

Hero Jan Heeres

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302 papers	15,269 citations	66 h-index	113 g-index
319 ext. papers	17,255 ext. citations	6.8 avg, IF	6.99 L-index

#	Paper	IF	Citations
302	Hydroxymethylfurfural, a versatile platform chemical made from renewable resources. <i>Chemical Reviews</i> , 2013 , 113, 1499-597	68.1	1935
301	Hydrotreatment of Fast Pyrolysis Oil Using Heterogeneous Noble-Metal Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 10324-10334	3.9	461
300	Kinetic Study on the Acid-Catalyzed Hydrolysis of Cellulose to Levulinic Acid. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 1696-1708	3.9	395
299	Green Chemicals. <i>Chemical Engineering Research and Design</i> , 2006 , 84, 339-349	5.5	384
298	Formation, molecular structure, and morphology of humins in biomass conversion: influence of feedstock and processing conditions. <i>ChemSusChem</i> , 2013 , 6, 1745-58	8.3	380
297	Caprolactam from renewable resources: catalytic conversion of 5-hydroxymethylfurfural into caprolactone. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 7083-7	16.4	337
296	Stabilization of biomass-derived pyrolysis oils. <i>Journal of Chemical Technology and Biotechnology</i> , 2010 , 85, 674-686	3.5	336
295	A kinetic study on the decomposition of 5-hydroxymethylfurfural into levulinic acid. <i>Green Chemistry</i> , 2006 , 8, 701	10	329
294	Hydrodynamics and mass transfer characteristics in gas-liquid flow through a rectangular microchannel. <i>Chemical Engineering Science</i> , 2007 , 62, 2096-2108	4.4	316
293	Combined dehydration/(transfer)-hydrogenation of C6-sugars (D-glucose and D-fructose) to 5-hydroxymethylfurfural using ruthenium catalysts. <i>Green Chemistry</i> , 2009 , 11, 1247	10	239
292	Experimental and kinetic modelling studies on the acid-catalysed hydrolysis of the water hyacinth plant to levulinic acid. <i>Bioresource Technology</i> , 2008 , 99, 8367-75	11	183
291	Catalytic hydrotreatment of fast-pyrolysis oil using non-sulfided bimetallic Ni-Cu catalysts on a Al_2O_3 support. <i>Applied Catalysis B: Environmental</i> , 2012 , 117-118, 105-117	21.8	163
290	Green Chemicals from d-glucose: Systematic Studies on Catalytic Effects of Inorganic Salts on the Chemo-Selectivity and Yield in Aqueous Solutions. <i>Topics in Catalysis</i> , 2010 , 53, 1241-1247	2.3	153
289	Catalyst studies on the hydrotreatment of fast pyrolysis oil. <i>Applied Catalysis B: Environmental</i> , 2010 , 99, 298-306	21.8	152
288	Chiral separation by enantioselective liquid-liquid extraction. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 36-51	3.9	150
287	An efficient one pot conversion of glycerol to lactic acid using bimetallic gold-platinum catalysts on a nanocrystalline CeO_2 support. <i>Applied Catalysis B: Environmental</i> , 2014 , 147, 92-100	21.8	144
286	Pyrolysis of wheat straw-derived organosolv lignin. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012 , 93, 95-103	6	142

285	Insights in the hydrotreatment of fast pyrolysis oil using a ruthenium on carbon catalyst. <i>Energy and Environmental Science</i> , 2010 , 3, 962	35.4	137
284	Catalytic oligomerization of terminal alkynes by lanthanide carbyls ($\eta^5\text{-C}_5\text{Me}_5\text{)}_2\text{LnCH(SiMe}_3\text{)}_2$ (Ln = Y, La, Ce). <i>Organometallics</i> , 1991 , 10, 1980-1986	3.8	133
283	Tunable and selective conversion of 5-HMF to 2,5-furandimethanol and 2,5-dimethylfuran over copper-doped porous metal oxides. <i>ChemSusChem</i> , 2014 , 7, 2266-75	8.3	132
282	An experimental study of air-water Taylor flow and mass transfer inside square microchannels. <i>Chemical Engineering Science</i> , 2009 , 64, 3697-3708	4.4	125
281	Identification of components in fast pyrolysis oil and upgraded products by comprehensive two-dimensional gas chromatography and flame ionisation detection. <i>Journal of Chromatography A</i> , 2007 , 1150, 21-7	4.5	123
280	Water absorption, retention and the swelling characteristics of cassava starch grafted with polyacrylic acid. <i>Carbohydrate Polymers</i> , 2014 , 103, 325-32	10.3	112
279	Solvent free depolymerization of Kraft lignin to alkyl-phenolics using supported NiMo and CoMo catalysts. <i>Green Chemistry</i> , 2015 , 17, 4921-4930	10	111
278	Hydrotreatment of wood-based pyrolysis oil using zirconia-supported mono- and bimetallic (Pt, Pd, Rh) catalysts. <i>Applied Catalysis A: General</i> , 2011 , 407, 56-66	5.1	111
277	Bis(pentamethylcyclopentadienyl) complexes of cerium(III). Crystal structure of $(\text{C}_5\text{Me}_5)_2\text{CeCH(SiMe}_3\text{)}_2$. <i>Organometallics</i> , 1988 , 7, 2495-2502	3.8	106
276	Mono(pentamethylcyclopentadienyl) complexes of cerium(III). Synthesis, molecular structure, thermal stability, and reactivity of $(\text{C}_5\text{Me}_5)\text{CeX}_2$ (X = 2,6-di-tert-butylphenoxy, $\text{CH(SiMe}_3\text{)}_2$, and $\text{N(SiMe}_3\text{)}_2$) complexes. <i>Organometallics</i> , 1989 , 8, 2637-2646	3.8	105
275	Multiphase flow processing in microreactors combined with heterogeneous catalysis for efficient and sustainable chemical synthesis. <i>Catalysis Today</i> , 2018 , 308, 3-19	5.3	104
274	Process intensification in the future production of base chemicals from biomass. <i>Chemical Engineering and Processing: Process Intensification</i> , 2012 , 51, 117-136	3.7	104
273	Catalytic hydrotreatment of fast pyrolysis oil using bimetallic NiCu catalysts on various supports. <i>Applied Catalysis A: General</i> , 2012 , 449, 121-130	5.1	103
272	Recovery of acetic acid from an aqueous pyrolysis oil phase by reactive extraction using tri-n-octylamine. <i>Chemical Engineering Journal</i> , 2011 , 176-177, 244-252	14.7	103
271	Integration of Microreactors with Spectroscopic Detection for Online Reaction Monitoring and Catalyst Characterization. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 14583-14609	3.9	102
270	Biomass to Fuels. <i>Chemical Engineering Research and Design</i> , 2007 , 85, 466-472	5.5	102
269	Experimental and Kinetic Modeling Studies on the Sulfuric Acid Catalyzed Conversion of d-Fructose to 5-Hydroxymethylfurfural and Levulinic Acid in Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 3024-3034	8.3	96
268	In situ catalytic pyrolysis of lignocellulose using alkali-modified amorphous silica alumina. <i>Bioresource Technology</i> , 2012 , 118, 374-81	11	96

- 267 Experimental and kinetic modeling studies on the biphasic hydrogenation of levulinic acid to γ -valerolactone using a homogeneous water-soluble Ru(η^5 -PPTS) catalyst. *Journal of Molecular Catalysis A*, **2011**, 341, 14-21 95
- 266 Efficient catalytic hydrotreatment of Kraft lignin to alkylphenolics using supported NiW and NiMo catalysts in supercritical methanol. *Green Chemistry*, **2015**, 17, 5046-5057 10 94
- 265 Catalytic conversion of dihydroxyacetone to lactic acid using metal salts in water. *ChemSusChem*, **2011**, 4, 768-77 8.3 94
- 264 Identification and classification of components in flash pyrolysis oil and hydrodeoxygenated oils by two-dimensional gas chromatography and time-of-flight mass spectrometry. *Journal of Chromatography A*, **2008**, 1188, 17-25 4.5 93
- 263 Monomeric bis(pentamethylcyclopentadienyl)titanium(III) complexes with halide, borohydride, amide, alkoxide, and carboxylate ligands. X-ray structure of bis(pentamethylcyclopentadienyl)titanium(III) chloride. *Organometallics*, **1987**, 6, 1004-1010 3.8 93
- 262 Reversible carbon-carbon bond formation in organolanthanide systems. Preparation and properties of lanthanide acetylides $[\text{Cp}^*\text{2LnC}\equiv\text{CR}]_n$ and their rearrangement products $[\text{Cp}^*\text{2Ln}]_2(\mu-\eta^2-\eta^2\text{-RC4R})$ (Ln = La, Ce; R = alkyl). *Organometallics*, **1993**, 12, 2609-2617 3.8 91
- 261 Catalytic hydrodeoxygenation and hydrocracking of Alcell \square lignin in alcohol/formic acid mixtures using a Ru/C catalyst. *Biomass and Bioenergy*, **2015**, 80, 147-161 5.3 90
- 260 From 5-Hydroxymethylfurfural (HMF) to Polymer Precursors: Catalyst Screening Studies on the Conversion of 1,2,6-hexanetriol to 1,6-hexanediol. *Topics in Catalysis*, **2012**, 55, 612-619 2.3 90
- 259 Catalytic Hydrotreatment of Alcell Lignin Using Supported Ru, Pd, and Cu Catalysts. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 1905-1914 8.3 89
- 258 Equilibrium Studies on Enantioselective Liquid-Liquid Amino Acid Extraction Using a Cinchona Alkaloid Extractant. *Industrial & Engineering Chemistry Research*, **2008**, 47, 10027-10033 3.9 87
- 257 Copper-zinc alloy nanopowder: a robust precious-metal-free catalyst for the conversion of 5-hydroxymethylfurfural. *ChemSusChem*, **2015**, 8, 1323-7 8.3 84
- 256 Characterization of Hydrotreated Fast Pyrolysis Liquids. *Energy & Fuels*, **2010**, 24, 5264-5272 4.1 84
- 255 Competition between hydrotreating and polymerization reactions during pyrolysis oil hydrodeoxygenation. *AIChE Journal*, **2011**, 57, 3160-3170 3.6 80
- 254 Catalytic hydrotreatment of fast pyrolysis oil: Model studies on reaction pathways for the carbohydrate fraction. *Environmental Progress and Sustainable Energy*, **2009**, 28, 450-460 2.5 80
- 253 Micro-pyrolysis of technical lignins in a new modular rig and product analysis by GC/MS/FID and GC \square GC/OFMS/FID. *Journal of Analytical and Applied Pyrolysis*, **2009**, 85, 38-46 6 79
- 252 Experimental and modeling studies on the enantio-separation of 3,5-dinitrobenzoyl-(R),(S)-leucine by continuous liquid-liquid extraction in a cascade of centrifugal contactor separators. *Chemical Engineering Science*, **2010**, 65, 4682-4690 4.4 79
- 251 Synthesis and reactivity of tervalent paramagnetic titanium compounds $(\eta^5\text{-C5Me5})_2\text{TiR}$: molecular structure of $(\eta^5\text{-C5Me5})_2\text{TiCH}_2\text{CMe}_3$. *Organometallics*, **1991**, 10, 3227-3237 3.8 79
- 250 On the synthesis of monopentamethylcyclopentadienyl derivatives of yttrium, lanthanum, and cerium. *Journal of Organometallic Chemistry*, **1989**, 364, 79-86 2.3 78

249	Continuous Chiral Separation of Amino Acid Derivatives by Enantioselective Liquid-Liquid Extraction in Centrifugal Contactor Separators. <i>Organic Process Research and Development</i> , 2008 , 12, 950-955	3.9	75
248	Hydrogenation of Levulinic Acid to γ -Valerolactone in Water Using Millimeter Sized Supported Ru Catalysts in a Packed Bed Reactor. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 2939-2950	8.3	73
247	Catalytic hydrotreatment of pyrolytic lignins to give alkylphenolics and aromatics using a supported Ru catalyst. <i>Catalysis Science and Technology</i> , 2014 , 4, 2367-2377	5.5	72
246	Dehydration of different ketoses and aldoses to 5-hydroxymethylfurfural. <i>ChemSusChem</i> , 2013 , 6, 1681-1688	8.3	71
245	Biomass valorisation by staged degasification: A new pyrolysis-based thermochemical conversion option to produce value-added chemicals from lignocellulosic biomass. <i>Journal of Analytical and Applied Pyrolysis</i> , 2009 , 85, 124-133	6	71
244	Acetic Acid Recovery from Fast Pyrolysis Oil. An Exploratory Study on Liquid-Liquid Reactive Extraction using Aliphatic Tertiary Amines. <i>Separation Science and Technology</i> , 2008 , 43, 3056-3074	2.5	69
243	Ring-opening of γ -Valerolactone with amino compounds. <i>Journal of Applied Polymer Science</i> , 2012 , 123, 3556-3564	2.9	68
242	The Catalytic Conversion of d-Glucose to 5-Hydroxymethylfurfural in DMSO Using Metal Salts. <i>Topics in Catalysis</i> , 2012 , 55, 543-549	2.3	68
241	Caprolactam from Renewable Resources: Catalytic Conversion of 5-Hydroxymethylfurfural into Caprolactone. <i>Angewandte Chemie</i> , 2011 , 123, 7221-7225	3.6	68
240	Reforming of methanol and glycerol in supercritical water. <i>Journal of Supercritical Fluids</i> , 2011 , 58, 99-113	4.2	68
239	Continuous synthesis of 5-hydroxymethylfurfural from glucose using a combination of $AlCl_3$ and HCl as catalyst in a biphasic slug flow capillary microreactor. <i>Chemical Engineering Journal</i> , 2020 , 381, 122754	14.7	68
238	Scalable Enantioseparation of Amino Acid Derivatives Using Continuous Liquid-Liquid Extraction in a Cascade of Centrifugal Contactor Separators. <i>Organic Process Research and Development</i> , 2009 , 13, 911-914	3.9	67
237	Hydrogenation of fast pyrolysis oil and model compounds in a two-phase aqueous organic system using homogeneous ruthenium catalysts. <i>Journal of Molecular Catalysis A</i> , 2007 , 264, 227-236		66
236	The application of fine TiO_2 particles for enhanced gas absorption. <i>Chemical Engineering Journal</i> , 2003 , 92, 151-159	14.7	65
235	Glycerol reforming in supercritical water; a short review. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 23, 40-48	16.2	64
234	Lactic Acid Extraction and Mass Transfer Characteristics in Slug Flow Capillary Microreactors. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 4691-4702	3.9	63
233	Methanol synthesis beyond chemical equilibrium. <i>Chemical Engineering Science</i> , 2013 , 87, 204-208	4.4	62
232	Valorisation of <i>Jatropha curcas</i> L. plant parts: Nut shell conversion to fast pyrolysis oil. <i>Food and Bioproducts Processing</i> , 2009 , 87, 187-196	4.9	62

- 231 Organolanthanide-catalyzed cyclodimerizations of disubstituted alkynes. *Organometallics*, **1990**, 9, 1508-1510 62
- 230 Experimental studies on the pyrolysis of humins from the acid-catalysed dehydration of C6-sugars. *Journal of Analytical and Applied Pyrolysis*, **2013**, 104, 299-307 6 61
- 229 Recent advances in hydrothermal carbonisation: from tailored carbon materials and biochemicals to applications and bioenergy. *Green Chemistry*, **2020**, 22, 4747-4800 10 58
- 228 Catalyst studies on the ring opening of tetrahydrofuran dimethanol to 1,2,6-hexanetriol. *Catalysis Today*, **2013**, 210, 106-116 5.3 58
- 227 Synthesis of Higher Fatty Acid Starch Esters using Vinyl Laurate and Stearate as Reactants. *Starch/Staerke*, **2008**, 60, 667-675 2.3 58
- 226 Kinetic modeling of levulinic acid hydrogenation to γ -valerolactone in water using a carbon supported Ru catalyst. *Applied Catalysis A: General*, **2016**, 525, 158-167 5.1 58
- 225 Hydrodynamics and mass transfer of gas-liquid flow in a falling film microreactor. *AIChE Journal*, **2009**, 55, 1110-1120 3.6 57
- 224 An efficient magnetic carbon-based solid acid treatment for corn cob saccharification with high selectivity for xylose and enhanced enzymatic digestibility. *Green Chemistry*, **2019**, 21, 1292-1304 10 54
- 223 Graft copolymerization of acrylic acid to cassava starch--evaluation of the influences of process parameters by an experimental design method. *Carbohydrate Polymers*, **2012**, 90, 1522-9 10.3 54
- 222 Hydrogenation of levulinic acid to γ -valerolactone over anatase-supported Ru catalysts: Effect of catalyst synthesis protocols on activity. *Applied Catalysis A: General*, **2018**, 549, 197-206 5.1 53
- 221 Catalytic pyrolysis of crude glycerol over shaped ZSM-5/bentonite catalysts for bio-BTX synthesis. *Applied Catalysis B: Environmental*, **2018**, 235, 45-55 21.8 53
- 220 Kinetic studies on the *Rhizomucor miehei* lipase catalyzed esterification reaction of oleic acid with 1-butanol in a biphasic system. *Biochemical Engineering Journal*, **2008**, 41, 87-94 4.2 53
- 219 Optimization of mechanical oil extraction from *Jatropha curcas* L. kernel using response surface method. *Industrial Crops and Products*, **2015**, 63, 294-302 5.9 52
- 218 Ni-Based Catalysts for the Hydrotreatment of Fast Pyrolysis Oil. *Energy & Fuels*, **2016**, 30, 1544-1554 4.1 52
- 217 Biobased chemicals from the catalytic depolymerization of Kraft lignin using supported noble metal-based catalysts. *Fuel Processing Technology*, **2018**, 179, 143-153 7.2 52
- 216 Novel highly integrated biodiesel production technology in a centrifugal contactor separator device. *Chemical Engineering Journal*, **2009**, 154, 384-389 14.7 51
- 215 CH Activation of Acetonitrile by Alkyl Compounds of the Early Lanthanoids: Dimeric Cyanomethyl-Lanthanoid Complexes with CH₂CN Bridges. *Angewandte Chemie International Edition in English*, **1990**, 29, 420-422 49
- 214 Experimental and Kinetic Modeling Studies on the Conversion of Sucrose to Levulinic Acid and 5-Hydroxymethylfurfural Using Sulfuric Acid in Water. *Industrial & Engineering Chemistry Research*, **2017**, 56, 13228-13239 3.9 47

213	Effect of a potassium promoter on the Fischer-Tropsch synthesis of light olefins over iron carbide catalysts encapsulated in graphene-like carbon. <i>Catalysis Science and Technology</i> , 2019 , 9, 2728-2741	5.5	45
212	Full, Reactive Solubilization of Humin Byproducts by Alkaline Treatment and Characterization of the Alkali-Treated Humins Formed. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 533-543	8.3	45
211	Highly active, recyclable catalyst for the manufacture of viscous, low molecular weight, CO ₂ -ethylene-propene-based polyketone, base component for a new class of resins. <i>Inorganica Chimica Acta</i> , 2002 , 327, 147-159	2.7	45
210	Catalytic Transformation of Biomass Derivatives to Value-Added Chemicals and Fuels in Continuous Flow Microreactors. <i>ChemCatChem</i> , 2019 , 11, 4671-4708	5.2	44
209	Biobased alkylphenols from lignins via a two-step pyrolysis - Hydrodeoxygenation approach. <i>Bioresource Technology</i> , 2017 , 229, 160-168	11	42
208	Supercritical carbon dioxide (scCO ₂) induced gelatinization of potato starch. <i>Carbohydrate Polymers</i> , 2009 , 78, 511-519	10.3	40
207	Monocyclopentadienyl yttrium chemistry: incorporation of alkoxides as supporting ligands and synthesis of [Y(C ₅ Me ₅)(OC ₆ H ₃ But ₂)(η -H)] ₂ . <i>Journal of the Chemical Society Chemical Communications</i> , 1991 , 642-644		40
206	Catalytic pyrolysis of recalcitrant, insoluble humin byproducts from C6 sugar biorefineries. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017 , 123, 134-143	6	39
205	Stabilization of Self-Assembled Alumina Mesophases. <i>Chemistry of Materials</i> , 2013 , 25, 848-855	9.6	39
204	Hydrodynamic features of centrifugal contactor separators: Experimental studies on liquid hold-up, residence time distribution, phase behavior and drop size distributions. <i>Chemical Engineering and Processing: Process Intensification</i> , 2012 , 55, 8-19	3.7	38
203	Hydrotreatment of pyrolytic lignins to aromatics and phenolics using heterogeneous catalysts. <i>Fuel Processing Technology</i> , 2019 , 189, 28-38	7.2	37
202	Sugarcane bagasse ex-situ catalytic fast pyrolysis for the production of Benzene, Toluene and Xylenes (BTX). <i>Journal of Analytical and Applied Pyrolysis</i> , 2018 , 131, 1-8	6	37
201	Base-free, one-pot chemocatalytic conversion of glycerol to methyl lactate using supported gold catalysts. <i>ChemSusChem</i> , 2014 , 7, 1140-7	8.3	37
200	Enantioselective liquid-liquid extraction of (R,S)-phenylglycinol using a bisnaphthyl phosphoric acid derivative as chiral extractant. <i>Tetrahedron</i> , 2011 , 67, 462-470	2.4	36
199	Selective fructose dehydration to 5-hydroxymethylfurfural from a fructose-glucose mixture over a sulfuric acid catalyst in a biphasic system: Experimental study and kinetic modelling. <i>Chemical Engineering Journal</i> , 2021 , 409, 128182	14.7	36
198	Insight into the hydrogenation of pure and crude HMF to furan diols using Ru/C as catalyst. <i>Applied Catalysis A: General</i> , 2019 , 578, 122-133	5.1	35
197	Process intensification of catalytic liquid-liquid solid processes: Continuous biodiesel production using an immobilized lipase in a centrifugal contactor separator. <i>Chemical Engineering Journal</i> , 2017 , 321, 76-85	14.7	34
196	Catalytic upgrading of sugar fractions from pyrolysis oils in supercritical mono-alcohols over Cu doped porous metal oxide. <i>Applied Catalysis B: Environmental</i> , 2015 , 166-167, 56-65	21.8	34

195	Mechanical extraction of oil from <i>Jatropha curcas</i> L. kernel: Effect of processing parameters. <i>Industrial Crops and Products</i> , 2015 , 63, 303-310	5.9	34
194	Preparation and properties of binderless boards from <i>Jatropha curcas</i> L. seed cake. <i>Industrial Crops and Products</i> , 2014 , 52, 245-254	5.9	34
193	Characterization of Physic nut (<i>Jatropha curcas</i> L.) shells. <i>Biomass and Bioenergy</i> , 2012 , 37, 177-187	5.3	34
192	Extraction of <i>Jatropha curcas</i> proteins and application in polyketone-based wood adhesives. <i>International Journal of Adhesion and Adhesives</i> , 2010 , 30, 615-625	3.4	34
191	Synthesis of fatty acid starch esters in supercritical carbon dioxide. <i>Carbohydrate Polymers</i> , 2010 , 82, 346-354	10.3	34
190	Two-phase (bio)catalytic reactions in a table-top centrifugal contact separator. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 3905-8	16.4	34
189	Catalytic Hydrotreatment of Humins in Mixtures of Formic Acid/2-Propanol with Supported Ruthenium Catalysts. <i>ChemSusChem</i> , 2016 , 9, 951-61	8.3	33
188	A metal-ligand cooperative pathway for intermolecular oxa-Michael additions to unsaturated nitriles. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4236-40	16.4	33
187	Organolanthanide-induced carbon-carbon bond formation. Preparation and properties of monomeric lanthanide aldolates and enolates. <i>Organometallics</i> , 1992 , 11, 350-356	3.8	33
186	Biodiesel synthesis from <i>Jatropha curcas</i> L. oil and ethanol in a continuous centrifugal contactor separator. <i>European Journal of Lipid Science and Technology</i> , 2013 , 115, 123-131	3	32
185	Alkene isomerisation catalysed by a ruthenium PNN pincer complex. <i>Chemistry - A European Journal</i> , 2014 , 20, 15434-42	4.8	32
184	Synthesis of cationic cerium compounds [Cp* ₂ Ce(L) ₂][BPh ₄] (L = tetrahydrofuran or tetrahydrothiophene) and the crystal structure of the tetrahydrothiophene derivative. <i>Journal of Organometallic Chemistry</i> , 1991 , 414, 351-359	2.3	32
183	Selective conversion of polyenes to monoenes by RuCl ₃ -catalyzed transfer hydrogenation: the case of cashew nutshell liquid. <i>ChemSusChem</i> , 2012 , 5, 2427-34	8.3	31
182	Modeling and Experimental Studies on Phase and Chemical Equilibria in High-Pressure Methanol Synthesis. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 12233-12243	3.9	31
181	Catalytic hydrotreatment of Alcell lignin fractions using a Ru/C catalyst. <i>Catalysis Science and Technology</i> , 2016 , 6, 7053-7067	5.5	30
180	Synthesis of poly-(β)-caprolactone grafted starch co-polymers by ring-opening polymerisation using silylated starch precursors. <i>Carbohydrate Polymers</i> , 2009 , 77, 267-275	10.3	30
179	Experimental Studies on the Carboxymethylation of Arrowroot Starch in Isopropanol-Water Media. <i>Starch/Staerke</i> , 2003 , 55, 495-503	2.3	30
178	Catalytic hydrotreatment of fast pyrolysis liquids in batch and continuous set-ups using a bimetallic Ni/Cu catalyst with a high metal content. <i>Catalysis Science and Technology</i> , 2016 , 6, 5899-5915	5.5	30

177	Hydrotreatment of Kraft Lignin to Alkylphenolics and Aromatics Using Ni, Mo, and W Phosphides Supported on Activated Carbon. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 2044-2055	8.3	30
176	Green starch conversions: Studies on starch acetylation in densified CO ₂ . <i>Carbohydrate Polymers</i> , 2010 , 82, 653-662	10.3	29
175	Kinetic Studies on the Asymmetric Transfer Hydrogenation of Acetophenone Using a Homogeneous Ruthenium Catalyst with a Chiral Amino-Alcohol Ligand. <i>Organic Process Research and Development</i> , 2006 , 10, 423-429	3.9	29
174	Optimization of Biodiesel Production over Chicken Eggshell-Derived CaO Catalyst in a Continuous Centrifugal Contactor Separator. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 12742-12753	3.9	29
173	The application of water-soluble ruthenium catalysts for the hydrogenation of the dichloromethane soluble fraction of fast pyrolysis oil and related model compounds in a two phase aqueous-organic system. <i>Journal of Molecular Catalysis A</i> , 2007 , 277, 127-136		28
172	Growth phase significantly decreases the DHA-to-EPA ratio in marine microalgae. <i>Aquaculture International</i> , 2017 , 25, 577-587	2.6	27
171	Synthesis of Bio-aromatics from Black Liquors Using Catalytic Pyrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 3472-3480	8.3	26
170	Ruthenium/1,1'-Bis(diphenylphosphino)ferrocene-Catalysed Oppenauer Oxidation of Alcohols and Lactonisation of β -Diols using Methyl Isobutyl Ketone as Oxidant. <i>Advanced Synthesis and Catalysis</i> , 2013 , 355, 2839-2844	5.6	26
169	Experimental Studies on the Hydrotreatment of Kraft Lignin to Aromatics and Alkylphenolics Using Economically Viable Fe-Based Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2668-2678	8.3	25
168	Experimental and Modeling Studies on the Solubility of d-Arabinose, d-Fructose, d-Glucose, d-Mannose, Sucrose and d-Xylose in Methanol and Methanol-Water Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 8285-8290	3.9	25
167	Environmental economics of lignin derived transport fuels. <i>Bioresource Technology</i> , 2017 , 243, 589-599	11	25
166	Experimental and Modeling Studies on the Synthesis and Properties of Higher Fatty Esters of Corn Starch. <i>Starch/Staerke</i> , 2009 , 61, 69-80	2.3	25
165	Mono-, bi-, and tri-metallic Ni-based catalysts for the catalytic hydrotreatment of pyrolysis liquids. <i>Biomass Conversion and Biorefinery</i> , 2017 , 7, 361-376	2.3	24
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18	Gas/Liquid Slug Flow Studies in Microreactors: Effect of Nanoparticle Addition on Flow Pattern and Pressure Drop. <i>Frontiers in Chemical Engineering</i> , 2022 , 3,	1	1
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16	Optimization of operational and design parameters of a Simultaneous Mixer-Separator for enhanced continuous biodiesel production. <i>Chemical Product and Process Modeling</i> , 2021 , 16, 155-167	1.1	1

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14	Iron Tetrasulfonatophthalocyanine-Catalyzed Starch Oxidation Using HO: Interplay between Catalyst Activity, Selectivity, and Stability. <i>ACS Omega</i> , 2021 , 6, 13847-13857	3.9	1
13	Catalytic conversion of furfural extract from lubricating oil extraction unit over the shaped and promoted HY catalysts to valuable petroleum products. <i>Catalysis Communications</i> , 2020 , 134, 105834	3.2	1
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11	Bio-Based Aromatic Polyesters Reversibly Crosslinked via the Diels-Alder Reaction. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 2461	2.6	1
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3	Catalytic Hydrotreatment of Humins in Mixtures of Formic Acid/2-Propanol with Supported Ruthenium Catalysts. <i>ChemSusChem</i> , 2016 , 9, 902-902	8.3	
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