

# Tapio Salmi

## List of Publications by Year in Descending Order

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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
4 <sup>19</sup>	Revealing the role of stabilizers in H <sub>2</sub> O <sub>2</sub> for the peroxyformic acid synthesis and decomposition kinetics. <i>Chemical Engineering Science</i> , <b>2022</b> , 251, 117488	4.4	0
4 <sup>18</sup>	Aqueous phase reforming of birch and pine hemicellulose hydrolysates.. <i>Bioresource Technology</i> , <b>2022</b> , 348, 126809	11	0
4 <sup>17</sup>	New insights into the cocatalyst-free carbonation of vegetable oil derivatives using heterogeneous catalysts. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2022</b> , 57, 101879	7.6	3
4 <sup>16</sup>	Competing commercial catalysts: Unprecedented catalyst activity and stability of Mizoroki-Heck reaction in a continuous packed bed reactor. <i>Chemical Engineering Journal</i> , <b>2022</b> , 433, 134432	14.7	1
4 <sup>15</sup>	Mathematical modelling of oleic acid epoxidation via a chemo-enzymatic route [From reaction mechanisms to reactor model. <i>Chemical Engineering Science</i> , <b>2022</b> , 247, 117047	4.4	0
4 <sup>14</sup>	Solid Foam Ru/C Catalysts for Sugar Hydrogenation to Sugar Alcohols-Preparation, Characterization, Activity, and Selectivity.. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2022</b> , 61, 2734-2747	3.9	1
4 <sup>13</sup>	Lipase catalyzed green epoxidation of oleic acid using ultrasound as a process intensification method. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2022</b> , 174, 108882	3.7	0
4 <sup>12</sup>	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. <i>Chemical Engineering Science</i> , <b>2022</b> , 254, 117627	4.4	0
4 <sup>11</sup>	A novel approach to inulin depolymerization: A Monte Carlo based model. <i>Chemical Engineering Science</i> , <b>2022</b> , 256, 117712	4.4	0
4 <sup>10</sup>	Nonanoic acid esterification with 2-ethylhexanol: From batch to continuous operation. <i>Chemical Engineering Journal</i> , <b>2022</b> , 444, 136572	14.7	0
4 <sup>09</sup>	Interaction of Intrinsic Kinetics, Catalyst Durability and Internal Mass Transfer in the Oxidation of Sugar Mixtures on Gold Nanoparticle Extrudates. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 6483-6500	3.9	0
4 <sup>08</sup>	Catalytic activity of gold nanoparticles deposited on N-doped carbon-based supports in oxidation of glucose and arabinose mixtures. <i>Research on Chemical Intermediates</i> , <b>2021</b> , 47, 2573	2.8	1
4 <sup>07</sup>	Prilezhaev epoxidation of oleic acid in the presence and absence of ultrasound irradiation. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2021</b> , 96, 1874-1881	3.5	3
4 <sup>06</sup>	Modelling of kinetics, mass transfer and flow pattern on open foam structures in tubular reactors: Hydrogenation of arabinose and galactose on ruthenium catalyst. <i>Chemical Engineering Science</i> , <b>2021</b> , 233, 116385	4.4	1
4 <sup>05</sup>	Application of semibatch technology on the investigation of homogeneously catalyzed consecutive and parallel-consecutive liquid-phase reactions: Kinetic measurements and modelling. <i>Chemical Engineering Science</i> , <b>2021</b> , 233, 116397	4.4	0
4 <sup>04</sup>	Continuous Liquid-Phase Epoxidation of Ethylene with Hydrogen Peroxide on a Titanium-Silicate Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 9429-9436	3.9	2
4 <sup>03</sup>	Intraparticle Model for Non-Uniform Active Phase Distribution Catalysts in a Batch Reactor. <i>ChemEngineering</i> , <b>2021</b> , 5, 38	2.6	1

402	Glucose transformations over a mechanical mixture of ZnO and Ru/C catalysts: Product distribution, thermodynamics and kinetics. <i>Chemical Engineering Journal</i> , <b>2021</b> , 405, 126945	14.7	3
401	Oxidative dehydrogenation of ethanol on gold: Combination of kinetic experiments and computation approach to unravel the reaction mechanism. <i>Journal of Catalysis</i> , <b>2021</b> , 394, 193-205	7.3	11
400	Application of microreactor technology to dehydration of bio-ethanol. <i>Chemical Engineering Science</i> , <b>2021</b> , 229, 116030	4.4	7
399	Oxidation of glucose and arabinose mixtures over Au/Al <sub>2</sub> O <sub>3</sub> . <i>Reaction Kinetics, Mechanisms and Catalysis</i> , <b>2021</b> , 132, 59-72	1.6	3
398	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. <i>Chemical Engineering Journal</i> , <b>2021</b> , 408, 127236	14.7	9
397	Use of semibatch reactor technology for the investigation of reaction mechanism and kinetics: Heterogeneously catalyzed epoxidation of fatty acid esters. <i>Chemical Engineering Science</i> , <b>2021</b> , 230, 116206	4.4	8
396	Study of the Product Distribution in the Epoxidation of Propylene over TS-1 Catalyst in a Trickle-Bed Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 2430-2438	3.9	4
395	Parameter estimation in kinetic models of complex heterogeneous catalytic reactions using Bayesian statistics. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , <b>2021</b> , 133, 1-15	1.6	2
394	Kinetic study of the carbonation of epoxidized fatty acid methyl ester catalyzed over heterogeneous catalyst HBimCl-NbCl <sub>5</sub> /HCMC. <i>International Journal of Chemical Kinetics</i> , <b>2021</b> , 53, 1203-1219	1.4	3
393	Model Discrimination for Hydrogen Peroxide Consumption towards $\gamma$ -Alumina in Homogeneous Liquid and Heterogeneous Liquid-Liquid Systems. <i>Processes</i> , <b>2021</b> , 9, 1476	2.9	
392	Selective Oxidation of Arabinose on Gold Catalysts: Process Design and Techno-economic Assessment. <i>Chemical Engineering and Technology</i> , <b>2021</b> , 44, 1775-1782	2	
391	Reactor Selection for Upgrading Hemicelluloses: Conventional and Miniaturised Reactors for Hydrogenations. <i>Processes</i> , <b>2021</b> , 9, 1558	2.9	0
390	Modelling of transient kinetics in trickle bed reactors: Ethylene oxide production via hydrogen peroxide. <i>Chemical Engineering Science</i> , <b>2021</b> , 248, 117156	4.4	2
389	A Robust Method for the Estimation of Kinetic Parameters for Systems Including Slow and Rapid Reactions From Differential-Algebraic Model to Differential Model. <i>Processes</i> , <b>2020</b> , 8, 1552	2.9	1
388	Preparation of $\gamma$ -Al <sub>2</sub> O <sub>3</sub> / $\gamma$ -Al <sub>2</sub> O <sub>3</sub> ceramic foams as catalyst carriers via the replica technique. <i>Catalysis Today</i> , <b>2020</b> ,	5.3	2
387	Epoxidation of Tall Oil Catalyzed by an Ion Exchange Resin under Conventional Heating and Microwave Irradiation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 10397-10406	3.9	5
386	Aqueous phase reforming of alcohols over a bimetallic Pt-Pd catalyst in the presence of formic acid. <i>Chemical Engineering Journal</i> , <b>2020</b> , 398, 125541	14.7	8
385	Pt Modified Heterogeneous Catalysts Combined with Ozonation for the Removal of Diclofenac from Aqueous Solutions and the Fate of by-Products. <i>Catalysts</i> , <b>2020</b> , 10, 322	4	4

384	Heterogeneous Catalytic Oxidation of Furfural with Hydrogen Peroxide over Sulfated Zirconia. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 13516-13527	3.9	10
383	Continuous Hydrogenation of Monomeric Sugars and Binary Sugar Mixtures on a Ruthenium Catalyst Supported by Carbon-Coated Open-Cell Aluminum Foam. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 13450-13459	3.9	4
382	Aqueous phase reforming of xylitol and xylose in the presence of formic acid. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 5245-5255	5.5	2
381	Modelling of a microreactor for the partial oxidation of 1-butanol on a titania supported gold catalyst. <i>Chemical Engineering Science</i> , <b>2020</b> , 221, 115695	4.4	5
380	Ozonation of carbamazepine and its main transformation products: product determination and reaction mechanisms. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 23258-23269	5.1	6
379	Techno-Economic Analysis for Production of L-Arabitol from L-Arabinose. <i>Chemical Engineering and Technology</i> , <b>2020</b> , 43, 1260-1267	2	2
378	Advanced Oxidation Process for Degradation of Carbamazepine from Aqueous Solution: Influence of Metal Modified Microporous, Mesoporous Catalysts on the Ozonation Process. <i>Catalysts</i> , <b>2020</b> , 10, 90	4	5
377	Biohydrogen from dilute side streams - Influence of reaction conditions on the conversion and selectivity in aqueous phase reforming of xylitol. <i>Biomass and Bioenergy</i> , <b>2020</b> , 138, 105590	5.3	5
376	Thermal risk assessment for the epoxidation of linseed oil by classical Prileschajew epoxidation and by direct epoxidation by H <sub>2</sub> O <sub>2</sub> on alumina. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 140, 673-684	4.1	8
375	Kinetic modelling of heterogeneous catalytic oxidation of furfural with hydrogen peroxide to succinic acid. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 122811	14.7	9
374	Catalytic ozonation of the antibiotic sulfadiazine: Reaction kinetics and transformation mechanisms. <i>Chemosphere</i> , <b>2020</b> , 247, 125853	8.4	11
373	Determination of kinetics and equilibria of heterogeneously catalyzed gas-phase reactions in gradientless autoclave reactors by using the total pressure method: Methanol synthesis. <i>Chemical Engineering Science</i> , <b>2020</b> , 215, 115393	4.4	
372	A Simulation Case Study for Bio-based Hydrogen Production from Hardwood Hemicellulose. <i>Computer Aided Chemical Engineering</i> , <b>2020</b> , 48, 1735-1740	0.6	
371	Intraparticle diffusion model to determine the intrinsic kinetics of ethyl levulinate synthesis promoted by Amberlyst-15. <i>Chemical Engineering Science</i> , <b>2020</b> , 228, 115974	4.4	14
370	Influence of steric effects on the kinetics of cyclic-carbonate vegetable oils aminolysis. <i>Chemical Engineering Science</i> , <b>2020</b> , 228, 115954	4.4	5
369	Synthesis and Characterization of Metal Modified Catalysts for Decomposition of Ibuprofen from Aqueous Solutions. <i>Catalysts</i> , <b>2020</b> , 10, 786	4	5
368	Tuned Bis-Layered Supported Ionic Liquid Catalyst (SILCA) for Competitive Activity in the Heck Reaction of Iodobenzene and Butyl Acrylate. <i>Catalysts</i> , <b>2020</b> , 10, 963	4	1
367	Understanding of Solid-Fluid Kinetics and Mass Transfer: From Ideal to Non-ideal Models, From Perfect Spheres to Moon Landscape. <i>Frontiers in Chemical Engineering</i> , <b>2020</b> , 2,	1	1

366	Intraparticle Modeling of Non-Uniform Active Phase Distribution Catalyst. <i>ChemEngineering</i> , <b>2020</b> , 4, 24	2.6	2
365	Reaction engineering approach to the synthesis of sodium borohydride. <i>Chemical Engineering Science</i> , <b>2019</b> , 199, 79-87	4.4	5
364	Preparation and characterization of a new bis-layered supported ionic liquid catalyst (SILCA) with an unprecedented activity in the Heck reaction. <i>Journal of Catalysis</i> , <b>2019</b> , 371, 35-46	7.3	12
363	Kinetic modelling of Prileschajew epoxidation of oleic acid under conventional heating and microwave irradiation. <i>Chemical Engineering Science</i> , <b>2019</b> , 199, 426-438	4.4	24
362	Screening of ion exchange resin catalysts for epoxidation of oleic acid under the influence of conventional and microwave heating. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2019</b> , 94, 3020-3031	3.5	9
361	Kinetics and reactor modelling of fatty acid epoxidation in the presence of heterogeneous catalyst. <i>Chemical Engineering Journal</i> , <b>2019</b> , 375, 121936	14.7	11
360	Catalytic oxidation kinetics of arabinose on supported gold nanoparticles. <i>Chemical Engineering Journal</i> , <b>2019</b> , 370, 952-961	14.7	8
359	Kinetics of ceria-catalysed ethene oxychlorination. <i>Journal of Catalysis</i> , <b>2019</b> , 372, 287-298	7.3	2
358	High purity fructose from inulin with heterogeneous catalysis from batch to continuous operation. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2019</b> , 94, 418-425	3.5	4
357	Chromatographic reactor modelling. <i>Chemical Engineering Journal</i> , <b>2019</b> , 377, 119692	14.7	6
356	Influence of the specific surface area and silver crystallite size of mesoporous Ag/SrTiO <sub>3</sub> on the selectivity enhancement of ethylene oxide production. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2019</b> , 94, 3839-3849	3.5	3
355	Microreactor coating with Au/Al <sub>2</sub> O <sub>3</sub> catalyst for gas-phase partial oxidation of ethanol: Physico-chemical characterization and evaluation of catalytic properties. <i>Chemical Engineering Journal</i> , <b>2019</b> , 378, 122179	14.7	5
354	Modelling of a liquid-liquid-solid-gas system: Hydrogenation of dispersed liquid sodium to sodium hydride. <i>Chemical Engineering Journal</i> , <b>2019</b> , 356, 445-452	14.7	2
353	Ketonization kinetics of stearic acid. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , <b>2019</b> , 126, 601-610	1.6	5
352	Advanced oxidation process for the removal of ibuprofen from aqueous solution: A non-catalytic and catalytic ozonation study in a semi-batch reactor. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 230, 77-90	21.8	65
351	Influence of the support of copper catalysts on activity and 1,2-dichloroethane selectivity in ethylene oxychlorination. <i>Applied Catalysis A: General</i> , <b>2018</b> , 556, 41-51	5.1	12
350	Epoxidation of Fatty Acids and Vegetable Oils Assisted by Microwaves Catalyzed by a Cation Exchange Resin. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 3876-3886	3.9	22
349	Aminolysis of cyclic-carbonate vegetable oils as a non-isocyanate route for the synthesis of polyurethane: A kinetic and thermal study. <i>Chemical Engineering Journal</i> , <b>2018</b> , 346, 271-280	14.7	33

348	Ethylene epoxidation over supported silver catalysts – Influence of catalyst pretreatment on conversion and selectivity. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2018</b> , 93, 1549-1557	3.5	10
347	Synthesis of carbonated vegetable oils: Investigation of microwave effect in a pressurized continuous-flow recycle batch reactor. <i>Chemical Engineering Research and Design</i> , <b>2018</b> , 132, 9-18	5.5	7
346	Optimization of Photooxidative Removal of Phenazopyridine from Water. <i>Russian Journal of Physical Chemistry A</i> , <b>2018</b> , 92, 876-883	0.7	2
345	High purity fructose from inulin with heterogeneous catalysis – kinetics and modelling. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2018</b> , 93, 224-232	3.5	9
344	Hemicellulose extraction by hot pressurized water pretreatment at 160 °C for 10 different woods: Yield and molecular weight. <i>Journal of Supercritical Fluids</i> , <b>2018</b> , 133, 716-725	4.2	26
343	Ethene oxychlorination over CuCl <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> catalyst in micro- and millistructured reactors. <i>Journal of Catalysis</i> , <b>2018</b> , 364, 334-344	7.3	13
342	Influence of ring-opening reactions on the kinetics of cottonseed oil epoxidation. <i>International Journal of Chemical Kinetics</i> , <b>2018</b> , 50, 726-741	1.4	26
341	Zeta Potential of Beta Zeolites: Influence of Structure, Acidity, pH, Temperature and Concentration. <i>Molecules</i> , <b>2018</b> , 23,	4.8	24
340	Kinetics and Modelling of Levulinic Acid Esterification in Batch and Continuous Reactors. <i>Topics in Catalysis</i> , <b>2018</b> , 61, 1856-1865	2.3	12
339	Hemicelluloses from stone pine, holm oak, and Norway spruce with subcritical water extraction – comparative study with characterization and kinetics. <i>Journal of Supercritical Fluids</i> , <b>2018</b> , 133, 647-657	4.2	19
338	Synthesis and Characterization RuCl <sub>3</sub> /SiO <sub>2</sub> Aerogel Catalysts for Sugar Hydrogenation Reactions. <i>Catalysis Letters</i> , <b>2018</b> , 148, 3514-3523	2.8	6
337	Revealing the role of bromide in the H <sub>2</sub> O <sub>2</sub> direct synthesis with the catalyst wet pretreatment method (CWPM). <i>AIChE Journal</i> , <b>2017</b> , 63, 32-42	3.6	20
336	Chemical composition and extraction kinetics of Holm oak ( <i>Quercus ilex</i> ) hemicelluloses using subcritical water. <i>Journal of Supercritical Fluids</i> , <b>2017</b> , 129, 56-62	4.2	19
335	Effect of Zn/Co initial preparation ratio in the activity of double metal cyanide catalysts for propylene oxide and CO <sub>2</sub> copolymerization. <i>European Polymer Journal</i> , <b>2017</b> , 88, 280-291	5.2	5
334	Kinetics and modelling of furfural oxidation with hydrogen peroxide over a fibrous heterogeneous catalyst: effect of reaction parameters on yields of succinic acid. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2017</b> , 92, 2206-2220	3.5	20
333	Complexation equilibria studies of alkyl formate hydrolysis in the presence of 1-butylimidazole. <i>Thermochimica Acta</i> , <b>2017</b> , 652, 62-68	2.9	2
332	Liquid Holdup by Gravimetric Recirculation Continuous Measurement Method. Application to Trickle Bed Reactors under Pressure at Laboratory Scale. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 13294-13300	3.9	5
331	Bromide and Acids: A Comprehensive Study on Their Role on the Hydrogen Peroxide Direct Synthesis. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 13367-13378	3.9	23

330	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. <i>Journal of Catalysis</i> , <b>2017</b> , 353, 223-238	7.3	22
329	3. Reaction intensification by microwave and ultrasound techniques in chemical multiphase systems <b>2017</b> , 111-142		2
328	First, second and nth order autocatalytic kinetics in continuous and discontinuous reactors. <i>Chemical Engineering Science</i> , <b>2017</b> , 172, 453-462	4.4	2
327	Application of an Extended Shrinking Film Model to Limestone Dissolution. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 13254-13261	3.9	4
326	Physical modeling of the laboratory-scale packed bed reactor for partial gas-phase oxidation of alcohol using gold nanoparticles as the heterogeneous catalyst. <i>Chemical Engineering Research and Design</i> , <b>2017</b> , 117, 448-459	5.5	3
325	Application of film theory on the reactions of solid particles with liquids: Shrinking particles with changing liquid films. <i>Chemical Engineering Science</i> , <b>2017</b> , 160, 161-170	4.4	7
324	Influence of gas-liquid mass transfer on kinetic modeling: Carbonation of epoxidized vegetable oils. <i>Chemical Engineering Journal</i> , <b>2017</b> , 313, 1168-1183	14.7	23
323	Process Synthesis and Process Intensification <b>2017</b> ,		2
322	Ionic liquid mediated technology for synthesis of cellulose acetates using different co-solvents. <i>Carbohydrate Polymers</i> , <b>2016</b> , 135, 341-8	10.3	41
321	Acid hydrolysis of xylan. <i>Catalysis Today</i> , <b>2016</b> , 259, 376-380	5.3	50
320	Sugar hydrogenation in continuous reactors: From catalyst particles towards structured catalysts. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2016</b> , 109, 1-10	3.7	3
319	Kinetics of the One-Pot Transformation of Citronellal to Menthols on Ru/H-BEA Catalysts. <i>Organic Process Research and Development</i> , <b>2016</b> , 20, 1647-1653	3.9	13
318	Modeling of the catalytic deoxygenation of fatty acids in a packed bed reactor <b>2016</b> , 365-376		1
317	Review on hydrodynamics and mass transfer in minichannel wall reactors with gas-liquid Taylor flow. <i>Chemical Engineering Research and Design</i> , <b>2016</b> , 113, 304-329	5.5	86
316	Crystallization of Nano-Calcium Carbonate: The Influence of Process Parameters. <i>Chemie-Ingenieur-Technik</i> , <b>2016</b> , 88, 1609-1616	0.8	3
315	Mass Transfer and Catalytic Reactions <b>2016</b> , 589-664		
314	Kinetic Modeling <b>2016</b> , 665-721		
313	Dynamic Catalysis <b>2016</b> , 497-587		

312	Mass & energy balances coupling in chemical reactors for a better understanding of thermal safety. <i>Education for Chemical Engineers</i> , <b>2016</b> , 16, 17-28	2.4	11
311	Cooling and stirring failure for semi-batch reactor: Application to exothermic reactions in multiphase reactor. <i>Journal of Loss Prevention in the Process Industries</i> , <b>2016</b> , 43, 147-157	3.5	16
310	Continuous H <sub>2</sub> O <sub>2</sub> direct synthesis process: an analysis of the process conditions that make the difference. <i>Green Processing and Synthesis</i> , <b>2016</b> , 5,	3.9	3
309	Is selective hydrogenation of molecular oxygen to H <sub>2</sub> O <sub>2</sub> affected by strong metal-support interactions on Pd/TiO <sub>2</sub> catalysts? A case study using commercially available TiO <sub>2</sub> . <i>Comptes Rendus Chimie</i> , <b>2016</b> , 19, 1011-1020	2.7	2
308	Kinetic modeling strategy for an exothermic multiphase reactor system: Application to vegetable oils epoxidation using Prileschajew method. <i>AIChE Journal</i> , <b>2016</b> , 62, 726-741	3.6	54
307	Epoxidation of oleic acid under conventional heating and microwave radiation. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2016</b> , 102, 70-87	3.7	40
306	Mathematical modeling of starch oxidation by hydrogen peroxide in the presence of an iron catalyst complex. <i>Chemical Engineering Science</i> , <b>2016</b> , 146, 19-25	4.4	7
305	Acid hydrolysis of O-acetyl-galactoglucomannan in a continuous tube reactor: a new approach to sugar monomer production. <i>Holzforschung</i> , <b>2016</b> , 70, 187-194	2	14
304	Aqueous extraction of hemicelluloses from spruce--From hot to warm. <i>Bioresource Technology</i> , <b>2016</b> , 199, 279-282	11	21
303	Revisiting the dissolution kinetics of limestone [Experimental analysis and modeling. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2016</b> , 91, 1517-1531	3.5	10
302	Hydrogen peroxide obtained via direct synthesis as alternative raw material for ultrapurification process to produce electronic grade chemical. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2016</b> , 91, 1136-1148	3.5	6
301	Influence of Metal Precursors and Reduction Protocols on the Chloride-Free Preparation of Catalysts for the Direct Synthesis of Hydrogen Peroxide without Selectivity Enhancers. <i>ChemCatChem</i> , <b>2016</b> , 8, 1564-1574	5.2	6
300	Maldistribution susceptibility of monolith reactors: Case study of glucose hydrogenation performance. <i>AIChE Journal</i> , <b>2016</b> , 62, 4346-4364	3.6	17
299	Heterogeneously catalyzed conversion of nordic pulp to levulinic and formic acids. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , <b>2016</b> , 119, 415-427	1.6	11
298	Comparative Study of Reactive Flash Distillation vs Semibatch Reactor Technologies for the Glycerol Hydrochlorination with Gaseous HCl. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 5500-5513	3.9	1
297	Advanced millireactor technology for the kinetic investigation of very rapid reactions: Dehydrochlorination of 1,3-dichloro-2-propanol to epichlorohydrin. <i>Chemical Engineering Science</i> , <b>2016</b> , 149, 35-41	4.4	6
296	The use of modelling to understand the mechanism of hydrogen peroxide direct synthesis from batch, semibatch and continuous reactor points of view. <i>Reaction Chemistry and Engineering</i> , <b>2016</b> , 1, 300-312	4.9	8
295	Dynamic modelling of homogeneously catalysed glycerol hydrochlorination in bubble column reactor. <i>Chemical Engineering Science</i> , <b>2016</b> , 149, 277-295	4.4	5



294	Application of the Catalyst Wet Pretreatment Method (CWPM) for catalytic direct synthesis of H <sub>2</sub> O <sub>2</sub> . <i>Catalysis Today</i> , <b>2015</b> , 246, 207-215	5.3	11
293	Direct synthesis of H <sub>2</sub> O <sub>2</sub> over Pd supported on rare earths promoted zirconia. <i>Catalysis Today</i> , <b>2015</b> , 256, 294-301	5.3	14
292	Hemicellulose arabinogalactan hydrolytic hydrogenation over Ru-modified H-USY zeolites. <i>Journal of Catalysis</i> , <b>2015</b> , 330, 93-105	7.3	26
291	Biomass to value added chemicals: Isomerisation of pinene oxide over supported ionic liquid catalysts (SILCAs) containing Lewis acids. <i>Catalysis Today</i> , <b>2015</b> , 257, 318-321	5.3	16
290	Kinetics of ethanol hydrochlorination over Al <sub>2</sub> O <sub>3</sub> in a microstructured reactor. <i>Chemical Engineering Science</i> , <b>2015</b> , 134, 681-693	4.4	4
289	Dynamic non-isothermal trickle bed reactor with both internal diffusion and heat conduction: Sugar hydrogenation as a case study. <i>Chemical Engineering Research and Design</i> , <b>2015</b> , 102, 171-185	5.5	18
288	Influence of two different alcohols in the esterification of fatty acids over layered zinc stearate/palmitate. <i>Bioresource Technology</i> , <b>2015</b> , 193, 337-44	11	16
287	Combination of Reaction and Separation in Heterogeneous Catalytic Hydrogenation of Ethylformate. <i>Chemical Engineering and Technology</i> , <b>2015</b> , 38, 804-812	2	3
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285	Esterification of fatty acids with ethanol over layered zinc laurate and zinc stearate [Kinetic modeling. <i>Fuel</i> , <b>2015</b> , 153, 445-454	7.1	21
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283	Lignin isolation from spruce wood with low concentration aqueous alkali at high temperature and pressure: influence of hot-water pre-extraction. <i>Green Chemistry</i> , <b>2015</b> , 17, 5058-5068	10	15
282	Modeling of microreactors for ethylene epoxidation and total oxidation. <i>Chemical Engineering Science</i> , <b>2015</b> , 134, 563-571	4.4	22
281	Carbonation of Vegetable Oils: Influence of Mass Transfer on Reaction Kinetics. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 10935-10944	3.9	18
280	Factors Influencing Hydrogenation and Decomposition of H <sub>2</sub> O <sub>2</sub> Over Pd/Au Catalysts Supported on Activated Carbon Cloth (ACC). <i>Topics in Catalysis</i> , <b>2015</b> , 58, 1019-1035	2.3	
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277	Structure sensitivity in catalytic hydrogenation of glucose over ruthenium. <i>Catalysis Today</i> , <b>2015</b> , 241, 195-199	5.3	43

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272	Promotional effects of Au in Pd/Au bimetallic catalysts supported on activated carbon cloth (ACC) for direct synthesis of H <sub>2</sub> O <sub>2</sub> from H <sub>2</sub> and O <sub>2</sub> . <i>Catalysis Today</i> , <b>2015</b> , 248, 58-68	5:3	19
271	Continuous hydrogenation of glucose with ruthenium on carbon nanotube catalysts. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 953-959	5:5	24
270	Continuous liquid-phase valorization of bio-ethanol towards bio-butanol over metal modified alumina. <i>Renewable Energy</i> , <b>2015</b> , 74, 369-378	8:1	38
269	Arabinogalactan hydrolysis and hydrolytic hydrogenation using functionalized carbon materials. <i>Catalysis Today</i> , <b>2015</b> , 257, 169-176	5:3	19
268	7. Design and modeling of laboratory scale three-phase fixed bed reactors <b>2015</b> , 283-332		
267	Selective hydrogenation of fatty acids to alcohols over highly dispersed ReO <sub>3</sub> /TiO <sub>2</sub> catalyst. <i>Journal of Catalysis</i> , <b>2015</b> , 328, 197-207	7:3	48
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261	Aqueous-phase reforming of xylitol over Pt/C and Pt/TiC-CDC catalysts: catalyst characterization and catalytic performance. <i>Catalysis Science and Technology</i> , <b>2014</b> , 4, 387-401	5:5	44
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259	Engineering in direct synthesis of hydrogen peroxide: targets, reactors and guidelines for operational conditions. <i>Green Chemistry</i> , <b>2014</b> , 16, 2320	10	101

258	Esterification of Fatty Acids and Short-Chain Carboxylic Acids with Stearyl Alcohol and Sterols. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2014</b> , 2, 537-545	8.3	7
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16	Kinetics of toluene hydrogenation on a supported nickel catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1993</b> , 32, 34-42	3.9	57
15	Kinetic model for the synthesis of chlorocarboxylic acids. <i>Chemical Engineering Science</i> , <b>1993</b> , 48, 735-754	4.4	8
14	Kinetics of toluene hydrogenation on Ni/Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Chemical Engineering Science</i> , <b>1993</b> , 48, 3813-3828	4.4	35
13	Selective synthesis of .alpha.-chlorocarboxylic acids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1992</b> , 31, 2425-2437	3.9	14
12	Deactivation of the high-temperature water-gas shift catalyst in nonisothermal conditions. <i>Applied Catalysis A: General</i> , <b>1992</b> , 87, 185-203	5.1	22
11	Development and verification of a simulation model for a non-isothermal water-gas shift reactor. <i>The Chemical Engineering Journal</i> , <b>1992</b> , 48, 17-29		23
10	The effect of reaction kinetics, mass transfer and flow pattern on non-catalytic and homogeneously catalyzed gas-liquid reactions in bubble columns. <i>Chemical Engineering Science</i> , <b>1992</b> , 47, 2493-2498	4.4	9
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