	Aqueous phase reforming of xylitol and sorbitol: Comparison and influence of substrate structure. Applied Catalysis A: General, 2012, 435-436, 172-180.	2.2	86
21	Supported ionic liquidscatalysts for fine chemicals: citral hydrogenation. Green Chemistry, 2006, 8, 197-205.	4.6	83
22	Catalytic Deoxygenation of Tall Oil Fatty Acid over Palladium Supported on Mesoporous Carbon. Energy & Fuels, 2011, 25, 2815-2825.	2.5	82
23	Chemisorption and TPD studies of hydrogen on Ni/Al2O3. Applied Catalysis A: General, 1996, 144, 177-194.	2.2	80
24	Liquid phase hydrogenation of citral: suppression of side reactions. Applied Catalysis A: General, 2002, 237, 181-200.	2.2	78
25	Kinetic modeling strategy for an exothermic multiphase reactor system: Application to vegetable oils epoxidation using <scp>P</scp>rileschajew method. AICHE Journal, 2016, 62, 726-741.	1.8	78
26	Liquid phase hydrogenation of nitrobenzene. Applied Catalysis A: General, 2015, 499, 66-76.	2.2	74
27	From renewable raw materials to high value-added fine chemicalsâ€”Catalytic hydrogenation and oxidation of d-lactose. Catalysis Today, 2007, 121, 92-99.	2.2	73
28	Selective hydrogenation of fatty acids to alcohols over highly dispersed ReO /TiO2 catalyst. Journal of Catalysis, 2015, 328, 197-207.	3.1	72
29	Kinetics of toluene hydrogenation on a supported nickel catalyst. Industrial & Engineering Chemistry Research, 1993, 32, 34-42.	1.8	69
30	Enantioselective Hydrogenation of 1-Phenyl-1,2-propanedione. Journal of Catalysis, 2001, 204, 281-291.	3.1	67
31	Catalytic Deoxygenation of Tall Oil Fatty Acids Over a Palladium-Mesoporous Carbon Catalyst: A New Source of Biofuels. Topics in Catalysis, 2010, 53, 1274-1277.	1.3	65
32	Intensification of hemicellulose hot-water extraction from spruce wood in a batch extractor â€“ Effects of wood particle size. Bioresource Technology, 2013, 143, 212-220.	4.8	65
33	Comparison of polyvinylbenzene and polyolefin supported sulphonic acid catalysts in the esterification of acetic acid. Applied Catalysis A: General, 1999, 184, 25-32.	2.2	64
34	Sugar hydrogenation over a Ru/C catalyst. Journal of Chemical Technology and Biotechnology, 2011, 86, 658-668.	1.6	64
35	Isomerization of linoleic acid over supported metal catalysts. Applied Catalysis A: General, 2003, 245, 257-275.	2.2	63
36	Xylose hydrogenation: kinetic and NMR studies of the reaction mechanisms. Catalysis Today, 1999, 48, 73-81.	2.2	62

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37	Kinetics of Aqueous Extraction of Hemicelluloses from Spruce in an Intensified Reactor System. Industrial & Engineering Chemistry Research, 2011, 50, 3818-3828.	1.8	61
38	Structure sensitivity in catalytic hydrogenation of glucose over ruthenium. Catalysis Today, 2015, 241, 195-199.	2.2	60
39	Pyrolysis of Softwood Carbohydrates in a Fluidized Bed Reactor. International Journal of Molecular Sciences, 2008, 9, 1665-1675.	1.8	57
40	Acid hydrolysis of xylan. Catalysis Today, 2016, 259, 376-380.	2.2	57
41	Kinetics of the Recovery of Active Anthraquinones. Industrial & Engineering Chemistry Research, 2006, 45, 986-992.	1.8	56
42	Aminolysis of cyclic-carbonate vegetable oils as a non-isocyanate route for the synthesis of polyurethane: A kinetic and thermal study. Chemical Engineering Journal, 2018, 346, 271-280.	6.6	56
43	Aqueous-phase reforming of xylitol over Pt/C and Pt/TiC-CDC catalysts: catalyst characterization and catalytic performance. Catalysis Science and Technology, 2014, 4, 387-401.	2.1	54
44	Aqueous phase reforming of xylitol over Pt-Re bimetallic catalyst: Effect of the Re addition. Catalysis Today, 2014, 223, 97-107.	2.2	52
45	Epoxidation of vegetable oils under microwave irradiation. Chemical Engineering Research and Design, 2014, 92, 1495-1502.	2.7	51
46	Ionic liquid mediated technology for synthesis of cellulose acetates using different co-solvents. Carbohydrate Polymers, 2016, 135, 341-348.	5.1	51
47	Influence of ringâ€opening reactions on the kinetics of cottonseed oil epoxidation. International Journal of Chemical Kinetics, 2018, 50, 726-741.	1.0	50
48	The Effect of Alkoxide Ionic Liquids on the Synthesis of Dimethyl Carbonate from CO2 and Methanol over ZrO2â€“MgO. Catalysis Letters, 2011, 141, 1254-1261.	1.4	49
49	Kinetics of toluene hydrogenation on Ni/Al2O3 catalyst. Chemical Engineering Science, 1993, 48, 3813-3828.	1.9	48
50	Catalytic Pyrolysis of Pine Biomass Over H-Beta Zeolite in a Dual-Fluidized Bed Reactor: Effect of Space Velocity on the Yield and Composition of Pyrolysis Products. Topics in Catalysis, 2011, 54, 941-948.	1.3	48
51	Continuous liquid-phase valorization of bio-ethanol towards bio-butanol over metal modified alumina. Renewable Energy, 2015, 74, 369-378.	4.3	48
52	Pd-Au and Pd-Pt catalysts for the direct synthesis of hydrogen peroxide in absence of selectivity enhancers. Applied Catalysis A: General, 2013, 468, 160-174.	2.2	47
53	Spruce Hemicellulose for Chemicals Using Aqueous Extraction: Kinetics, Mass Transfer, and Modeling. Industrial & Engineering Chemistry Research, 2014, 53, 6341-6350.	1.8	47
54	Modelling of kinetics and mass transfer in the hydrogenation of xylose over Raney nickel catalyst. Journal of Chemical Technology and Biotechnology, 1999, 74, 655-662.	1.6	46

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55	Kinetics of the catalytic hydrogenation of d-fructose over a CuO-ZnO catalyst. Chemical Engineering Journal, 2005, 115, 93-102.	6.6	45
56	Epoxidation of oleic acid under conventional heating and microwave radiation. Chemical Engineering and Processing: Process Intensification, 2016, 102, 70-87.	1.8	45
57	Zeta Potential of Beta Zeolites: Influence of Structure, Acidity, pH, Temperature and Concentration. Molecules, 2018, 23, 946.	1.7	45
58	Selective Hydrolysis of Arabinogalactan into Arabinose and Galactose Over Heterogeneous Catalysts. Catalysis Letters, 2011, 141, 408-412.	1.4	44
59	Synthesis and characterization of solid base mesoporous and microporous catalysts: Influence of the support, structure and type of base metal. Microporous and Mesoporous Materials, 2012, 152, 71-77.	2.2	44
60	Kinetic modelling of a solidâ€“liquid reaction: reduction of ferric iron to ferrous iron with zinc sulphide. Chemical Engineering Science, 2004, 59, 919-930.	1.9	43
61	Liquid-phase hydrogenation of citral over an immobile silica fibre catalyst. Applied Catalysis A: General, 2000, 196, 93-102.	2.2	42
62	Kinetics of Cinnamaldehyde Hydrogenation by Supported Ionic Liquid Catalysts (SILCA). Industrial & Engineering Chemistry Research, 2009, 48, 10335-10342.	1.8	42
63	Microreactors as tools in kinetic investigations: Ethylene oxide formation on silver catalyst. Chemical Engineering Science, 2013, 87, 306-314.	1.9	42
64	Obtaining Spruce Hemicelluloses of Desired Molar Mass by using Pressurized Hot Water Extraction. ChemSusChem, 2014, 7, 2947-2953.	3.6	42
65	Hemicellulose extraction by hot pressurized water pretreatment at 160 ÂºC for 10 different woods: Yield and molecular weight. Journal of Supercritical Fluids, 2018, 133, 716-725.	1.6	42
66	Selective hydrogenation of cinnamaldehyde over Ru/Y zeolite. Journal of Molecular Catalysis A, 2004, 217, 145-154.	4.8	41
67	From Kinetic Study to Thermal Safety Assessment: Application to Peroxyformic Acid Synthesis. Industrial & Engineering Chemistry Research, 2012, 51, 13999-14007.	1.8	40
68	Interaction of thermal and kinetic parameters for a liquidâ€“liquid reaction system: Application to vegetable oils epoxidation by peroxycarboxylic acid. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 1449-1458.	2.7	40
69	Kinetic modelling of Prileschajew epoxidation of oleic acid under conventional heating and microwave irradiation. Chemical Engineering Science, 2019, 199, 426-438.	1.9	39
70	In-situ ultrasonic catalyst rejuvenation in three-phase hydrogenation of xylose. Chemical Engineering Science, 1999, 54, 1583-1588.	1.9	37
71	Kinetic modeling of hemicellulose hydrolysis in the presence of homogeneous and heterogeneous catalysts. AICHE Journal, 2014, 60, 1066-1077.	1.8	37
72	Hemicellulose hydrolysis and hydrolytic hydrogenation over proton- and metal modified beta zeolites. Microporous and Mesoporous Materials, 2014, 189, 189-199.	2.2	37

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73	Hydrogenolysis of Hydroxymatairesinol Over Carbon-Supported Palladium Catalysts. Catalysis Letters, 2005, 103, 125-131.	1.4	35
74	Kinetic Study ofn-Butane Isomerization over Ptâˆ'H-Mordenite. Industrial & Engineering Chemistry Research, 2005, 44, 471-484.	1.8	35
75	Hydrogenation of Lactose over Sponge Nickel CatalystsKinetics and Modeling. Industrial & Engineering Chemistry Research, 2006, 45, 5900-5910.	1.8	35
76	Enhancement of solid dissolution by ultrasound. Chemical Engineering and Processing: Process Intensification, 2007, 46, 862-869.	1.8	35
77	Hydrolytic hydrogenation of hemicellulose over metal modified mesoporous catalyst. Catalysis Today, 2012, 196, 26-33.	2.2	35
78	The effect of the metal precursor-reduction with hydrogen on a library of bimetallic Pd-Au and Pd-Pt catalysts for the direct synthesis of H2O2. Catalysis Today, 2015, 248, 40-47.	2.2	35
79	The effect of oxygen and the reduction temperature of the Pt/Al2O3 catalyst in enantioselective hydrogenation of 1-phenyl-1,2-propanedione. Catalysis Today, 2000, 60, 175-184.	2.2	34
80	Hemicellulose arabinogalactan hydrolytic hydrogenation over Ru-modified H-USY zeolites. Journal of Catalysis, 2015, 330, 93-105.	3.1	34
81	Hemicelluloses from stone pine, holm oak, and Norway spruce with subcritical water extraction â^' comparative study with characterization and kinetics. Journal of Supercritical Fluids, 2018, 133, 647-657.	1.6	34
82	Kinetics of oxidation of ferrous sulfate with molecular oxygen. Chemical Engineering Science, 1999, 54, 4223-4232.	1.9	33
83	Batchwise and continuous enantioselective hydrogenation of 1-phenyl-1,2-propanedione catalyzed by new Pt/SiO2 fibers. Applied Catalysis A: General, 2001, 216, 73-83.	2.2	33
84	Hydrosilylation of cinchonidine and 9-O-TMS-cinchonidine with triethoxysilane: application of 11-(triethoxysilyl)-10,11-dihydrocinchonidine as a chiral modifier in the enantioselective hydrogenation of 1-phenylpropane-1,2-dione. Journal of the Chemical Society, Perkin Transactions 1, 2002, , 2605-2612.	1.3	33
85	Reduction of ferric to ferrous with sphalerite concentrate, kinetic modelling. Hydrometallurgy, 2004, 73, 269-282.	1.8	33
86	Thermal and catalytic oligomerisation of fatty acids. Applied Catalysis A: General, 2007, 330, 1-11.	2.2	33
87	Selective catalytic oxidation of arabinoseâ€"A comparison of gold and palladium catalysts. Applied Catalysis A: General, 2010, 386, 101-108.	2.2	33
88	Isomerization of Î±-Pinene Oxide Over Iron-Modified Zeolites. Topics in Catalysis, 2013, 56, 696-713.	1.3	33
89	New modelling approach to liquidâ€"solid reaction kinetics: From ideal particles to real particles. Chemical Engineering Research and Design, 2013, 91, 1876-1889.	2.7	33
90	Kinetic model for the increase of reaction order during polyesterification. Chemical Engineering and Processing: Process Intensification, 2004, 43, 1487-1493.	1.8	32

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91	Effect of Ultrasound on Catalytic Hydrogenation ofd-Fructose tod-Mannitol. Industrial & Engineering Chemistry Research, 2005, 44, 9370-9375.	1.8	32
92	Preparation and Characterization of Alumina-Based Microreactors for Application in Methyl Chloride Synthesis. Industrial & Engineering Chemistry Research, 2012, 51, 4545-4555.	1.8	32
93	Preparation and characterization of neat and ZnCl2 modified zeolites and alumina for methyl chloride synthesis. Applied Catalysis A: General, 2013, 468, 120-134.	2.2	32
94	Hydrogenation of Citral Over a Polymer Fibre Catalyst. Catalysis Letters, 2002, 84, 219-224.	1.4	31
95	Influence of ruthenium precursor on catalytic activity of Ru/Al2O3 catalyst in selective isomerization of linoleic acid to cis-9,trans-11- and trans-10,cis-12-conjugated linoleic acid. Applied Catalysis A: General, 2004, 267, 121-133.	2.2	31
96	Solid-liquid reaction kinetics â€“ experimental aspects and model development. Reviews in Chemical Engineering, 2011, 27, .	2.3	31
97	Direct synthesis of hydrogen peroxide in water in a continuous trickle bed reactor optimized to maximize productivity. Green Chemistry, 2013, 15, 2502.	4.6	31
98	A novel exit boundary condition for the axial dispersion model. Chemical Engineering and Processing: Process Intensification, 1995, 34, 359-366.	1.8	30
99	Investigation of CO oxidation and NO reduction on three-way monolith catalysts with transient response techniques. Applied Catalysis B: Environmental, 1997, 12, 287-308.	10.8	30
100	Aldolization of butyraldehyde with formaldehyde over a commercial anion-exchange resin â€” kinetics and selectivity aspects. Applied Catalysis A: General, 2000, 198, 207-221.	2.2	30
101	Isomerization of 1-butene over SAPO-11 catalysts synthesized by varying synthesis time and silica sources. Applied Catalysis A: General, 2004, 259, 227-234.	2.2	30
102	Ethylene Oxide Formation in a Microreactor: From Qualitative Kinetics to Detailed Modeling. Industrial & Engineering Chemistry Research, 2010, 49, 10897-10907.	1.8	30
103	Continuous hydrogenation of glucose with ruthenium on carbon nanotube catalysts. Catalysis Science and Technology, 2015, 5, 953-959.	2.1	30
104	Bromide and Acids: A Comprehensive Study on Their Role on the Hydrogen Peroxide Direct Synthesis. Industrial & Engineering Chemistry Research, 2017, 56, 13367-13378.	1.8	30
105	Synthesis and characterization of Au nano particles supported catalysts for partial oxidation of ethanol: Influence of solution pH, Au nanoparticle size, support structure and acidity. Journal of Catalysis, 2017, 353, 223-238.	3.1	30
106	Gas phase hydrogenation of o- and p-xylene on NiAl2O3 â€” Kinetic modelling. Applied Catalysis A: General, 1997, 150, 115-129.	2.2	29
107	Catalyst Deactivation in Diborane Decomposition. Catalysis Letters, 2005, 105, 191-202.	1.4	29
108	Supported ionic liquid catalystsâ€”From batch to continuous operation in preparation of fine chemicals. Catalysis Today, 2009, 147, S144-S148.	2.2	29

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109	Interaction of intrinsic kinetics and internal mass transfer in porous ion-exchange catalysts: Green synthesis of peroxycarboxylic acids. Chemical Engineering Science, 2009, 64, 4101-4114.	1.9	29
110	Batch and Semibatch Partial Oxidation of Starch by Hydrogen Peroxide in the Presence of an Iron Tetrasulfophthalocyanine Catalyst: The Effect of Ultrasound and the Catalyst Addition Policy. Industrial & Engineering Chemistry Research, 2011, 50, 749-757.	1.8	29
111	Oxidative dehydrogenation of a biomass derived lignan â€“ Hydroxymatairesinol over heterogeneous gold catalysts. Journal of Catalysis, 2011, 282, 54-64.	3.1	29
112	Epoxidation of Fatty Acids and Vegetable Oils Assisted by Microwaves Catalyzed by a Cation Exchange Resin. Industrial & Engineering Chemistry Research, 2018, 57, 3876-3886.	1.8	29
113	Catalytic ozonation of the antibiotic sulfadiazine: Reaction kinetics and transformation mechanisms. Chemosphere, 2020, 247, 125853.	4.2	29
114	Kinetic Study and Modeling of Peroxypropionic Acid Synthesis from Propionic Acid and Hydrogen Peroxide Using Homogeneous Catalysts. Industrial & Engineering Chemistry Research, 2008, 47, 656-664.	1.8	28
115	Isomerization of Î²-pinene oxide over Sn-modified zeolites. Journal of Molecular Catalysis A, 2013, 366, 228-237.	4.8	28
116	Influence of gas-liquid mass transfer on kinetic modeling: Carbonation of epoxidized vegetable oils. Chemical Engineering Journal, 2017, 313, 1168-1183.	6.6	28
117	Intraparticle diffusion model to determine the intrinsic kinetics of ethyl levulinate synthesis promoted by Amberlyst-15. Chemical Engineering Science, 2020, 228, 115974.	1.9	28
118	Modelling of the high temperature water gas shift reaction with stationary and transient experiments. Chemical Engineering Science, 1986, 41, 929-936.	1.9	27
119	Deactivation of the high-temperature water-gas shift catalyst in nonisothermal conditions. Applied Catalysis A: General, 1992, 87, 185-203.	2.2	27
120	Development and verification of a simulation model for a non-isothermal water-gas shift reactor. The Chemical Engineering Journal, 1992, 48, 17-29.	0.4	27
121	Kinetic study of the carboxymethylation of cellulose. Industrial & Engineering Chemistry Research, 1994, 33, 1454-1459.	1.8	27
122	Kinetics of m-xylene hydrogenation on NiAl2O3. Applied Catalysis A: General, 1996, 141, 207-228.	2.2	27
123	Effects of solvent polarity on the hydrogenation of xylose. Journal of Chemical Technology and Biotechnology, 2001, 76, 90-100.	1.6	27
124	Modeling of the enantioselective hydrogenation of 1-phenyl-1,2-propanedione over Pt/Al2O3 catalyst. Catalysis Today, 2001, 66, 411-417.	2.2	27
125	Synthesis of Novel Ag Modified MCM-41 Mesoporous Molecular Sieve and Beta Zeolite Catalysts for Ozone Decomposition at Ambient Temperature. Catalysis Letters, 2004, 98, 57-60.	1.4	27
126	Heterogeneous Catalytic Production of Conjugated Linoleic Acid. Organic Process Research and Development, 2004, 8, 341-352.	1.3	27

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127	Isomerization of n-butane to isobutane over Pt-SAPO-5, SAPO-5, Pt-H-mordenite and H-mordenite catalysts. Catalysis Today, 2005, 100, 355-361.	2.2	27
128	Selective Oxidation of <scp>D</scp>â€Galactose over Gold Catalysts. ChemCatChem, 2011, 3, 1789-1798.	1.8	27
129	Factors affecting catalytic destruction of H2O2 by hydrogenation and decomposition over Pd catalysts supported on activated carbon cloth (ACC). Catalysis Today, 2015, 248, 69-79.	2.2	27
130	Chemical composition and extraction kinetics of Holm oak (Quercus ilex) hemicelluloses using subcritical water. Journal of Supercritical Fluids, 2017, 129, 56-62.	1.6	27
131	Kinetics and modelling of furfural oxidation with hydrogen peroxide over a fibrous heterogeneous catalyst: effect of reaction parameters on yields of succinic acid. Journal of Chemical Technology and Biotechnology, 2017, 92, 2206-2220.	1.6	27
132	Kinetic Model for the Homogeneously Catalyzed Polyesterification of Dicarboxylic Acids with Diols. Industrial & Engineering Chemistry Research, 1996, 35, 3951-3963.	1.8	26
133	Impact of Catalyst Reduction Mode on Selective Hydrogenation of Cinnamaldehyde over Ruâ^'Sn Solâ^'Gel Catalysts. Industrial & Engineering Chemistry Research, 2003, 42, 295-305.	1.8	26
134	Ring-opening of decalin â€“ Kinetic modelling. Fuel, 2009, 88, 366-373.	3.4	26
135	Mechanistic modelling of kinetics and mass transfer for a solidâ€“liquid system: Leaching of zinc with ferric iron. Chemical Engineering Science, 2010, 65, 4460-4471.	1.9	26
136	Modeling the Influence of Wood Anisotropy and Internal Diffusion on Delignification Kinetics. Industrial & Engineering Chemistry Research, 2010, 49, 9703-9711.	1.8	26
137	Modeling of microreactors for ethylene epoxidation and total oxidation. Chemical Engineering Science, 2015, 134, 563-571.	1.9	26
138	Heterogeneously Catalytic Isomerization of Linoleic Acid over Supported Ruthenium Catalysts for Production of Anticarcinogenic Food Constituents. Industrial & Engineering Chemistry Research, 2003, 42, 718-727.	1.8	25
139	Methyl chloride synthesis over Al2O3 catalyst coated microstructured reactorâ€”Thermodynamics, kinetics and mass transfer. Chemical Engineering Science, 2013, 95, 232-245.	1.9	25
140	Esterification of fatty acids with ethanol over layered zinc laurate and zinc stearate â€“ Kinetic modeling. Fuel, 2015, 153, 445-454.	3.4	25
141	Lignin isolation from spruce wood with low concentration aqueous alkali at high temperature and pressure: influence of hot-water pre-extraction. Green Chemistry, 2015, 17, 5058-5068.	4.6	25
142	Revealing the role of bromide in the H₂O₂ direct synthesis with the catalyst wet pretreatment method (CWPM). AICHE Journal, 2017, 63, 32-42.	1.8	25
143	Kinetics and reactor modelling of fatty acid epoxidation in the presence of heterogeneous catalyst. Chemical Engineering Journal, 2019, 375, 121936.	6.6	25
144	Title is missing!. Catalysis Letters, 2002, 78, 105-110.	1.4	24

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145	Effect of Internal Diffusion in Supported Ionic Liquid Catalysts:Â Interaction with Kinetics. Industrial & Engineering Chemistry Research, 2007, 46, 3932-3940.	1.8	24
146	Kinetics of Citral Hydrogenation by Supported Ionic Liquid Catalysts (SILCA) for Fine Chemicals. Industrial & Engineering Chemistry Research, 2007, 46, 9022-9031.	1.8	24
147	Reversible Autocatalytic Hydrolysis of Alkyl Formate: Kinetic and Reactor Modeling. Industrial & Engineering Chemistry Research, 2010, 49, 4099-4106.	1.8	24
148	Dynamic non-isothermal trickle bed reactor with both internal diffusion and heat conduction: Sugar hydrogenation as a case study. Chemical Engineering Research and Design, 2015, 102, 171-185.	2.7	24
149	Aqueous extraction of hemicelluloses from spruce â€“ From hot to warm. Bioresource Technology, 2016, 199, 279-282.	4.8	24
150	Heterogeneous Catalytic Oxidation of Furfural with Hydrogen Peroxide over Sulfated Zirconia. Industrial & Engineering Chemistry Research, 2020, 59, 13516-13527.	1.8	24
151	Interaction of kinetics and internal diffusion in complex catalytic three-phase reactions: Activity and selectivity in citral hydrogenation. Chemical Engineering Science, 2006, 61, 814-822.	1.9	23
152	Cascade approach for synthesis of R-1-phenyl ethyl acetate from acetophenone: Effect of support. Journal of Molecular Catalysis A, 2008, 285, 132-141.	4.8	23
153	Preparation and Study of Pd Catalysts Supported on Activated Carbon Cloth (ACC) for Direct Synthesis of H2O2 from H2 and O2. Topics in Catalysis, 2013, 56, 527-539.	1.3	23
154	The influence of catalyst amount and Pd loading on the H₂O₂ synthesis from hydrogen and oxygen. Catalysis Science and Technology, 2015, 5, 3545-3555.	2.1	23
155	Carbonation of Vegetable Oils: Influence of Mass Transfer on Reaction Kinetics. Industrial & Engineering Chemistry Research, 2015, 54, 10935-10944.	1.8	23
156	Promotional effects of Au in Pdâ€“Au bimetallic catalysts supported on activated carbon cloth (ACC) for direct synthesis of H2O2 from H2 and O2. Catalysis Today, 2015, 248, 58-68.	2.2	23
157	Use of semibatch reactor technology for the investigation of reaction mechanism and kinetics: Heterogeneously catalyzed epoxidation of fatty acid esters. Chemical Engineering Science, 2021, 230, 116206.	1.9	23
158	Kinetic model for main and side reactions in the polyesterification of dicarboxylic acids with diols. Chemical Engineering Science, 1994, 49, 3601-3616.	1.9	22
159	Kinetics of melt polymerization of maleic acid phthalic acids with propylene glycol. Chemical Engineering Science, 1994, 49, 5053-5070.	1.9	22
160	Dynamic modelling of catalytic liquid-phase reactions in fixed bedsâ€”Kinetics and catalyst deactivation in the recovery of anthraquinones. Chemical Engineering Science, 2006, 61, 4528-4539.	1.9	22
161	Synthesis of peroxypropionic acid from propionic acid and hydrogen peroxide over heterogeneous catalysts. Chemical Engineering Journal, 2009, 147, 323-329.	6.6	22
162	Kinetics of linoleic acid hydrogenation on Pd/C catalyst. Applied Catalysis A: General, 2009, 353, 166-180.	2.2	22

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163	Kinetics of Methyl Formate Hydrolysis in the Absence and Presence of a Complexing Agent. Industrial & Engineering Chemistry Research, 2011, 50, 267-276.	1.8	22
164	Acid hydrolysis of O-acetyl-galactoglucomannan. Catalysis Science and Technology, 2013, 3, 116-122.	2.1	22
165	Kinetics of Lactose Hydrogenation over Ruthenium Nanoparticles in Hypercrosslinked Polystyrene. Industrial & Engineering Chemistry Research, 2013, 52, 14066-14080.	1.8	22
166	Oxidation of Starch by H₂O₂ in the Presence of Iron Tetrasulfophthalocyanine Catalyst: The Effect of Catalyst Concentration, pH, Solidâ€“Liquid Ratio, and Origin of Starch. Industrial & Engineering Chemistry Research, 2013, 52, 9351-9358.	1.8	22
167	Arabinogalactan hydrolysis and hydrolytic hydrogenation using functionalized carbon materials. Catalysis Today, 2015, 257, 169-176.	2.2	22
168	Cooling and stirring failure for semi-batch reactor: Application to exothermic reactions in multiphase reactor. Journal of Loss Prevention in the Process Industries, 2016, 43, 147-157.	1.7	22
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