Tapio Salmi

List of Publications by Citations

Source: https://exaly.com/author-pdf/6831932/tapio-salmi-publications-by-citations.pdf
Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

419 papers	8,719 citations	43 h-index	69 g-index
438 ext. papers	9,673 ext. citations	5.2 avg, IF	6.07 L-index

#	Paper	IF	Citations
419	Production of lactic acid/lactates from biomass and their catalytic transformations to commodities. *Chemical Reviews*, **2014**, 114, 1909-71	68.1	294
418	Synthesis of sugars by hydrolysis of hemicelluloses--a review. *Chemical Reviews*, **2011**, 111, 5638-66	68.1	294
417	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	12.6	231
416	Asymmetric Heterogeneous Catalysis: Science and Engineering. *Catalysis Reviews - Science and Engineering*, **2005**, 47, 175-256	12.6	203
415	Deactivation of postcombustion catalysts, a review. *Fuel*, **2004**, 83, 395-408	7.1	139
414	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	4.4	118
413	Ring opening of decalin over zeolitesI. Activity and selectivity of proton-form zeolites. *Journal of Catalysis*, **2004**, 222, 65-79	7.3	117
412	Ultrasound enhancement of cellulose processing in ionic liquids: from dissolution towards functionalization. *Green Chemistry*, **2007**, 9, 1229	10	116
411	Ring opening of decalin over zeolitesII. Activity and selectivity of platinum-modified zeolites. *Journal of Catalysis*, **2004**, 227, 313-327	7.3	113
410	Engineering in direct synthesis of hydrogen peroxide: targets, reactors and guidelines for operational conditions. *Green Chemistry*, **2014**, 16, 2320	10	101
409	Kinetics of nitrate reduction in monolith reactor. *Chemical Engineering Science*, **1994**, 49, 5763-5773	4.4	100
408	Review on hydrodynamics and mass transfer in minichannel wall reactors with gas–liquid Taylor flow. *Chemical Engineering Research and Design*, **2016**, 113, 304-329	5.5	86
407	Deactivation kinetics of Mo-supported Raney Ni catalyst in the hydrogenation of xylose to xylitol. *Applied Catalysis A: General*, **2000**, 196, 143-155	5.1	85
406	Supported ionic liquids catalysts for fine chemicals: citral hydrogenation. *Green Chemistry*, **2006**, 8, 197-205	10	82
405	Stationary and transient kinetics of the high temperature water-gas shift reaction. *Applied Catalysis A: General*, **1996**, 137, 349-370	5.1	82
404	Deoxygenation of dodecanoic acid under inert atmosphere. *Fuel*, **2010**, 89, 2033-2039	7.1	79
403	Kinetics of esterification of propanoic acid with methanol over a fibrous polymer-supported sulphonic acid catalyst. *Applied Catalysis A: General*, **2002**, 228, 253-267	5.1	77

402	Cyclization of citronellal over zeolites and mesoporous materials for production of isopulegol. *Journal of Catalysis*, **2004**, 225, 155-169	7.3	76
401	Aqueous phase reforming of xylitol and sorbitol: Comparison and influence of substrate structure. *Applied Catalysis A: General*, **2012**, 435-436, 172-180	5.1	73
400	Catalytic Deoxygenation of Tall Oil Fatty Acid over Palladium Supported on Mesoporous Carbon. *Energy & Fuels*, **2011**, 25, 2815-2825	4.1	73
399	Synthesis of Dimethyl Carbonate from Methanol and Carbon Dioxide: Circumventing Thermodynamic Limitations. *Industrial & Engineering Chemistry Research*, **2010**, 49, 9609-9617	3.9	71
398	Chemisorption and TPD studies of hydrogen on Ni/Al2O3. *Applied Catalysis A: General*, **1996**, 144, 177-194	5.1	66
397	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	21.8	65
396	From renewable raw materials to high value-added fine chemicals□atalytic hydrogenation and oxidation of d-lactose. *Catalysis Today*, **2007**, 121, 92-99	5.3	63
395	Liquid phase hydrogenation of citral: suppression of side reactions. *Applied Catalysis A: General*, **2002**, 237, 181-200	5.1	63
394	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	2.3	61
393	Comparison of polyvinylbenzene and polyolefin supported sulphonic acid catalysts in the esterification of acetic acid. *Applied Catalysis A: General*, **1999**, 184, 25-32	5.1	61
392	Liquid phase hydrogenation of nitrobenzene. *Applied Catalysis A: General*, **2015**, 499, 66-76	5.1	57
391	Isomerization of linoleic acid over supported metal catalysts. *Applied Catalysis A: General*, **2003**, 245, 257-275	5.1	57
390	Kinetics of toluene hydrogenation on a supported nickel catalyst. *Industrial & Engineering Chemistry Research*, **1993**, 32, 34-42	3.9	57
389	Kinetic modeling strategy for an exothermic multiphase reactor system: Application to vegetable oils epoxidation using Prileschajew method. *AICHE Journal*, **2016**, 62, 726-741	3.6	54
388	Intensification of hemicellulose hot-water extraction from spruce wood in a batch extractor--effects of wood particle size. *Bioresource Technology*, **2013**, 143, 212-20	11	54
387	Kinetics of Aqueous Extraction of Hemicelluloses from Spruce in an Intensified Reactor System. *Industrial & Engineering Chemistry Research*, **2011**, 50, 3818-3828	3.9	54
386	Xylose hydrogenation: kinetic and NMR studies of the reaction mechanisms. *Catalysis Today*, **1999**, 48, 73-81	5.3	54
385	Pyrolysis of softwood carbohydrates in a fluidized bed reactor. *International Journal of Molecular Sciences*, **2008**, 9, 1665-75	6.3	53

384	Sugar hydrogenation over a Ru/C catalyst. *Journal of Chemical Technology and Biotechnology*, **2011**, 86, 658-668	3.5	51
383	Acid hydrolysis of xylan. *Catalysis Today*, **2016**, 259, 376-380	5.3	50
382	Aqueous phase reforming of xylitol over Pt-Re bimetallic catalyst: Effect of the Re addition. *Catalysis Today*, **2014**, 223, 97-107	5.3	48
381	Selective hydrogenation of fatty acids to alcohols over highly dispersed ReO /TiO2 catalyst. *Journal of Catalysis*, **2015**, 328, 197-207	7.3	48
380	Kinetics of the Recovery of Active Anthraquinones. *Industrial & Engineering Chemistry Research*, **2006**, 45, 986-992	3.9	47
379	Enantioselective Hydrogenation of 1-Phenyl-1,2-propanedione. *Journal of Catalysis*, **2001**, 204, 281-291	7.3	46
378	The Effect of Alkoxide Ionic Liquids on the Synthesis of Dimethyl Carbonate from CO2 and Methanol over ZrO2MgO. *Catalysis Letters*, **2011**, 141, 1254-1261	2.8	45
377	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	5.5	44
376	Structure sensitivity in catalytic hydrogenation of glucose over ruthenium. *Catalysis Today*, **2015**, 241, 195-199	5.3	43
375	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	5.3	42
374	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	5.1	42
373	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	3.5	42
372	Ionic liquid mediated technology for synthesis of cellulose acetates using different co-solvents. *Carbohydrate Polymers*, **2016**, 135, 341-8	10.3	41
371	Epoxidation of vegetable oils under microwave irradiation. *Chemical Engineering Research and Design*, **2014**, 92, 1495-1502	5.5	41
370	Epoxidation of oleic acid under conventional heating and microwave radiation. *Chemical Engineering and Processing: Process Intensification*, **2016**, 102, 70-87	3.7	40
369	Spruce Hemicellulose for Chemicals Using Aqueous Extraction: Kinetics, Mass Transfer, and Modeling. *Industrial & Engineering Chemistry Research*, **2014**, 53, 6341-6350	3.9	40
368	Selective Hydrolysis of Arabinogalactan into Arabinose and Galactose Over Heterogeneous Catalysts. *Catalysis Letters*, **2011**, 141, 408-412	2.8	39
367	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	2.3	39

366	Kinetics of Cinnamaldehyde Hydrogenation by Supported Ionic Liquid Catalysts (SILCA). *Industrial & Engineering Chemistry Research*, **2009**, 48, 10335-10342	3.9	39
365	Kinetic modelling of a solid–liquid reaction: reduction of ferric iron to ferrous iron with zinc sulphide. *Chemical Engineering Science*, **2004**, 59, 919-930	4.4	39
364	Continuous liquid-phase valorization of bio-ethanol towards bio-butanol over metal modified alumina. *Renewable Energy*, **2015**, 74, 369-378	8.1	38
363	Selective hydrogenation of cinnamaldehyde over Ru/Y zeolite. *Journal of Molecular Catalysis A*, **2004**, 217, 145-154		38
362	Kinetics of the catalytic hydrogenation of d-fructose over a CuO-ZnO catalyst. *Chemical Engineering Journal*, **2005**, 115, 93-102	14.7	38
361	Microreactors as tools in kinetic investigations: Ethylene oxide formation on silver catalyst. *Chemical Engineering Science*, **2013**, 87, 306-314	4.4	37
360	Obtaining spruce hemicelluloses of desired molar mass by using pressurized hot water extraction. *ChemSusChem*, **2014**, 7, 2947-53	8.3	36
359	Hemicellulose hydrolysis and hydrolytic hydrogenation over proton- and metal modified beta zeolites. *Microporous and Mesoporous Materials*, **2014**, 189, 189-199	5.3	35
358	Liquid-phase hydrogenation of citral over an immobile silica fibre catalyst. *Applied Catalysis A: General*, **2000**, 196, 93-102	5.1	35
357	Kinetics of toluene hydrogenation on Ni/Al2O3 catalyst. *Chemical Engineering Science*, **1993**, 48, 3813-3829	4.4	35
356	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	14.7	33
355	Interaction of thermal and kinetic parameters for a liquid–liquid reaction system: Application to vegetable oils epoxidation by peroxycarboxylic acid. *Journal of the Taiwan Institute of Chemical Engineers*, **2014**, 45, 1449-1458	5.3	33
354	In-situ ultrasonic catalyst rejuvenation in three-phase hydrogenation of xylose. *Chemical Engineering Science*, **1999**, 54, 1583-1588	4.4	33
353	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	5.3	32
352	Kinetic modeling of hemicellulose hydrolysis in the presence of homogeneous and heterogeneous catalysts. *AICHE Journal*, **2014**, 60, 1066-1077	3.6	32
351	Hydrolytic hydrogenation of hemicellulose over metal modified mesoporous catalyst. *Catalysis Today*, **2012**, 196, 26-33	5.3	32
350	From Kinetic Study to Thermal Safety Assessment: Application to Peroxyformic Acid Synthesis. *Industrial & Engineering Chemistry Research*, **2012**, 51, 13999-14007	3.9	31
349	Hydrogenolysis of Hydroxymatairesinol Over Carbon-Supported Palladium Catalysts. *Catalysis Letters*, **2005**, 103, 125-131	2.8	31

348	Isomerization of Pinene Oxide Over Iron-Modified Zeolites. *Topics in Catalysis*, **2013**, 56, 696-713	2.3	30
347	Direct synthesis of hydrogen peroxide in water in a continuous trickle bed reactor optimized to maximize productivity. *Green Chemistry*, **2013**, 15, 2502	10	30
346	Enhancement of solid dissolution by ultrasound. *Chemical Engineering and Processing: Process Intensification*, **2007**, 46, 862-869	3.7	30
345	Kinetic Study of n-Butane Isomerization over Pt-Mordenite. *Industrial & Engineering Chemistry Research*, **2005**, 44, 471-484	3.9	30
344	Kinetic model for the increase of reaction order during polyesterification. *Chemical Engineering and Processing: Process Intensification*, **2004**, 43, 1487-1493	3.7	30
343	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		30
342	Kinetics of oxidation of ferrous sulfate with molecular oxygen. *Chemical Engineering Science*, **1999**, 54, 4223-4232	4.4	30
341	Thermal and catalytic oligomerisation of fatty acids. *Applied Catalysis A: General*, **2007**, 330, 1-11	5.1	29
340	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	5.1	29
339	Reduction of ferric to ferrous with sphalerite concentrate, kinetic modelling. *Hydrometallurgy*, **2004**, 73, 269-282	4	29
338	Catalyst Deactivation in Diborane Decomposition. *Catalysis Letters*, **2005**, 105, 191-202	2.8	28
337	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	5.1	28
336	Oxidative dehydrogenation of a biomass derived lignan Hydroxymatairesinol over heterogeneous gold catalysts. *Journal of Catalysis*, **2011**, 282, 54-64	7.3	27
335	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	3.9	27
334	Supported ionic liquid catalystsFrom batch to continuous operation in preparation of fine chemicals. *Catalysis Today*, **2009**, 147, S144-S148	5.3	27
333	Hydrogenation of Lactose over Sponge Nickel CatalystsKinetics and Modeling. *Industrial & Engineering Chemistry Research*, **2006**, 45, 5900-5910	3.9	27
332	A novel exit boundary condition for the axial dispersion model. *Chemical Engineering and Processing: Process Intensification*, **1995**, 34, 359-366	3.7	27
331	Hemicellulose arabinogalactan hydrolytic hydrogenation over Ru-modified H-USY zeolites. *Journal of Catalysis*, **2015**, 330, 93-105	7.3	26

330	Hemicellulose extraction by hot pressurized water pretreatment at 160 °C for 10 different woods: Yield and molecular weight. *Journal of Supercritical Fluids*, **2018**, 133, 716-725	4.2	26
329	Influence of ring-opening reactions on the kinetics of cottonseed oil epoxidation. *International Journal of Chemical Kinetics*, **2018**, 50, 726-741	1.4	26
328	Isomerization of α-pinene oxide over Sn-modified zeolites. *Journal of Molecular Catalysis A*, **2013**, 366, 228-237		26
327	Ethylene Oxide Formation in a Microreactor: From Qualitative Kinetics to Detailed Modeling. *Industrial & Engineering Chemistry Research*, **2010**, 49, 10897-10907	3.9	26
326	Selective catalytic oxidation of arabinose: A comparison of gold and palladium catalysts. *Applied Catalysis A: General*, **2010**, 386, 101-108	5.1	26
325	Isomerization of 1-butene over SAPO-11 catalysts synthesized by varying synthesis time and silica sources. *Applied Catalysis A: General*, **2004**, 259, 227-234	5.1	26
324	Heterogeneous Catalytic Production of Conjugated Linoleic Acid. *Organic Process Research and Development*, **2004**, 8, 341-352	3.9	26
323	Hydrogenation of Citral Over a Polymer Fibre Catalyst. *Catalysis Letters*, **2002**, 84, 219-224	2.8	26
322	Aldolization of butyraldehyde with formaldehyde over a commercial anion-exchange resin – kinetics and selectivity aspects. *Applied Catalysis A: General*, **2000**, 198, 207-221	5.1	26
321	New modelling approach to liquid–solid reaction kinetics: From ideal particles to real particles. *Chemical Engineering Research and Design*, **2013**, 91, 1876-1889	5.5	25
320	Preparation and characterization of neat and ZnCl2 modified zeolites and alumina for methyl chloride synthesis. *Applied Catalysis A: General*, **2013**, 468, 120-134	5.1	25
319	Preparation and Characterization of Alumina-Based Microreactors for Application in Methyl Chloride Synthesis. *Industrial & Engineering Chemistry Research*, **2012**, 51, 4545-4555	3.9	25
318	Ring-opening of decalin – Kinetic modelling. *Fuel*, **2009**, 88, 366-373	7.1	25
317	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	4.4	25
316	Effect of Ultrasound on Catalytic Hydrogenation of d-Fructose to d-Mannitol. *Industrial & Engineering Chemistry Research*, **2005**, 44, 9370-9375	3.9	25
315	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	2.8	25
314	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	5.3	25
313	Kinetic study of the carboxymethylation of cellulose. *Industrial & Engineering Chemistry Research*, **1994**, 33, 1454-1459	3.9	25

312	Kinetic modelling of Prileschajew epoxidation of oleic acid under conventional heating and microwave irradiation. *Chemical Engineering Science*, **2019**, 199, 426-438	4.4	24
311	Continuous hydrogenation of glucose with ruthenium on carbon nanotube catalysts. *Catalysis Science and Technology*, **2015**, 5, 953-959	5.5	24
310	Zeta Potential of Beta Zeolites: Influence of Structure, Acidity, pH, Temperature and Concentration. *Molecules*, **2018**, 23,	4.8	24
309	Solid-liquid reaction kinetics Experimental aspects and model development. *Reviews in Chemical Engineering*, **2011**, 27,	5	24
308	Investigation of CO oxidation and NO reduction on three-way monolith catalysts with transient response techniques. *Applied Catalysis B: Environmental*, **1997**, 12, 287-308	21.8	24
307	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	3.9	24
306	Effect of Internal Diffusion in Supported Ionic Liquid Catalysts: Interaction with Kinetics. *Industrial & Engineering Chemistry Research*, **2007**, 46, 3932-3940	3.9	24
305	Heterogeneously Catalytic Isomerization of Linoleic Acid over Supported Ruthenium Catalysts for Production of Anticarcinogenic Food Constituents. *Industrial & Engineering Chemistry Research*, **2003**, 42, 718-727	3.9	24
304	Bromide and Acids: A Comprehensive Study on Their Role on the Hydrogen Peroxide Direct Synthesis. *Industrial & Engineering Chemistry Research*, **2017**, 56, 13367-13378	3.9	23
303	Influence of gas-liquid mass transfer on kinetic modeling: Carbonation of epoxidized vegetable oils. *Chemical Engineering Journal*, **2017**, 313, 1168-1183	14.7	23
302	Selective Oxidation of D-Galactose over Gold Catalysts. *ChemCatChem*, **2011**, 3, 1789-1798	5.2	23
301	Reversible Autocatalytic Hydrolysis of Alkyl Formate: Kinetic and Reactor Modeling. *Industrial & Engineering Chemistry Research*, **2010**, 49, 4099-4106	3.9	23
300	Modeling the Influence of Wood Anisotropy and Internal Diffusion on Delignification Kinetics. *Industrial & Engineering Chemistry Research*, **2010**, 49, 9703-9711	3.9	23
299	Cu-MCM-41, H-MCM-41 and Na-MCM-41 Mesoporous Molecular Sieve Catalysts for Isomerization of 1-Butene to Isobutene. *Catalysis Letters*, **2002**, 78, 105-110	2.8	23
298	Development and verification of a simulation model for a non-isothermal water-gas shift reactor. *The Chemical Engineering Journal*, **1992**, 48, 17-29		23
297	Modeling of microreactors for ethylene epoxidation and total oxidation. *Chemical Engineering Science*, **2015**, 134, 563-571	4.4	22
296	Epoxidation of Fatty Acids and Vegetable Oils Assisted by Microwaves Catalyzed by a Cation Exchange Resin. *Industrial & Engineering Chemistry Research*, **2018**, 57, 3876-3886	3.9	22
295	Methyl chloride synthesis over Al2O3 catalyst coated microstructured reactor Thermodynamics, kinetics and mass transfer. *Chemical Engineering Science*, **2013**, 95, 232-245	4.4	22

294	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	7.3	22
293	Mechanistic modelling of kinetics and mass transfer for a solid□quid system: Leaching of zinc with ferric iron. *Chemical Engineering Science*, **2010**, 65, 4460-4471	4.4	22
292	Kinetics of Citral Hydrogenation by Supported Ionic Liquid Catalysts (SILCA) for Fine Chemicals. *Industrial & Engineering Chemistry Research*, **2007**, 46, 9022-9031	3.9	22
291	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	4.4	22
290	Impact of Catalyst Reduction Mode on Selective Hydrogenation of Cinnamaldehyde over Ru□n Sol□□el Catalysts. *Industrial & Engineering Chemistry Research*, **2003**, 42, 295-305	3.9	22
289	Kinetic Model for the Homogeneously Catalyzed Polyesterification of Dicarboxylic Acids with Diols. *Industrial & Engineering Chemistry Research*, **1996**, 35, 3951-3963	3.9	22
288	Deactivation of the high-temperature water-gas shift catalyst in nonisothermal conditions. *Applied Catalysis A: General*, **1992**, 87, 185-203	5.1	22
287	Esterification of fatty acids with ethanol over layered zinc laurate and zinc stearate □Kinetic modeling. *Fuel*, **2015**, 153, 445-454	7.1	21
286	Aqueous extraction of hemicelluloses from spruce--From hot to warm. *Bioresource Technology*, **2016**, 199, 279-282	11	21
285	Acid hydrolysis of O-acetyl-galactoglucomannan. *Catalysis Science and Technology*, **2013**, 3, 116-122	5.5	21
284	Gas phase hydrogenation of o- and p-xylene on NiAl2O3 □Kinetic modelling. *Applied Catalysis A: General*, **1997**, 150, 115-129	5.1	21
283	Cascade approach for synthesis of R-1-phenyl ethyl acetate from acetophenone: Effect of support. *Journal of Molecular Catalysis A*, **2008**, 285, 132-141		21
282	Hydrogenation of Citral over Activated Carbon Cloth Catalyst□ *Industrial & Engineering Chemistry Research*, **2005**, 44, 5285-5290	3.9	21
281	Effects of solvent polarity on the hydrogenation of xylose. *Journal of Chemical Technology and Biotechnology*, **2001**, 76, 90-100	3.5	21
280	Modeling of the enantioselective hydrogenation of 1-phenyl-1,2-propanedione over Pt/Al2O3 catalyst. *Catalysis Today*, **2001**, 66, 411-417	5.3	21
279	Kinetics of m-xylene hydrogenation on NiAl2O3. *Applied Catalysis A: General*, **1996**, 141, 207-228	5.1	21
278	Kinetic model for main and side reactions in the polyesterification of dicarboxylic acids with diols. *Chemical Engineering Science*, **1994**, 49, 3601-3616	4.4	21
277	Kinetics of melt polymerization of maleic acid phthalic acids with propylene glycol. *Chemical Engineering Science*, **1994**, 49, 5053-5070	4.4	21

276	Revealing the role of bromide in the H2O2 direct synthesis with the catalyst wet pretreatment method (CWPM). *AICHE Journal*, **2017**, 63, 32-42	3.6	20
275	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	3.5	20
274	Kinetics of Methyl Formate Hydrolysis in the Absence and Presence of a Complexing Agent. *Industrial & Engineering Chemistry Research*, **2011**, 50, 267-276	3.9	20
273	Synthesis of peroxypropionic acid from propionic acid and hydrogen peroxide over heterogeneous catalysts. *Chemical Engineering Journal*, **2009**, 147, 323-329	14.7	20
272	Kinetics of linoleic acid hydrogenation on Pd/C catalyst. *Applied Catalysis A: General*, **2009**, 353, 166-180	5.1	20
271	Inverse temperature dependence due to catalyst deactivation in liquid phase citral hydrogenation over Pt/Al2O3. *Chemical Engineering Journal*, **2006**, 122, 127-134	14.7	20
270	Modelling of the high temperature water gas shift reaction with stationary and transient experiments. *Chemical Engineering Science*, **1986**, 41, 929-936	4.4	20
269	Chemical composition and extraction kinetics of Holm oak (Quercus ilex) hemicelluloses using subcritical water. *Journal of Supercritical Fluids*, **2017**, 129, 56-62	4.2	19
268	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	5.3	19
267	Promotional effects of Au in Pd□Au bimetallic catalysts supported on activated carbon cloth (ACC) for direct synthesis of H2O2 from H2 and O2. *Catalysis Today*, **2015**, 248, 58-68	5.3	19
266	Arabinogalactan hydrolysis and hydrolytic hydrogenation using functionalized carbon materials. *Catalysis Today*, **2015**, 257, 169-176	5.3	19
265	Application of linear free-energy relationships to perhydrolysis of different carboxylic acids over homogeneous and heterogeneous catalysts. *Journal of Molecular Catalysis A*, **2009**, 303, 148-155		19
264	Dynamic modelling of catalytic liquid-phase reactions in fixed beds□Kinetics and catalyst deactivation in the recovery of anthraquinones. *Chemical Engineering Science*, **2006**, 61, 4528-4539	4.4	19
263	Hemicelluloses from stone pine, holm oak, and Norway spruce with subcritical water extraction □ comparative study with characterization and kinetics. *Journal of Supercritical Fluids*, **2018**, 133, 647-657	4.2	19
262	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	5.5	18
261	Carbonation of Vegetable Oils: Influence of Mass Transfer on Reaction Kinetics. *Industrial & Engineering Chemistry Research*, **2015**, 54, 10935-10944	3.9	18
260	Reactivity Aspects of SBA15-Based Doped Supported Catalysts: H2O2 Direct Synthesis and Disproportionation Reactions. *Topics in Catalysis*, **2013**, 56, 540-549	2.3	18
259	Kinetics of Lactose Hydrogenation over Ruthenium Nanoparticles in Hypercrosslinked Polystyrene. *Industrial & Engineering Chemistry Research*, **2013**, 52, 14066-14080	3.9	18

258	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	2.3	18
257	Kinetic Modeling of Propene Hydroformylation with Rh/TPP and Rh/CHDPP Catalysts. *Industrial & Engineering Chemistry Research*, **2008**, 47, 4317-4324	3.9	18
256	Reactions of hydroxymatairesinol over supported palladium catalysts. *Journal of Catalysis*, **2006**, 238, 301-308	7.3	18
255	Synthesis and characterization of Pd-MCM-22 and Pt-SAPO-11 catalysts for transformation of n-butane to aromatic hydrocarbons. *Applied Catalysis A: General*, **2002**, 227, 97-103	5.1	18
254	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	5.3	18
253	The influence of catalyst amount and Pd loading on the H2O2 synthesis from hydrogen and oxygen. *Catalysis Science and Technology*, **2015**, 5, 3545-3555	5.5	17
252	Zeolite-bentonite hybrid catalysts for the pyrolysis of woody biomass. *Studies in Surface Science and Catalysis*, **2008**, 174, 1069-1074	1.8	17
251	Modeling and Scale-up of Sitosterol Hydrogenation Process:From Laboratory Slurry Reactor to Plant Scale. *Industrial & Engineering Chemistry Research*, **2006**, 45, 7067-7076	3.9	17
250	Advanced Kinetic Concepts and Experimental Methods for Catalytic Three-Phase Processes. *Industrial & Engineering Chemistry Research*, **2004**, 43, 4540-4550	3.9	17
249	Maldistribution susceptibility of monolith reactors: Case study of glucose hydrogenation performance. *AICHE Journal*, **2016**, 62, 4346-4364	3.6	17
248	Biomass to value added chemicals: Isomerisation of β-pinene oxide over supported ionic liquid catalysts (SILCAs) containing Lewis acids. *Catalysis Today*, **2015**, 257, 318-321	5.3	16
247	Influence of two different alcohols in the esterification of fatty acids over layered zinc stearate/palmitate. *Bioresource Technology*, **2015**, 193, 337-44	11	16
246	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	3.5	16
245	Hydrogenation of l-Arabinose and d-Galactose Mixtures Over a Heterogeneous Ru/C Catalyst. *Topics in Catalysis*, **2012**, 55, 550-555	2.3	16
244	Oxidation of Starch by H2O2 in the Presence of Iron Tetrasulfophthalocyanine Catalyst: The Effect of Catalyst Concentration, pH, Solid−Liquid Ratio, and Origin of Starch. *Industrial & Engineering Chemistry Research*, **2013**, 52, 9351-9358	3.9	16
243	Modelling of citral hydrogenation kinetics on an Ni/Al2O3 catalyst. *Catalysis Today*, **1999**, 48, 57-63	5.3	16
242	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	10	15
241	Catalytic Transformation of Abietic Acid to Hydrocarbons. *Topics in Catalysis*, **2012**, 55, 673-679	2.3	15

240	Experimental and Modeling Study of Catalytic Hydrogenation of Glucose to Sorbitol in a Continuously Operating Packed-Bed Reactor. *Industrial & Engineering Chemistry Research*, **2013**, 52, 7690-7703	3.9	15
239	One-pot utilization of heterogeneous and enzymatic catalysis: Synthesis of R-1-phenylethyl acetate from acetophenone. *Catalysis Today*, **2009**, 140, 70-73	5.3	15
238	Sugar Hydrogenation Over Supported Ru/C Kinetics and Physical Properties. *Topics in Catalysis*, **2010**, 53, 1278-1281	2.3	15
237	Process development in the fine chemical industry. *Chemical Engineering Journal*, **2003**, 91, 103-114	14.7	15
236	Structured but not over-structured: Woven active carbon fibre matt catalyst. *Catalysis Today*, **2005**, 105, 325-330	5.3	15
235	Direct synthesis of H2O2 over Pd supported on rare earths promoted zirconia. *Catalysis Today*, **2015**, 256, 294-301	5.3	14
234	Acid hydrolysis of O-acetyl-galactoglucomannan in a continuous tube reactor: a new approach to sugar monomer production. *Holzforschung*, **2016**, 70, 187-194	2	14
233	Solvent Effects in the Enantioselective Hydrogenation of Ethyl Benzoylformate. *Catalysis Letters*, **2013**, 143, 1051-1060	2.8	14
232	Revisiting shrinking particle and product layer models for fluid–solid reactions – From ideal surfaces to real surfaces. *Chemical Engineering and Processing: Process Intensification*, **2011**, 50, 1076-1084	3.7	14
231	Common potholes in modeling solid–liquid reactions—Methods for avoiding them. *Chemical Engineering Science*, **2011**, 66, 4459-4467	4.4	14
230	Solubility of gases in a hydroformylation solvent. *Chemical Engineering Science*, **2006**, 61, 3698-3704	4.4	14
229	Selective synthesis of .alpha.-chlorocarboxylic acids. *Industrial & Engineering Chemistry Research*, **1992**, 31, 2425-2437	3.9	14
228	Intraparticle diffusion model to determine the intrinsic kinetics of ethyl levulinate synthesis promoted by Amberlyst-15. *Chemical Engineering Science*, **2020**, 228, 115974	4.4	14
227	Effect of low hydrogen to palladium molar ratios in the direct synthesis of H2O2 in water in a trickle bed reactor. *Catalysis Today*, **2015**, 248, 91-100	5.3	13
226	Kinetics of the One-Pot Transformation of Citronellal to Menthols on Ru/H-BEA Catalysts. *Organic Process Research and Development*, **2016**, 20, 1647-1653	3.9	13
225	Ethene oxychlorination over CuCl2/γ-Al2O3 catalyst in micro- and millistructured reactors. *Journal of Catalysis*, **2018**, 364, 334-344	7.3	13
224	Kinetics of Acid Hydrolysis of Arabinogalactans. *International Journal of Chemical Reactor Engineering*, **2010**, 8,	1.2	13
223	Kinetic study of decomposition of peroxypropionic acid in liquid phase through direct analysis of decomposition products in gas phase. *Chemical Engineering Science*, **2007**, 62, 5007-5012	4.4	13

222	Modelling of catalyst deactivation in liquid phase reactions: citral hydrogenation on Ru/Al2O3. *Reaction Kinetics and Catalysis Letters*, **2003**, 78, 251-257		13
221	Kinetics of mesitylene hydrogenation on Ni/Al2O3. *Applied Catalysis A: General*, **1999**, 185, 131-136	5.1	13
220	Interfacial mass transfer in trickle-bed reactor modelling. *Chemical Engineering Science*, **1996**, 51, 4335-4345	4.4	13
219	Preparation and characterization of a new bis-layered supported ionic liquid catalyst (SILCA) with an unprecedented activity in the Heck reaction. *Journal of Catalysis*, **2019**, 371, 35-46	7.3	12
218	Influence of the support of copper catalysts on activity and 1,2-dichloroethane selectivity in ethylene oxychlorination. *Applied Catalysis A: General*, **2018**, 556, 41-51	5.1	12
217	Kinetics and Modelling of Levulinic Acid Esterification in Batch and Continuous Reactors. *Topics in Catalysis*, **2018**, 61, 1856-1865	2.3	12
216	Reaction Routes in Selective Ring Opening of Naphthenes. *Topics in Catalysis*, **2010**, 53, 1172-1175	2.3	12
215	Qualitative treatment of catalytic hydrolysis of alkyl formates. *Applied Catalysis A: General*, **2010**, 384, 36-44	5.1	12
214	Modelling of transient kinetics in catalytic three-phase reactors: Enantioselective hydrogenation. *Chemical Engineering Science*, **2010**, 65, 1076-1087	4.4	12
213	Novel woven active carbon fiber catalyst in the hydrogenation of citral. *Catalysis Today*, **2005**, 102-103, 128-132	5.3	12
212	On the Principles of Modelling of Homogeneous–Heterogeneous Reactions in the Production of Fine Chemicals. A Case Study: Reductive Alkylation of Aromatic Amines. *Organic Process Research and Development*, **1998**, 2, 78-85	3.9	12
211	Kinetics and reactor modelling of fatty acid epoxidation in the presence of heterogeneous catalyst. *Chemical Engineering Journal*, **2019**, 375, 121936	14.7	11
210	Application of the Catalyst Wet Pretreatment Method (CWPM) for catalytic direct synthesis of H2O2. *Catalysis Today*, **2015**, 246, 207-215	5.3	11
209	Mass & energy balances coupling in chemical reactors for a better understanding of thermal safety. *Education for Chemical Engineers*, **2016**, 16, 17-28	2.4	11
208	Kinetics and catalyst deactivation in the enantioselective hydrogenation of ethyl benzoylformate over Pt/Al2O3. *Catalysis Science and Technology*, **2014**, 4, 170-178	5.5	11
207	A comprehensive study on the kinetics, mass transfer and reaction engineering aspects of solvent-free glycerol hydrochlorination. *Chemical Engineering Science*, **2014**, 120, 88-104	4.4	11
206	Role of a Functionalized Polymer (K2621) and an Inorganic Material (Sulphated Zirconia) as Supports in Hydrogen Peroxide Direct Synthesis in a Continuous Reactor. *Industrial & Engineering Chemistry Research*, **2013**, 52, 15472-15480	3.9	11
205	Modeling of a Liquid–Liquid–Solid Heterogeneous Reaction System: Model System and Peroxyvaleric Acid. *Industrial & Engineering Chemistry Research*, **2012**, 51, 189-201	3.9	11

204	Palladium catalysts supported on N-functionalized hollow vapor-grown carbon nanofibers: The effect of the basic support and catalyst reduction temperature. *Applied Catalysis A: General*, **2011**, 408, 137-147	5.1	11
203	Rates and equilibria of ester hydrolysis: Combination of slow and rapid reactions. *Chemical Engineering and Processing: Process Intensification*, **2011**, 50, 665-674	3.7	11
202	Dissolution of boehmite in sodium hydroxide at ambient pressure: Kinetics and modelling. *Hydrometallurgy*, **2010**, 102, 22-30	4	11
201	Kinetic modelling of regioselectivity in alkenes hydroformylation over rhodium. *Journal of Molecular Catalysis A*, **2010**, 315, 148-154		11
200	Gas-phase hydrogenation of ethylbenzene over Ni.. *Applied Catalysis A: General*, **2000**, 201, 55-59	5.1	11
199	Catalytic ozonation of the antibiotic sulfadiazine: Reaction kinetics and transformation mechanisms. *Chemosphere*, **2020**, 247, 125853	8.4	11
198	Heterogeneously catalyzed conversion of nordic pulp to levulinic and formic acids. *Reaction Kinetics, Mechanisms and Catalysis*, **2016**, 119, 415-427	1.6	11
197	Oxidative dehydrogenation of ethanol on gold: Combination of kinetic experiments and computation approach to unravel the reaction mechanism. *Journal of Catalysis*, **2021**, 394, 193-205	7.3	11
196	Heterogeneous Catalytic Oxidation of Furfural with Hydrogen Peroxide over Sulfated Zirconia. *Industrial & Engineering Chemistry Research*, **2020**, 59, 13516-13527	3.9	10
195	Ethylene epoxidation over supported silver catalysts Influence of catalyst pretreatment on conversion and selectivity. *Journal of Chemical Technology and Biotechnology*, **2018**, 93, 1549-1557	3.5	10
194	Interconversion of Lactose to Lactulose in Alkaline Environment: Comparison of Different Catalysis Concepts. *Topics in Catalysis*, **2013**, 56, 839-845	2.3	10
193	Kinetic Model for Homogeneously Catalyzed Halogenation of Glycerol. *Industrial & Engineering Chemistry Research*, **2013**, 52, 1523-1530	3.9	10
192	Kinetics upon Isomerization of Pinene Oxides over Supported Ionic Liquid Catalysts Containing Lewis Acids. *Industrial & Engineering Chemistry Research*, **2014**, 53, 20107-20115	3.9	10
191	Ethylene oxide kinetics and mechanism. *Current Opinion in Chemical Engineering*, **2012**, 1, 321-327	5.4	10
190	Dynamic Modeling of Catalyst Deactivation in Fixed-Bed Reactors: Skeletal Isomerization of 1-Pentene on Ferrierite. *Industrial & Engineering Chemistry Research*, **2006**, 45, 558-566	3.9	10
189	The development of monolith reactors: general strategy with a case study. *Chemical Engineering Science*, **2004**, 59, 5629-5635	4.4	10
188	Physico-chemical and catalytic properties of Zr- and Cu r ion-exchanged H-MCM-41. *Physical Chemistry Chemical Physics*, **2004**, 6, 4062-4069	3.6	10
187	Influence of mass transfer on regio- and enantioselectivity in hydrogenation of 1-phenyl-1,2-propanedione over modified Pt catalysts. *Catalysis Today*, **2003**, 79-80, 189-193	5.3	10

186	A highly stable and selective Pt-modified mordenite catalyst for the skeletal isomerization of n-butane. *Applied Catalysis A: General*, **2005**, 284, 223-230	5.1	10
185	Modelling and scale-up of a loop reactor for hydrogenation processes. *Chemical Engineering Science*, **1999**, 54, 2793-2798	4.4	10
184	Modelling and simulation of transient states of ideal heterogeneous catalytic reactors. *Chemical Engineering Science*, **1988**, 43, 503-511	4.4	10
183	Revisiting the dissolution kinetics of limestone experimental analysis and modeling. *Journal of Chemical Technology and Biotechnology*, **2016**, 91, 1517-1531	3.5	10
182	Screening of ion exchange resin catalysts for epoxidation of oleic acid under the influence of conventional and microwave heating. *Journal of Chemical Technology and Biotechnology*, **2019**, 94, 3020-3031	3.5	9
181	High purity fructose from inulin with heterogeneous catalysis kinetics and modelling. *Journal of Chemical Technology and Biotechnology*, **2018**, 93, 224-232	3.5	9
180	Direct Synthesis of 1-Butanol from Ethanol in a Plug Flow Reactor: Reactor and Reaction Kinetics Modeling. *Topics in Catalysis*, **2014**, 57, 1425-1429	2.3	9
179	Catalytic Pyrolysis of Lignocellulosic Biomass **2013**, 137-159		9
178	Isomerisation of Pinene Oxide to Campholenic Aldehyde Over Supported Ionic Liquid Catalysts (SILCAs). *Topics in Catalysis*, **2014**, 57, 1533-1538	2.3	9
177	Modeling of Direct Synthesis of Hydrogen Peroxide in a Packed-Bed Reactor. *Industrial & Engineering Chemistry Research*, **2012**, 51, 13366-13378	3.9	9
176	Green process technology for peroxycarboxylic acids: Estimation of kinetic and dispersion parameters aided by RTD measurements: Green synthesis of peroxycarboxylic acids. *Chemical Engineering Science*, **2011**, 66, 1038-1050	4.4	9
175	Skeletal Isomerization of Butene in Fixed Beds. 1. Experimental Investigation and Structure Performance Effects. *Industrial & Engineering Chemistry Research*, **2008**, 47, 5402-5412	3.9	9
174	Skeletal Isomerization of Butene in Fixed Beds. Part 2. Kinetic and Flow Modeling. *Industrial & Engineering Chemistry Research*, **2008**, 47, 5413-5426	3.9	9
173	Non-traditional three-phase reactor setup for simultaneous acoustic irradiation and hydrogenation. *Journal of Chemical Technology and Biotechnology*, **2003**, 78, 203-207	3.5	9
172	Asymptotic analysis of chemical reactions. *Chemical Engineering Science*, **1999**, 54, 1131-1143	4.4	9
171	Investigation of the catalytic decomposition of NO and N2O on supported Rh with transient techniques. *Chemical Engineering Science*, **1999**, 54, 4343-4349	4.4	9
170	The effect of reaction kinetics, mass transfer and flow pattern on non-catalytic and homogeneously catalyzed gas-liquid reactions in bubble columns. *Chemical Engineering Science*, **1992**, 47, 2493-2498	4.4	9
169	Kinetic modelling of heterogeneous catalytic oxidation of furfural with hydrogen peroxide to succinic acid. *Chemical Engineering Journal*, **2020**, 382, 122811	14.7	9

168	Investigation of the intrinsic reaction kinetics and the mass transfer phenomena of nonanoic acid esterification with 2-ethylhexanol promoted by sulfuric acid or Amberlite IR120. *Chemical Engineering Journal*, **2021**, 408, 127236	14.7	9
167	Catalytic oxidation kinetics of arabinose on supported gold nanoparticles. *Chemical Engineering Journal*, **2019**, 370, 952-961	14.7	8
166	Aqueous phase reforming of alcohols over a bimetallic Pt-Pd catalyst in the presence of formic acid. *Chemical Engineering Journal*, **2020**, 398, 125541	14.7	8
165	Utilisation of a multitubular reactor system for parallel screening of catalysts for ring opening of decalin in continuous mode. *Chemical Engineering Journal*, **2014**, 238, 3-8	14.7	8
164	Kinetic studies of alkyl formate hydrolysis using formic acid as a catalyst. *Journal of Chemical Technology and Biotechnology*, **2012**, 87, 286-293	3.5	8
163	Catalysis for Lignocellulosic Biomass Processing: Methodological Aspects. *Catalysis Letters*, **2012**, 142, 676-689	2.8	8
162	The Dissolution Kinetics of Gibbsite in Sodium Hydroxide at Ambient Pressure. *Industrial & Engineering Chemistry Research*, **2010**, 49, 2600-2607	3.9	8
161	Kinetics of the hydrogenation of citral over supported Ni catalyst. *Studies in Surface Science and Catalysis*, **1997**, 108, 273-280	1.8	8
160	Modelling of organic liquid-phase decomposition reactions through gas-phase product analysis: Model systems and peracetic acid. *Chemical Engineering Science*, **2006**, 61, 6918-6928	4.4	8
159	An integrated dynamic model for reaction kinetics and catalyst deactivation in fixed bed reactors: skeletal isomerization of 1-pentene over ferrierite. *Chemical Engineering Science*, **2006**, 61, 1157-1166	4.4	8
158	Kinetics and modeling of H2/D2 exchange over Ag/Al2O3. *Applied Catalysis A: General*, **2004**, 273, 303-307	5.1	8
157	Kinetics and Stereoselectivity in Gas-Phase Hydrogenation of Alkylbenzenes Over Ni/Al2O3. *Reaction Kinetics and Catalysis Letters*, **2000**, 71, 47-54		8
156	Isothermal multiplicity in catalytic surface reactions with coverage dependent parameters □Case of polyatomic species. *Chemical Engineering Science*, **1996**, 51, 55-62	4.4	8
155	Kinetic model for the synthesis of □-chlorocarboxylic acids. *Chemical Engineering Science*, **1993**, 48, 735-751	4.4	8
154	Thermal risk assessment for the epoxidation of linseed oil by classical Prisleschajew epoxidation and by direct epoxidation by H2O2 on alumina. *Journal of Thermal Analysis and Calorimetry*, **2020**, 140, 673-684	4.1	8
153	The use of modelling to understand the mechanism of hydrogen peroxide direct synthesis from batch, semibatch and continuous reactor points of view. *Reaction Chemistry and Engineering*, **2016**, 1, 300-312	4.9	8
152	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	4.4	8
151	Product distribution analysis of the hydrogen peroxide direct synthesis in an isothermal batch reactor. *Catalysis Today*, **2015**, 248, 108-114	5.3	7

150	Synthesis of carbonated vegetable oils: Investigation of microwave effect in a pressurized continuous-flow recycle batch reactor. *Chemical Engineering Research and Design*, **2018**, 132, 9-18	5.5	7
149	Mathematical modeling of starch oxidation by hydrogen peroxide in the presence of an iron catalyst complex. *Chemical Engineering Science*, **2016**, 146, 19-25	4.4	7
148	Esterification of Fatty Acids and Short-Chain Carboxylic Acids with Stearyl Alcohol and Sterols. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 537-545	8.3	7
147	Modeling and simulation of a small-scale trickle bed reactor for sugar hydrogenation. *Computers and Chemical Engineering*, **2014**, 66, 22-35	4	7
146	Application of film theory on the reactions of solid particles with liquids: Shrinking particles with changing liquid films. *Chemical Engineering Science*, **2017**, 160, 161-170	4.4	7
145	Modeling of a Three-Phase Continuously Operating Isothermal Packed-Bed Reactor: Kinetics, Mass-Transfer, and Dispersion Effects in the Hydrogenation of Citral. *Industrial & Engineering Chemistry Research*, **2012**, 51, 8858-8866	3.9	7
144	Kinetics of dimethyl carbonate synthesis from methanol and carbon dioxide over ZrO2MgO catalyst in the presence of butylene oxide as additive. *Applied Catalysis A: General*, **2011**, 404, 39-39	5.1	7
143	Modelling and experimental verification of cellulose substitution kinetics. *Chemical Engineering Science*, **2011**, 66, 171-182	4.4	7
142	Deposition of carbonaceous species over Ag/alumina catalysts for the HC-SCR of NOx under lean conditions: a qualitative and quantitative study. *Catalysis Science and Technology*, **2011**, 1, 1456	5.5	7
141	Dissolution of Mineral Fiber in a Formic Acid Solution: Kinetics, Modeling, and Gelation of the Resulting Sol. *Industrial & Engineering Chemistry Research*, **2008**, 47, 9834-9841	3.9	7
140	Kinetics of homogeneous catalytic chlorination of acetic acid. *Journal of Chemical Technology and Biotechnology*, **2007**, 40, 259-274	3.5	7
139	Selectivity Enhancement by Catalyst Deactivation in Three-Phase Hydrogenation of Nerol. *Industrial & Engineering Chemistry Research*, **2005**, 44, 9376-9383	3.9	7
138	Modelling of kinetic and transport effects in aldol hydrogenation over metal catalysts. *Chemical Engineering Science*, **2002**, 57, 1793-1803	4.4	7
137	Short overview on the application of metal-modified molecular sieves in selective hydrogenation of cinnamaldehyde. *Catalysis Today*, **2005**, 100, 349-353	5.3	7
136	Transient reduction kinetics of NO over Pd-based metallic monoliths. *Chemical Engineering Science*, **2001**, 56, 1395-1401	4.4	7
135	Polyesterification kinetics of complex mixtures in semibatch reactors. *Chemical Engineering Science*, **2001**, 56, 1293-1298	4.4	7
134	Application of microreactor technology to dehydration of bio-ethanol. *Chemical Engineering Science* , **2021**, 229, 116030	4.4	7
133	Preparation of selective ZnCl2/alumina catalysts for methyl chloride synthesis: Influence of pH, precursor and zinc loading. *Applied Catalysis A: General*, **2015**, 490, 117-127	5.1	6

132	Ozonation of carbamazepine and its main transformation products: product determination and reaction mechanisms. *Environmental Science and Pollution Research*, **2020**, 27, 23258-23269	5.1	6
131	Chromatographic reactor modelling. *Chemical Engineering Journal*, **2019**, 377, 119692	14.7	6
130	Integrated modelling of reaction and catalyst deactivation kinetics: Hydrogenation of sitosterol to sitostanol over a palladium catalyst. *Chemical Engineering Science*, **2013**, 104, 156-165	4.4	6
129	Mechanistic model for kinetics of propene hydroformylation with Rh catalyst. *AICHE Journal*, **2012**, 58, 2192-2201	3.6	6
128	Multitubular reactor design as an advanced screening tool for three-phase catalytic reactions. *Topics in Catalysis*, **2007**, 45, 223-227	2.3	6
127	Utilization of cascade chemo-bio catalysis for the synthesis of R-1-phenylethyl acetate. *Reaction Kinetics and Catalysis Letters*, **2008**, 94, 281-288		6
126	Support Effects in Nerol Hydrogenation over Pt/SiO2, Pt/H-Y and Pt/H-MCM-41 Catalysts. *Catalysis Letters*, **2004**, 98, 173-179	2.8	6
125	Effect of modifier structure in the enantioselective hydrogenation of 1-phenyl-1,2-propanedione. *Reaction Kinetics and Catalysis Letters*, **2002**, 75, 21-30		6
124	Application of transient methods in three-phase catalysis: hydrogenation of a dione in a catalytic plate column. *Catalysis Today*, **2003**, 79-80, 383-389	5.3	6
123	Modeling of Complex Organic Solid–Liquid Reaction Systems in Stirred Tanks. *Industrial & Engineering Chemistry Research*, **2003**, 42, 2516-2524	3.9	6
122	Catalytic reduction of NO by H2 over Ag/Al2O3 under dry reducing conditions. *Applied Catalysis A: General*, **2005**, 294, 49-58	5.1	6
121	Kinetics of the Chlorination of Acetic Acid with Chlorine in the Presence of Chlorosulfonic Acid and Thionyl Chloride. *Industrial & Engineering Chemistry Research*, **1994**, 33, 2073-2083	3.9	6
120	Hydrogen peroxide obtained via direct synthesis as alternative raw material for ultrapurification process to produce electronic grade chemical. *Journal of Chemical Technology and Biotechnology*, **2016**, 91, 1136-1148	3.5	6
119	Influence of Metal Precursors and Reduction Protocols on the Chloride-Free Preparation of Catalysts for the Direct Synthesis of Hydrogen Peroxide without Selectivity Enhancers. *ChemCatChem*, **2016**, 8, 1564-1574	5.2	6
118	Advanced millireactor technology for the kinetic investigation of very rapid reactions: Dehydrochlorination of 1,3-dichloro-2-propanol to epichlorohydrin. *Chemical Engineering Science*, **2016**, 149, 35-41	4.4	6
117	Synthesis and Characterization Ru–/SiO2 Aerogel Catalysts for Sugar Hydrogenation Reactions. *Catalysis Letters*, **2018**, 148, 3514-3523	2.8	6
116	Effect of Zn/Co initial preparation ratio in the activity of double metal cyanide catalysts for propylene oxide and CO2 copolymerization. *European Polymer Journal*, **2017**, 88, 280-291	5.2	5
115	Reaction engineering approach to the synthesis of sodium borohydride. *Chemical Engineering Science*, **2019**, 199, 79-87	4.4	5

114	Epoxidation of Tall Oil Catalyzed by an Ion Exchange Resin under Conventional Heating and Microwave Irradiation. *Industrial & Engineering Chemistry Research*, **2020**, 59, 10397-10406	3.9	5
113	Modelling of a microreactor for the partial oxidation of 1-butanol on a titania supported gold catalyst. *Chemical Engineering Science*, **2020**, 221, 115695	4.4	5
112	Microreactor coating with Au/Al2O3 catalyst for gas-phase partial oxidation of ethanol: Physico-chemical characterization and evaluation of catalytic properties. *Chemical Engineering Journal*, **2019**, 378, 122179	14.7	5
111	Screening of potential complexing agents in methyl formate hydrolysis. *Journal of Molecular Liquids* , **2014**, 196, 334-339	6	5
110	Liquid Holdup by Gravimetric Recirculation Continuous Measurement Method. Application to Trickle Bed Reactors under Pressure at Laboratory Scale. *Industrial & Engineering Chemistry Research*, **2017**, 56, 13294-13300	3.9	5
109	Mechanism of the chemoBio catalyzed cascade synthesis of R-1-phenylethyl acetate over Pd/Al2O3, lipase, and Ru-catalysts. *Research on Chemical Intermediates*, **2010**, 36, 193-210	2.8	5
108	Kinetics and modeling of (R,S)-1-phenylethanol acylation over lipase. *International Journal of Chemical Kinetics*, **2010**, 42, 629-639	1.4	5
107	Modelling of Consecutive Reactions with a Semibatch Liquid Phase:Enhanced Kinetic Information by a New Experimental Concept. *Industrial & Engineering Chemistry Research*, **2007**, 46, 3912-3921	3.9	5
106	Ultrasonic Irradiation in Enantioselective Hydrogenation of 1-Phenyl-1,2-Propanedione. *Reaction Kinetics and Catalysis Letters*, **2001**, 73, 3-11		5
105	Hydrogenation Kinetics of 2,2-Dimethylol-1-butanal to Trimethylolpropane over a Supported Nickel Catalyst. *Industrial & Engineering Chemistry Research*, **2000**, 39, 2876-2882	3.9	5
104	The role of acetyl chloride in the chlorination of acetic acid. *Journal of Chemical Technology and Biotechnology*, **1994**, 61, 1-10	3.5	5
103	Advanced Oxidation Process for Degradation of Carbamazepine from Aqueous Solution: Influence of Metal Modified Microporous, Mesoporous Catalysts on the Ozonation Process. *Catalysts*, **2020**, 10, 90	4	5
102	Biohydrogen from dilute side streams - Influence of reaction conditions on the conversion and selectivity in aqueous phase reforming of xylitol. *Biomass and Bioenergy*, **2020**, 138, 105590	5.3	5
101	Influence of steric effects on the kinetics of cyclic-carbonate vegetable oils aminolysis. *Chemical Engineering Science*, **2020**, 228, 115954	4.4	5
100	Synthesis and Characterization of Metal Modified Catalysts for Decomposition of Ibuprofen from Aqueous Solutions. *Catalysts*, **2020**, 10, 786	4	5
99	Dynamic modelling of homogeneously catalysed glycerol hydrochlorination in bubble column reactor. *Chemical Engineering Science*, **2016**, 149, 277-295	4.4	5
98	Ketonization kinetics of stearic acid. *Reaction Kinetics, Mechanisms and Catalysis*, **2019**, 126, 601-610	1.6	5
97	Kinetics of ethanol hydrochlorination over Al2O3 in a microstructured reactor. *Chemical Engineering Science*, **2015**, 134, 681-693	4.4	4

96	Optimized H2O2 production in a trickled bed reactor, using water and methanol enriched with selectivity promoters. *Chemical Engineering Science*, **2015**, 123, 334-340	4.4	4
95	Pt Modified Heterogeneous Catalysts Combined with Ozonation for the Removal of Diclofenac from Aqueous Solutions and the Fate of by-Products. *Catalysts*, **2020**, 10, 322	4	4
94	Continuous Hydrogenation of Monomeric Sugars and Binary Sugar Mixtures on a Ruthenium Catalyst Supported by Carbon-Coated Open-Cell Aluminum Foam. *Industrial & Engineering Chemistry Research*, **2020**, 59, 13450-13459	3.9	4
93	High purity fructose from inulin with heterogeneous catalysis: from batch to continuous operation. *Journal of Chemical Technology and Biotechnology*, **2019**, 94, 418-425	3.5	4
92	Application of an Extended Shrinking Film Model to Limestone Dissolution. *Industrial & Engineering Chemistry Research*, **2017**, 56, 13254-13261	3.9	4
91	Stability of hydrogen peroxide during perhydrolysis of carboxylic acids on acidic heterogeneous catalysts. *Research on Chemical Intermediates*, **2010**, 36, 389-401	2.8	4
90	Optimization of the Reaction Conditions for Complex Kinetics in a Semibatch Reactor. *Industrial & Engineering Chemistry Research*, **1997**, 36, 5196-5206	3.9	4
89	Modelling of speciality chemicals production in liquid–liquid reactors: A case study: synthesis of diols. *Chemical Engineering Science*, **1999**, 54, 1-18	4.4	4
88	Kinetic model for the synthesis of monochloroacetic acid. *Chemical Engineering Science*, **1988**, 43, 1143-1151	4.4	4
87	Alumina ceramic foams as catalyst supports. *Catalysis*,28-50	1.6	4
86	Study of the Product Distribution in the Epoxidation of Propylene over TS-1 Catalyst in a Trickle-Bed Reactor. *Industrial & Engineering Chemistry Research*, **2021**, 60, 2430-2438	3.9	4
85	Combination of Reaction and Separation in Heterogeneous Catalytic Hydrogenation of Ethylformate. *Chemical Engineering and Technology*, **2015**, 38, 804-812	2	3
84	Sugar hydrogenation in continuous reactors: From catalyst particles towards structured catalysts. *Chemical Engineering and Processing: Process Intensification*, **2016**, 109, 1-10	3.7	3
83	Crystallization of Nano-Calcium Carbonate: The Influence of Process Parameters. *Chemie-Ingenieur-Technik*, **2016**, 88, 1609-1616	0.8	3
82	Continuous H2O2 direct synthesis process: an analysis of the process conditions that make the difference. *Green Processing and Synthesis*, **2016**, 5,	3.9	3
81	Influence of the specific surface area and silver crystallite size of mesoporous Ag/SrTiO3 on the selectivity enhancement of ethylene oxide production. *Journal of Chemical Technology and Biotechnology*, **2019**, 94, 3839-3849	3.5	3
80	Hemicellulose Hydrolysis in the Presence of Heterogeneous Catalysts. *Topics in Catalysis*, **2014**, 57, 1470-1475	2.4	3
79	Physical modeling of the laboratory-scale packed bed reactor for partial gas-phase oxidation of alcohol using gold nanoparticles as the heterogeneous catalyst. *Chemical Engineering Research and Design*, **2017**, 117, 448-459	5.5	3

78	Kinetic and diffusion study of acid-catalyzed liquid-phase alkyl formates hydrolysis. *Chemical Engineering Science*, **2012**, 69, 201-210	4.4	3
77	Hydroformylation of 1-Butene on Rh Catalyst. *Industrial & Engineering Chemistry Research*, **2009**, 48, 1325-1331	3.9	3
76	Preparation of dimethoxyborane and analysis by Fourier transform infrared spectroscopy. *Research on Chemical Intermediates*, **2007**, 33, 645-654	2.8	3
75	Enhancing consecutive reactions during three phase hydrogenation with a semibatch liquid phase. *Chemical Engineering Journal*, **2007**, 134, 268-275	14.7	3
74	Kinetics and Mass Transfer of Organic Liquid-Phase Reactions in the Presence of a Sparingly Soluble Solid Phase. *Organic Process Research and Development*, **2000**, 4, 323-332	3.9	3
73	Selective Synthesis of .alpha.-Chloropropanoic Acid. *Industrial & Engineering Chemistry Research*, **1995**, 34, 1976-1993	3.9	3
72	Kinetic analysis of the reaction network in the catalyzed polyesterification of unsaturated carboxylic acids. *Chemical Engineering Science*, **1996**, 51, 2799-2804	4.4	3
71	Kinetics of the chlorination of propanoic acid in the presence of chlorosulphonic acid. *Chemical Engineering Science*, **1995**, 50, 2275-2288	4.4	3
70	Modeling and simulation of stationary catalytic processes. *International Journal of Chemical Kinetics* , **1989**, 21, 885-908	1.4	3
69	New insights into the cocatalyst-free carbonation of vegetable oil derivatives using heterogeneous catalysts. *Journal of CO2 Utilization*, **2022**, 57, 101879	7.6	3
68	Chapter 3:Catalytic Hydrogenation of Sugars. *RSC Green Chemistry*,89-133	0.9	3
67	Prilezhaev epoxidation of oleic acid in the presence and absence of ultrasound irradiation. *Journal of Chemical Technology and Biotechnology*, **2021**, 96, 1874-1881	3.5	3
66	Glucose transformations over a mechanical mixture of ZnO and Ru/C catalysts: Product distribution, thermodynamics and kinetics. *Chemical Engineering Journal*, **2021**, 405, 126945	14.7	3
65	Oxidation of glucose and arabinose mixtures over Au/Al2O3. *Reaction Kinetics, Mechanisms and Catalysis*, **2021**, 132, 59-72	1.6	3
64	Kinetic study of the carbonation of epoxidized fatty acid methyl ester catalyzed over heterogeneous catalyst HBimCl-NbCl5/HCMC. *International Journal of Chemical Kinetics*, **2021**, 53, 1203-1219	1.4	3
63	Complexation equilibria studies of alkyl formate hydrolysis in the presence of 1-butylimidazole. *Thermochimica Acta*, **2017**, 652, 62-68	2.9	2
62	Kinetics of ceria-catalysed ethene oxychlorination. *Journal of Catalysis*, **2019**, 372, 287-298	7.3	2
61	Preparation of Al2O3/Al2O3 ceramic foams as catalyst carriers via the replica technique. *Catalysis Today*, **2020**,	5.3	2

60	Aqueous phase reforming of xylitol and xylose in the presence of formic acid. *Catalysis Science and Technology*, **2020**, 10, 5245-5255	5.5	2
59	Techno-Economic Analysis for Production of L-Arabitol from L-Arabinose. *Chemical Engineering and Technology*, **2020**, 43, 1260-1267	2	2
58	Optimization of Photooxidative Removal of Phenazopyridine from Water. *Russian Journal of Physical Chemistry A*, **2018**, 92, 876-883	0.7	2
57	Is selective hydrogenation of molecular oxygen to H2O2 affected by strong metal support interactions on Pd/TiO2 catalysts? A case study using commercially available TiO2. *Comptes Rendus Chimie*, **2016**, 19, 1011-1020	2.7	2
56	Kinetic Modeling of Ethyl Benzoylformate Enantioselective Hydrogenation over Pt/Al2O3. *Industrial & Engineering Chemistry Research*, **2014**, 53, 11945-11953	3.9	2
55	3. Reaction intensification by microwave and ultrasound techniques in chemical multiphase systems **2017**, 111-142		2
54	First, second and nth order autocatalytic kinetics in continuous and discontinuous reactors. *Chemical Engineering Science*, **2017**, 172, 453-462	4.4	2
53	Dynamic modelling of simultaneous reaction and distillation in a semibatch reactor system. *Chemical Engineering Science*, **1998**, 53, 113-121	4.4	2
52	Acid catalytic effects in the chlorination of propanoic acid. *Journal of Chemical Technology and Biotechnology*, **2000**, 75, 89-97	3.5	2
51	Process Synthesis and Process Intensification **2017**,		2
50	Continuous Liquid-Phase Epoxidation of Ethylene with Hydrogen Peroxide on a Titanium-Silicate Catalyst. *Industrial & Engineering Chemistry Research*, **2021**, 60, 9429-9436	3.9	2
49	Modelling of a liquid-liquid-solid-gas system: Hydrogenation of dispersed liquid sodium to sodium hydride. *Chemical Engineering Journal*, **2019**, 356, 445-452	14.7	2
48	Intraparticle Modeling of Non-Uniform Active Phase Distribution Catalyst. *ChemEngineering*, **2020**, 4, 24	2.6	2
47	Parameter estimation in kinetic models of complex heterogeneous catalytic reactions using Bayesian statistics. *Reaction Kinetics, Mechanisms and Catalysis*, **2021**, 133, 1-15	1.6	2
46	Identification and Quantification of Transformation Products Formed during the Ozonation of the Non-steroidal Anti-inflammatory Pharmaceuticals Ibuprofen and Diclofenac. *Ozone: Science and Engineering*,1-15	2.4	2
45	Modelling of transient kinetics in trickle bed reactors: Ethylene oxide production via hydrogen peroxide. *Chemical Engineering Science*, **2021**, 248, 117156	4.4	2
44	A Robust Method for the Estimation of Kinetic Parameters for Systems Including Slow and Rapid Reactions From Differential-Algebraic Model to Differential Model. *Processes*, **2020**, 8, 1552	2.9	1
43	Modeling of the catalytic deoxygenation of fatty acids in a packed bed reactor **2016**, 365-376		1

42	Chemical Reaction Engineering of Biomass Conversion. *Advances in Chemical Engineering*, **2013**, 42, 195-260	2.6	1
41	Enantioselective Hydrogenation of Ethyl Benzoylformate, from Mechanism and Kinetics to Continuous Reactor Technology. *Topics in Catalysis*, **2014**, 57, 1576-1581	2.3	1
40	Sugar hydrogenation□ombined heat and mass transfer. *Computer Aided Chemical Engineering*, **2013**, 32, 67-72	0.6	1
39	Catalytic Engineering in the Processing of Biomass into Chemicals **2010**, 163-188		1
38	Kinetic modeling of lipase-mediated one-pot chemo-bio cascade synthesis of R-1-phenyl ethyl acetate starting from acetophenone. *Journal of Chemical Technology and Biotechnology*, **2009**, 85, n/a-n/a	3.5	1
37	Kinetics and mass transfer in hydroformylation□Bulk or film reaction?. *Canadian Journal of Chemical Engineering*, **2010**, 88, n/a-n/a	2.3	1
36	Catalysis Involving Multi-Centered Species on Nonuniform Surfaces, 2. Kinetics. *Reaction Kinetics and Catalysis Letters*, **2000**, 70, 227-234		1
35	Factorization of reaction systems applied to catalytic reactions. *Chemical Engineering Science*, **1990**, 45, 237-241	4.4	1
34	Competing commercial catalysts: Unprecedented catalyst activity and stability of Mizoroki-Heck reaction in a continuous packed bed reactor. *Chemical Engineering Journal*, **2022**, 433, 134432	14.7	1
33	Tuned Bis-Layered Supported Ionic Liquid Catalyst (SILCA) for Competitive Activity in the Heck Reaction of Iodobenzene and Butyl Acrylate. *Catalysts*, **2020**, 10, 963	4	1
32	Understanding of Solid-Fluid Kinetics and Mass Transfer: From Ideal to Non-ideal Models, From Perfect Spheres to Moon Landscape. *Frontiers in Chemical Engineering*, **2020**, 2,	1	1
31	Catalytic activity of gold nanoparticles deposited on N-doped carbon-based supports in oxidation of glucose and arabinose mixtures. *Research on Chemical Intermediates*, **2021**, 47, 2573	2.8	1
30	Modelling of kinetics, mass transfer and flow pattern on open foam structures in tubular reactors: Hydrogenation of arabinose and galactose on ruthenium catalyst. *Chemical Engineering Science*, **2021**, 233, 116385	4.4	1
29	Intraparticle Model for Non-Uniform Active Phase Distribution Catalysts in a Batch Reactor. *ChemEngineering*, **2021**, 5, 38	2.6	1
28	Comparative Study of Reactive Flash Distillation vs Semibatch Reactor Technologies for the Glycerol Hydrochlorination with Gaseous HCl. *Industrial & Engineering Chemistry Research*, **2016**, 55, 5500-5513	3.9	1
27	Solid Foam Ru/C Catalysts for Sugar Hydrogenation to Sugar Alcohols-Preparation, Characterization, Activity, and Selectivity.. *Industrial & Engineering Chemistry Research*, **2022**, 61, 2734-2747	3.9	1
26	Levulinic Acid Production: Comparative Assessment of Al-Rich Ordered Mesoporous Silica and Microporous Zeolite. *Catalysis Letters*,1	2.8	1
25	Aqueous phase reforming of birch and pine hemicellulose hydrolysates.. *Bioresource Technology*, **2022**, 348, 126809	11	0

24	Reactor Selection for Upgrading Hemicelluloses: Conventional and Miniaturised Reactors for Hydrogenations. *Processes*, **2021**, 9, 1558	2.9	0
23	Mathematical modelling of oleic acid epoxidation via a chemo-enzymatic route From reaction mechanisms to reactor model. *Chemical Engineering Science*, **2022**, 247, 117047	4.4	0
22	Reaction mechanism and intrinsic kinetics of sugar hydrogenation to sugar alcohols on solid foam Ru/C catalysts From arabinose and galactose to arabitol and galactitol. *Chemical Engineering Science*, **2022**, 254, 117627	4.4	0
21	A novel approach to inulin depolymerization: A Monte Carlo based model. *Chemical Engineering Science*, **2022**, 256, 117712	4.4	0
20	Nonanoic acid esterification with 2-ethylhexanol: From batch to continuous operation. *Chemical Engineering Journal*, **2022**, 444, 136572	14.7	0
19	Factors Influencing Hydrogenation and Decomposition of H2O2 Over PdAu Catalysts Supported on Activated Carbon Cloth (ACC). *Topics in Catalysis*, **2015**, 58, 1019-1035	2.3	
18	Mass Transfer and Catalytic Reactions **2016**, 589-664		
17	Kinetic Modeling **2016**, 665-721		
16	Dynamic Catalysis **2016**, 497-587		
15	7. Design and modeling of laboratory scale three-phase fixed bed reactors **2015**, 283-332		
14	15th Nordic Symposium on Catalysis, Mariehamn, land, June 16 18, 2012. *Topics in Catalysis*, **2013**, 56, 511-511	2.3	
13	Catalytic Transformation of Extractives **2013**, 309-339		
12	ANN modeling applied to NO x reduction with octane in a new microreactor. *Topics in Catalysis*, **2007**, 42-43, 195-198	2.3	
11	Parallel hydrogenation of 2,2-dimethylol-1-butanal and formaldehyde over supported NiCr and CuCr catalysts. *Journal of Chemical Technology and Biotechnology*, **2002**, 77, 533-538	3.5	
10	Modelling of complex liquidolid reaction systems in semibatch reactors: Claisen condensation in industrial scale. *Chemical Engineering Science*, **2001**, 56, 699-705	4.4	
9	Revealing the role of stabilizers in H2O2 for the peroxyformic acid synthesis and decomposition kinetics. *Chemical Engineering Science*, **2022**, 251, 117488	4.4	
8	Interaction of Intrinsic Kinetics, Catalyst Durability and Internal Mass Transfer in the Oxidation of Sugar Mixtures on Gold Nanoparticle Extrudates. *Industrial & Engineering Chemistry Research*, **2021**, 60, 6483-6500	3.9	
7	Mass Transfer in a Porous Particle MCMC Assisted Parameter Estimation of Dynamic Model under Uncertainties. *Computer Aided Chemical Engineering*, **2014**, 277-282	0.6	

6	Determination of kinetics and equilibria of heterogeneously catalyzed gas-phase reactions in gradientless autoclave reactors by using the total pressure method: Methanol synthesis. *Chemical Engineering Science*, **2020**, 215, 115393	4.4
5	A Simulation Case Study for Bio-based Hydrogen Production from Hardwood Hemicellulose. *Computer Aided Chemical Engineering*, **2020**, 48, 1735-1740	0.6
4	Application of semibatch technology on the investigation of homogeneously catalyzed consecutive and parallel-consecutive liquid-phase reactions: Kinetic measurements and modelling. *Chemical Engineering Science*, **2021**, 233, 116397	4.4
3	Model Discrimination for Hydrogen Peroxide Consumption towards Alumina in Homogeneous Liquid and Heterogeneous Liquid-Liquid Systems. *Processes*, **2021**, 9, 1476	2.9
2	Selective Oxidation of Arabinose on Gold Catalysts: Process Design and Techno-economic Assessment. *Chemical Engineering and Technology*, **2021**, 44, 1775-1782	2
1	Lipase catalyzed green epoxidation of oleic acid using ultrasound as a process intensification method. *Chemical Engineering and Processing: Process Intensification*, **2022**, 174, 108882	3.7