

# Anders Riisager

## List of Publications by Citations

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195  
papers

8,718  
citations

51  
h-index

89  
g-index

214  
ext. papers

9,715  
ext. citations

6.3  
avg, IF

6.49  
L-index

#	Paper	IF	Citations
195	Supported Ionic Liquid Phase (SILP) Catalysis: An Innovative Concept for Homogeneous Catalysis in Continuous Fixed-Bed Reactors. <i>European Journal of Inorganic Chemistry</i> , <b>2006</b> , 2006, 695-706	2.3	291
194	Hydroformylation in room temperature ionic liquids (RTILs): catalyst and process developments. <i>Chemical Reviews</i> , <b>2008</b> , 108, 1474-97	68.1	290
193	Gold-catalyzed aerobic oxidation of 5-hydroxymethylfurfural in water at ambient temperature. <i>ChemSusChem</i> , <b>2009</b> , 2, 672-5	8.3	258
192	Very stable and highly regioselective supported ionic-liquid-phase (SILP) catalysis: continuous-flow fixed-bed hydroformylation of propene. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 815-9	16.4	252
191	Continuous fixed-bed gas-phase hydroformylation using supported ionic liquid-phase (SILP) Rh catalysts. <i>Journal of Catalysis</i> , <b>2003</b> , 219, 452-455	7.3	231
190	Reversible physical absorption of SO <sub>2</sub> by ionic liquids. <i>Chemical Communications</i> , <b>2006</b> , 4027-9	5.8	226
189	Synthesis of 5-(hydroxymethyl)furfural in ionic liquids: paving the way to renewable chemicals. <i>ChemSusChem</i> , <b>2011</b> , 4, 451-8	8.3	211
188	Sn-Beta catalysed conversion of hemicellulosic sugars. <i>Green Chemistry</i> , <b>2012</b> , 14, 702	10	197
187	Formation of acetic acid by aqueous-phase oxidation of ethanol with air in the presence of a heterogeneous gold catalyst. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 4648-51	16.4	197
186	Carbon-Increasing Catalytic Strategies for Upgrading Biomass into Energy-Intensive Fuels and Chemicals. <i>ACS Catalysis</i> , <b>2018</b> , 8, 148-187	13.1	188
185	Direct conversion of glucose to 5-(hydroxymethyl)furfural in ionic liquids with lanthanide catalysts. <i>Green Chemistry</i> , <b>2010</b> , 12, 321	10	167
184	Metal-free dehydration of glucose to 5-(hydroxymethyl)furfural in ionic liquids with boric acid as a promoter. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 1456-64	4.8	162
183	Tuning ionic liquids for high gas solubility and reversible gas sorption. <i>Journal of Molecular Catalysis A</i> , <b>2008</b> , 279, 170-176		160
182	Efficient isomerization of glucose to fructose over zeolites in consecutive reactions in alcohol and aqueous media. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 5246-9	16.4	159
181	Deactivation of solid catalysts in liquid media: the case of leaching of active sites in biomass conversion reactions. <i>Green Chemistry</i> , <b>2015</b> , 17, 4133-4145	10	152
180	Solid acid catalysed formation of ethyl levulinate and ethyl glucopyranoside from mono- and disaccharides. <i>Catalysis Communications</i> , <b>2012</b> , 17, 71-75	3.2	143
179	Process integration for the conversion of glucose to 2,5-furandicarboxylic acid. <i>Chemical Engineering Research and Design</i> , <b>2009</b> , 87, 1318-1327	5.5	143

178	One-pot reduction of 5-hydroxymethylfurfural via hydrogen transfer from supercritical methanol. <i>Green Chemistry</i> , <b>2012</b> , 14, 2457	10	142
177	Synergy of boric acid and added salts in the catalytic dehydration of hexoses to 5-hydroxymethylfurfural in water. <i>Green Chemistry</i> , <b>2011</b> , 13, 109-114	10	140
176	Conversion of mono- and disaccharides to ethyl levulinate and ethyl pyranoside with sulfonic acid-functionalized ionic liquids. <i>ChemSusChem</i> , <b>2011</b> , 4, 723-6	8.3	139
175	Propene and 1-Octene Hydroformylation with Silica-Supported, Ionic Liquid-Phase (SILP) Rh-Phosphine Catalysts in Continuous Fixed-Bed Mode. <i>Catalysis Letters</i> , <b>2003</b> , 90, 149-153	2.8	139
174	Efficient microwave-assisted synthesis of 5-hydroxymethylfurfural from concentrated aqueous fructose. <i>Carbohydrate Research</i> , <b>2009</b> , 344, 2568-72	2.9	129
173	Hydrodeoxygenation of waste fat for diesel production: Study on model feed with Pt/alumina catalyst. <i>Fuel</i> , <b>2011</b> , 90, 3433-3438	7.1	126
172	Catalytic Performance of Zeolite-Supported Vanadia in the Aerobic Oxidation of 5-hydroxymethylfurfural to 2,5-diformylfuran. <i>ChemCatChem</i> , <b>2013</b> , 5, 284-293	5.2	125
171	Amine-functionalized amino acid-based ionic liquids as efficient and high-capacity absorbents for CO(2). <i>ChemSusChem</i> , <b>2014</b> , 7, 897-902	8.3	124
170	Direct transformation of carbohydrates to the biofuel 5-ethoxymethylfurfural by solid acid catalysts. <i>Green Chemistry</i> , <b>2016</b> , 18, 726-734	10	121
169	First application of supported ionic liquid phase (SILP) catalysis for continuous methanol carbonylation. <i>Chemical Communications</i> , <b>2006</b> , 994-6	5.8	120
168	Stability and Kinetic Studies of Supported Ionic Liquid Phase Catalysts for Hydroformylation of Propene. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2005</b> , 44, 9853-9859	3.9	120
167	AcidBase Bifunctional Zirconium N-Alkyltriphosphate Nanohybrid for Hydrogen Transfer of Biomass-Derived Carboxides. <i>ACS Catalysis</i> , <b>2016</b> , 6, 7722-7727	13.1	114
166	Formation of imines by selective gold-catalysed aerobic oxidative coupling of alcohols and amines under ambient conditions. <i>Green Chemistry</i> , <b>2010</b> , 12, 1437	10	113
165	Zeolite and zeotype-catalysed transformations of biofuranic compounds. <i>Green Chemistry</i> , <b>2016</b> , 18, 5701-5735	10	113
164	Zeolite Catalyzed Transformation of Carbohydrates to Alkyl Levulinates. <i>ChemCatChem</i> , <b>2013</b> , 5, 1754-1757	5.7	105
163	Glucose Isomerization by Enzymes and Chemo-catalysts: Status and Current Advances. <i>ACS Catalysis</i> , <b>2017</b> , 7, 3010-3029	13.1	101
162	Continuous Gas-Phase Hydroformylation of 1-Butene using Supported Ionic Liquid Phase (SILP) Catalysts. <i>Advanced Synthesis and Catalysis</i> , <b>2007</b> , 349, 425-431	5.6	101
161	Cu catalyzed oxidation of 5-hydroxymethylfurfural to 2,5-diformylfuran and 2,5-furandicarboxylic acid under benign reaction conditions. <i>Applied Catalysis A: General</i> , <b>2013</b> , 456, 44-50	5.1	98

160	Effect of Support in Heterogeneous Ruthenium Catalysts Used for the Selective Aerobic Oxidation of HMF in Water. <i>Topics in Catalysis</i> , <b>2011</b> , 54, 1318-1324	2.3	97
159	Copper oxide as efficient catalyst for oxidative dehydrogenation of alcohols with air. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 2467-2477	5.5	88
158	One-pot synthesis of amides by aerobic oxidative coupling of alcohols or aldehydes with amines using supported gold and base as catalysts. <i>Chemical Communications</i> , <b>2012</b> , 48, 2427-9	5.8	86
157	Pharmaceutically active ionic liquids with solids handling, enhanced thermal stability, and fast release. <i>Chemical Communications</i> , <b>2012</b> , 48, 5422-4	5.8	86
156	Selective Aerobic Oxidation of 5-Hydroxymethylfurfural in Water Over Solid Ruthenium Hydroxide Catalysts with Magnesium-Based Supports. <i>Catalysis Letters</i> , <b>2011</b> , 141, 1752-1760	2.8	79
155	Depolymerization of organosolv lignin using doped porous metal oxides in supercritical methanol. <i>Bioresource Technology</i> , <b>2014</b> , 161, 78-83	11	76
154	Alkali resistant Cu/zeolite deNO <sub>x</sub> catalysts for flue gas cleaning in biomass fired applications. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 101, 183-188	21.8	70
153	High performance vanadia–niobate nanoparticle catalysts for the Selective Catalytic Reduction of NO by ammonia. <i>Journal of Catalysis</i> , <b>2011</b> , 284, 60-67	7.3	69
152	Catalytic Transfer Hydrogenation of Furfural to Furfuryl Alcohol with Recyclable Al <sub>2</sub> Zr@Fe Mixed Oxides. <i>ChemCatChem</i> , <b>2018</b> , 10, 430-438	5.2	68
151	Ketene as a Reaction Intermediate in the Carbonylation of Dimethyl Ether to Methyl Acetate over Mordenite. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 7261-4	16.4	64
150	One-pot transformation of polysaccharides via multi-catalytic processes. <i>Catalysis Science and Technology</i> , <b>2014</b> , 4, 4138-4168	5.5	61
149	Magnetic nickel ferrite nanoparticles as highly durable catalysts for catalytic transfer hydrogenation of bio-based aldehydes. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 790-797	5.5	59
148	Catalytic Transfer Hydrogenation of Bio-Based Furfural with NiO Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 17220-17229	8.3	59
147	Direct catalytic transformation of carbohydrates into 5-ethoxymethylfurfural with acid–base bifunctional hybrid nanospheres. <i>Energy Conversion and Management</i> , <b>2014</b> , 88, 1245-1251	10.6	58
146	Acetalization of furfural with zeolites under benign reaction conditions. <i>Catalysis Today</i> , <b>2014</b> , 234, 233-236	3.5	54
145	CTAB micelles and the hydroformylation of octene with rhodium/TPPTS catalysts: Evidence for the interaction of TPPTS with micelle surfaces. <i>Journal of Molecular Catalysis A</i> , <b>2002</b> , 189, 195-202		54
144	Heteropoly acid promoted V <sub>2</sub> O <sub>5</sub> /TiO <sub>2</sub> catalysts for NO abatement with ammonia in alkali containing flue gases. <i>Catalysis Science and Technology</i> , <b>2011</b> , 1, 631	5.5	51
143	A Pd-Catalyzed in situ domino process for mild and quantitative production of 2,5-dimethylfuran directly from carbohydrates. <i>Green Chemistry</i> , <b>2017</b> , 19, 2101-2106	10	49

142	Langzeitstabile und hoch regioselektive Supported-Ionic-Liquid-Phase(SILP)Katalysatoren: Kontinuierliche Hydroformylierung von Propen im Festbettreaktor. <i>Angewandte Chemie</i> , <b>2005</b> , 117, 826-830	3.6	49
141	Tin-containing silicates: identification of a glycolytic pathway via 3-deoxyglucosone. <i>Green Chemistry</i> , <b>2016</b> , 18, 3360-3369	10	46
140	Formation of Acetic Acid by Aqueous-Phase Oxidation of Ethanol with Air in the Presence of a Heterogeneous Gold Catalyst. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 4764-4767	3.6	41
139	Efficient Aerobic Oxidation of 5-Hydroxymethylfurfural in Aqueous Media with AuPd Supported on Zinc Hydroxycarbonate. <i>ChemCatChem</i> , <b>2016</b> , 8, 3636-3643	5.2	40
138	Atomically thin Pt shells on Au nanoparticle cores: facile synthesis and efficient synergetic catalysis. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 3278-3286	13	40
137	Aerobic Oxidation of 5-(Hydroxymethyl)furfural in Ionic Liquids with Solid Ruthenium Hydroxide Catalysts. <i>Catalysis Letters</i> , <b>2012</b> , 142, 1089-1097	2.8	40
136	Catalytic Alkylation of 2-Methylfuran with Formalin Using Supported Acidic Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 3274-3280	8.3	38
135	Gas-Phase Oxidation of Aqueous Ethanol by Nanoparticle Vanadia/Anatase Catalysts. <i>Topics in Catalysis</i> , <b>2009</b> , 52, 253-257	2.3	37
134	Fifteen Years of Supported Ionic Liquid Phase-Catalyzed Hydroformylation: Material and Process Developments. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 2409-2420	3.9	37
133	CO2 Capture technologies: Current status and new directions using supported ionic liquid phase (SILP) absorbers. <i>Science China Chemistry</i> , <b>2012</b> , 55, 1648-1656	7.9	36
132	Reaction mechanism of dimethyl ether carbonylation to methyl acetate over mordenite [a] combined DFT/experimental study. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 1141-1152	5.5	35
131	New synthetic approaches to biofuels from lignocellulosic biomass. <i>Current Opinion in Green and Sustainable Chemistry</i> , <b>2020</b> , 21, 16-21	7.9	35
130	Oxidative Depolymerization of Kraft Lignin for Microbial Conversion. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 11640-11652	8.3	34
129	Sustainable access to renewable N-containing chemicals from reductive amination of biomass-derived platform compounds. <i>Green Chemistry</i> , <b>2020</b> , 22, 6714-6747	10	34
128	Heteropoly acid promoted Cu and Fe catalysts for the selective catalytic reduction of NO with ammonia. <i>Catalysis Today</i> , <b>2011</b> , 176, 292-297	5.3	33
127	Thermomorphic phase separation in ionic liquid-organic liquid systems--conductivity and spectroscopic characterization. <i>Physical Chemistry Chemical Physics</i> , <b>2005</b> , 7, 3052-8	3.6	33
126	Pd-catalyzed ethylene methoxycarbonylation with Brønsted acid ionic liquids as promoter and phase-separable reaction media. <i>Green Chemistry</i> , <b>2014</b> , 16, 161-166	10	32
125	Acetic Acid Formation by Selective Aerobic Oxidation of Aqueous Ethanol over Heterogeneous Ruthenium Catalysts. <i>ACS Catalysis</i> , <b>2012</b> , 2, 604-612	13.1	32

- 124 Xylose isomerization with zeolites in a two-step alcohol-water process. *ChemSusChem*, **2015**, 8, 1088-94 8.3 31
- 123 Hierarchically constructed NiO with improved performance for catalytic transfer hydrogenation of biomass-derived aldehydes. *Catalysis Science and Technology*, **2019**, 9, 1289-1300 5.5 30
- 122 Giant Tunability of the Two-Dimensional Electron Gas at the Interface of  $\text{BaO}/\text{SrTiO}_3$ . *Nano Letters*, **2017**, 17, 6878-6885 11.5 29
- 121 Vanadia supported on zeolites for SCR of NO by ammonia. *Applied Catalysis B: Environmental*, **2010**, 97, 333-339 21.8 29
- 120 Formation of an ion-pair molecule with a single  $\text{NH}^+\cdots\text{Cl}^-$  hydrogen bond: Raman spectra of 1,1,3,3-tetramethylguanidinium chloride in the solid state, in solution, and in the vapor phase. *Journal of Physical Chemistry A*, **2008**, 112, 8585-92 2.8 29
- 119 Characterization and parametrical study of Rh-TPPTS supported ionic liquid phase (SILP) catalysts for ethylene hydroformylation. *Catalysis Communications*, **2012**, 25, 136-141 3.2 28
- 118 Crystal structure, vibrational spectroscopy and ab initio density functional theory calculations on the ionic liquid forming 1,1,3,3-tetramethylguanidinium bis((trifluoromethyl)sulfonyl)amide. *Journal of Physical Chemistry B*, **2009**, 113, 8878-86 3.4 27
- 117 Propene hydroformylation by supported aqueous-phase Rh-NORBOS catalysts. *Journal of Molecular Catalysis A*, **2003**, 193, 259-272 27
- 116 Recent advances in heterogeneous catalytic transfer hydrogenation/hydrogenolysis for valorization of biomass-derived furanic compounds. *Green Chemistry*, **2021**, 23, 670-688 10 27
- 115 Combined Function of Brønsted and Lewis Acidity in the Zeolite-Catalyzed Isomerization of Glucose to Fructose in Alcohols. *ChemCatChem*, **2016**, 8, 3107-3111 5.2 26
- 114 Revisiting the Brønsted acid catalysed hydrolysis kinetics of polymeric carbohydrates in ionic liquids by in situ ATR-FTIR spectroscopy. *Green Chemistry*, **2013**, 15, 2843 10 26
- 113 Alternative alkali resistant deNO<sub>x</sub> catalysts. *Catalysis Today*, **2012**, 184, 192-196 5.3 26
- 112 Control of selectivity in hydrosilane-promoted heterogeneous palladium-catalysed reduction of furfural and aromatic carboxides. *Communications Chemistry*, **2018**, 1, 6.3 25
- 111 Synergy Effects of the Mixture of Bismuth Molybdate Catalysts with  $\text{SnO}_2/\text{ZrO}_2/\text{MgO}$  in Selective Propene Oxidation and the Connection between Conductivity and Catalytic Activity. *Industrial & Engineering Chemistry Research*, **2016**, 55, 4846-4855 3.9 25
- 110 Kinetic analysis of hexose conversion to methyl lactate by Sn-Beta: effects of substrate masking and of water. *Catalysis Science and Technology*, **2018**, 8, 2137-2145 5.5 24
- 109 Zeolite-catalyzed isomerization of tetroses in aqueous medium. *Catalysis Science and Technology*, **2014**, 4, 3186 5.5 24
- 108 The Effect of Acidic and Redox Properties of  $\text{V}_2\text{O}_5/\text{CeO}_2/\text{ZrO}_2$  Catalysts in Selective Catalytic Reduction of NO by  $\text{NH}_3$ . *Catalysis Letters*, **2009**, 133, 370-375 2.8 24
- 107 An alternative pathway for production of acetonitrile: ruthenium catalysed aerobic dehydrogenation of ethylamine. *Green Chemistry*, **2013**, 15, 928 10 23

106	Highly Selective Aerobic Oxidation of 5-Hydroxymethyl Furfural into 2,5-Diformylfuran over MnO <sub>2</sub> Binary Oxides. <i>ChemistrySelect</i> , <b>2017</b> , 2, 6632-6639	1.8	22
105	Highly Efficient Rh-catalysts Immobilised by H <sub>2</sub> O Stacking for the Asymmetric Hydroformylation of Norbornene under Continuous Flow Conditions. <i>ChemCatChem</i> , <b>2019</b> , 11, 2195-2205	5.2	21
104	Silver nanoparticles supported on alumina--a highly efficient and selective nanocatalyst for imine reduction. <i>Dalton Transactions</i> , <b>2014</b> , 43, 4255-9	4.3	21
103	Noble metal-free upgrading of multi-unsaturated biomass derivatives at room temperature: silyl species enable reactivity. <i>Green Chemistry</i> , <b>2018</b> , 20, 5327-5335	10	21
102	Absorption and Oxidation of Nitrogen Oxide in Ionic Liquids. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 11745-55	4.8	20
101	Enzymatic isomerization of glucose and xylose in ionic liquids. <i>Catalysis Science and Technology</i> , <b>2012</b> , 2, 291-295	5.5	20
100	MnOx/P25 with tuned surface structures of anatase-rutile phase for aerobic oxidation of 5-hydroxymethylfurfural into 2,5-diformylfuran. <i>Catalysis Today</i> , <b>2019</b> , 319, 105-112	5.3	19
99	Alkali Resistant Fe-Zeolite Catalysts for SCR of NO with NH <sub>3</sub> in Flue Gases. <i>Topics in Catalysis</i> , <b>2011</b> , 54, 1286-1292	2.3	19
98	Structural characterization of 1,1,3,3-tetramethylguanidinium chloride ionic liquid by reversible SO <sub>2</sub> gas absorption. <i>Journal of Physical Chemistry A</i> , <b>2013</b> , 117, 11364-73	2.8	18
97	Dependency of the hydrogen bonding capacity of the solvent anion on the thermal stability of feruloyl esterases in ionic liquid systems. <i>Green Chemistry</i> , <b>2011</b> , 13, 1550	10	18
96	Oxidative Depolymerisation of Lignosulphonate Lignin into Low-Molecular-Weight Products with Cu/Mn/Al <sub>2</sub> O <sub>3</sub> . <i>Topics in Catalysis</i> , <b>2019</b> , 62, 639-648	2.3	17
95	Aerobic Oxidation of Veratryl Alcohol to Veratraldehyde with Heterogeneous Ruthenium Catalysts. <i>Topics in Catalysis</i> , <b>2015</b> , 58, 1036-1042	2.3	17
94	Bristed Acid Ionic Liquids (BAILs) as Efficient and Recyclable Catalysts in the Conversion of Glycerol to Solketal at Room Temperature. <i>ChemistrySelect</i> , <b>2016</b> , 1, 5869-5873	1.8	17
93	Thermodynamically based solvent design for enzymatic saccharide acylation with hydroxycinnamic acids in non-conventional media. <i>New Biotechnology</i> , <b>2012</b> , 29, 255-70	6.4	16
92	Mechanistic investigation of the one-pot formation of amides by oxidative coupling of alcohols with amines in methanol. <i>Catalysis Today</i> , <b>2013</b> , 203, 211-216	5.3	16
91	Continuous gas-phase hydroformylation of but-1-ene in a membrane reactor by supported liquid-phase (SLP) catalysis. <i>Green Chemistry</i> , <b>2020</b> , 22, 5691-5700	10	16
90	Mechanism and stereoselectivity of zeolite-catalysed sugar isomerisation in alcohols. <i>Chemical Communications</i> , <b>2016</b> , 52, 12773-12776	5.8	16
89	Chemoselective Synthesis of Dithioacetals from Bio-aldehydes with Zeolites under Ambient and Solvent-free Conditions. <i>ChemCatChem</i> , <b>2017</b> , 9, 1097-1104	5.2	14

88	Brønsted acid ionic liquid catalyzed formation of pyruvaldehyde dimethylacetal from triose sugars. <i>Catalysis Today</i> , <b>2013</b> , 200, 94-98	5.3	13
87	Alkali resistivity of Cu based selective catalytic reduction catalysts: Potassium chloride aerosol exposure and activity measurements. <i>Catalysis Communications</i> , <b>2012</b> , 18, 41-46	3.2	13
86	Chemoselective hydrogenation of arenes by PVP supported Rh nanoparticles. <i>Dalton Transactions</i> , <b>2016</b> , 45, 19368-19373	4.3	12
85	Highly dispersed supported ruthenium oxide as an aerobic catalyst for acetic acid synthesis. <i>Applied Catalysis A: General</i> , <b>2012</b> , 433-434, 243-250	5.1	12
84	Facile and benign conversion of sucrose to fructose using zeolites with balanced Brønsted and Lewis acidity. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 2782-2788	5.5	11
83	Highly Selective Continuous Gas-Phase Methoxycarbonylation of Ethylene with Supported Ionic Liquid Phase (SILP) Catalysts. <i>ChemCatChem</i> , <b>2017</b> , 9, 1824-1829	5.2	10
82	Homogeneously-catalysed hydrogen release/storage using the 2-methylindole/2-methylindoline LOHC system in molten salt-organic biphasic reaction systems. <i>Chemical Communications</i> , <b>2019</b> , 55, 20462-20491	5.8	10
81	Supported Rh-phosphine complex catalysts for continuous gas-phase decarbonylation of aldehydes. <i>Dalton Transactions</i> , <b>2014</b> , 43, 17230-5	4.3	10
80	(Keynote) Separation of Flue Gas Components by SILP (Supported Ionic Liquid-Phase) Absorbers. <i>ECS Transactions</i> , <b>2013</b> , 50, 433-442	1	10
79	Flue Gas Cleaning With Alternative Processes and Reaction Media. <i>ECS Transactions</i> , <b>2006</b> , 3, 49-59	1	10
78	Elucidating the ionic liquid distribution in monolithic SILP hydroformylation catalysts by magnetic resonance imaging.. <i>RSC Advances</i> , <b>2020</b> , 10, 18487-18495	3.7	9
77	Synthesis of Nixantphos Core-Functionalized Amphiphilic Nanoreactors and Application to Rhodium-Catalyzed Aqueous Biphasic 1-Octene Hydroformylation. <i>Polymers</i> , <b>2020</b> , 12,	4.5	9
76	Ionic liquids as recyclable and separable reaction media in Rh-catalyzed decarbonylation of aromatic and aliphatic aldehydes. <i>RSC Advances</i> , <b>2014</b> , 4, 58151-58155	3.7	9
75	X-ray crystal structure, Raman spectroscopy, and Ab initio density functional theory calculations on 1,1,3,3-tetramethylguanidinium bromide. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 13175-81	2.8	9
74	Selective Oxidative Carbonylation of Aniline to Diphenylurea with Ionic Liquids. <i>ChemCatChem</i> , <b>2018</b> , 10, 2450-2457	5.2	8
73	Selective Hydrodeoxygenation of Alkyl Lactates to Alkyl Propionates with Fe-based Bimetallic Supported Catalysts. <i>ChemSusChem</i> , <b>2018</b> , 11, 681-687	8.3	8
72	Selective formation of formic acid from biomass-derived glycolaldehyde with supported ruthenium hydroxide catalysts. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 4384-4392	5.5	8
71	Improvement of trans-sialylation versus hydrolysis activity of an engineered sialidase from <i>Trypanosoma rangeli</i> by use of co-solvents. <i>Biotechnology Letters</i> , <b>2014</b> , 36, 1315-20	3	8

70	Catalytic SILP Materials. <i>Topics in Organometallic Chemistry</i> , <b>2006</b> , 149-161	0.6	8
69	Supported Ionic Liquid-Phase Catalysis for Heterogenization of Homogeneous Rhodium Phosphine Catalysts. <i>ACS Symposium Series</i> , <b>2005</b> , 334-349	0.4	8
68	Oxidative depolymerization of Kraft lignin to high-value aromatics using a homogeneous vanadium-copper catalyst. <i>Catalysis Science and Technology</i> , <b>2021</b> , 11, 1843-1853	5.5	8
67	NH <sub>3</sub> -SCR of NO with novel active, supported vanadium-containing Keggin-type heteropolyacid catalysts. <i>Reaction Chemistry and Engineering</i> , <b>2020</b> , 5, 935-948	4.9	7
66	Catalytic Tandem Reaction for the Production of Jet and Diesel Fuel Range Alkanes. <i>Energy Technology</i> , <b>2018</b> , 6, 1060-1066	3.5	7
65	Ru-Doped Wells-Dawson Polyoxometalate as Efficient Catalyst for Glycerol Hydrogenolysis to Propanediols. <i>Materials</i> , <b>2019</b> , 12,	3.5	7
64	Challenges and perspectives for catalysis in production of diesel from biomass. <i>Biofuels</i> , <b>2011</b> , 2, 465-483		7
63	Selective oxidation of propylene to acrolein by silica-supported bismuth molybdate catalysts. <i>Research on Chemical Intermediates</i> , <b>2011</b> , 37, 605-616	2.8	7
62	Seed-assisted sol-gel synthesis and characterization of nanoparticulate V <sub>2</sub> O <sub>5</sub> /anatase. <i>Journal of Materials Science</i> , <b>2009</b> , 44, 323-327	4.3	7
61	Ammonia borane enabled upgrading of biomass derivatives at room temperature. <i>Green Chemistry</i> , <b>2020</b> , 22, 5972-5977	10	7
60	Pd-catalysed formation of ester products from cascade reaction of 5-hydroxymethylfurfural with 1-hexene. <i>Applied Catalysis A: General</i> , <b>2019</b> , 569, 170-174	5.1	7
59	Efficient valorization of biomass-derived furfural to fuel bio-additive over aluminum phosphate. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 298, 120575	21.8	7
58	Mechanistic insights into the oxidative dehydrogenation of amines to nitriles in continuous flow. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 5008-5015	5.5	6
57	Solid Catalysts with Ionic Liquid Layer (SCILL) <b>2014</b> , 279-306		6
56	Ultralow Temperature Water-Gas Shift Reaction Enabled by Supported Ionic Liquid Phase Catalysts <b>2014</b> , 327-350		6
55	Synergy effects in mixed Bi <sub>2</sub> O <sub>3</sub> , MoO <sub>3</sub> and V <sub>2</sub> O <sub>5</sub> catalysts for selective oxidation of propylene. <i>Research on Chemical Intermediates</i> , <b>2012</b> , 38, 829-846	2.8	6
54	Ketene as a Reaction Intermediate in the Carbonylation of Dimethyl Ether to Methyl Acetate over Mordenite. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 7369-7372	3.6	6
53	Selective Gas Absorption by Ionic Liquids. <i>ECS Transactions</i> , <b>2010</b> , 33, 117-126	1	6

52	Exploring the Synthesis of Mesoporous Stannosilicates as Catalysts for the Conversion of Mono- and Oligosaccharides into Methyl Lactate. <i>Topics in Catalysis</i> , <b>2019</b> , 62, 628-638	2.3	5
51	Monolithic SiC supports with tailored hierarchical porosity for molecularly selective membranes and supported liquid-phase catalysis. <i>Catalysis Today</i> , <b>2020</b> , 383, 44-44	5.3	5
50	Hydrogenation with Nanoparticles Using Supported Ionic Liquids <b>2014</b> , 263-278		5
49	Synthetic Methodologies for Supported Ionic Liquid Materials <b>2014</b> , 75-94		5
48	Zwitterion enhanced performance in palladiumphosphine catalyzed ethylene methoxycarbonylation. <i>Catalysis Communications</i> , <b>2014</b> , 44, 73-75	3.2	5
47	Highly Selective Liquid-Phase Benzylolation of Anisole with Solid-Acid Zeolite Catalysts. <i>Topics in Catalysis</i> , <b>2015</b> , 58, 1053-1061	2.3	4
46	Advances in the synthesis and application of 2,5-furandicarboxylic acid <b>2020</b> , 135-170		4
45	Ionic Liquids at the GasLiquid and SolidLiquid Interface Characterization and Properties <b>2014</b> , 145-176		4
44	Synthesis and Characterization of Ammonium-, Pyridinium-, and Pyrrolidinium-Based Sulfonamido Functionalized Ionic Liquids. <i>Synthetic Communications</i> , <b>2012</b> , 42, 3383-3394	1.7	4
43	Magnesium and nickel(II) furan-2,5-dicarboxylate. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , <b>2011</b> , 67, m327-30		4
42	Organic Synthesis 265-568		4
41	Influence of gas impurities on the hydrogenation of CO <sub>2</sub> to methanol using indium-based catalysts. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 7309-7322	5.5	4
40	Uncharted Pathways for CrCl <sub>3</sub> Catalyzed Glucose Conversion in Aqueous Solution. <i>Topics in Catalysis</i> , <b>2019</b> , 62, 669-677	2.3	3
39	Selective Hydrogenation for Fine Chemical Synthesis <b>2014</b> , 251-262		3
38	Supported Ionic Liquid Phase (SILP) Materials in Hydroformylation Catalysis <b>2014</b> , 307-326		3
37	Improved Catalytic Transfer Hydrogenation of Biomass-Derived Aldehydes with Metal-Loaded Aluminum Phosphate. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2022</b> , 10, 1536-1543	8.3	3
36	Ru-Catalyzed Oxidative Cleavage of Guaiacyl Glycerol--Guaiacyl Ether-a Representative -O-4 Lignin Model Compound. <i>Catalysts</i> , <b>2019</b> , 9, 832	4	3
35	Response Factors Enable Rapid Quantitative 2D NMR Analysis in Catalytic Biomass Conversion to Renewable Chemicals. <i>Topics in Catalysis</i> , <b>2019</b> , 62, 590-598	2.3	3

34	Tailored monolith supports for improved ultra-low temperature water-gas shift reaction. <i>Reaction Chemistry and Engineering</i> , 2021, 11, 1-10	4.9	3
33	Biocatalytic Processes Based on Supported Ionic Liquids <b>2014</b> , 351-368		2
32	Supported Ionic Liquid Phase Catalysts with Supercritical Fluid Flow <b>2014</b> , 369-384		2
31	Supported Protic Ionic Liquids in Polymer Membranes for Electrolytes of Nonhumidified Fuel Cells <b>2014</b> , 407-418		2
30	A Priori Selection of the Type of Ionic Liquid <b>2014</b> , 191-208		2
29	Structural characterization and catalytic properties of bis(1,1,3,3-tetramethylguanidinium) dichromate. <i>Polyhedron</i> , <b>2011</b> , 30, 785-789	2.7	2
28	Ruthenium Dioxide Catalysts for the Selective Oxidation of Benzylamine to Benzonitrile: Investigating the Effect of Ruthenium Loading on Physical and Catalytic Properties. <i>Topics in Catalysis</i> , <b>2017</b> , 60, 1449-1461	2.3	2
27	Modification of commercial Y zeolites by alkaline-treatment for improved performance in the isomerization of glucose to fructose. <i>Molecular Catalysis</i> , <b>2021</b> , 510, 111686	3.3	2
26	Ce and Ca/Nb doped Pd-mesocellular foam catalysts for gas-phase conversion of acetone to methyl isobutyl ketone. <i>Microporous and Mesoporous Materials</i> , <b>2021</b> , 322, 111169	5.3	2
25	Pharmaceutically Active Supported Ionic Liquids <b>2014</b> , 385-406		1
24	Gas Separation Using Supported Ionic Liquids <b>2014</b> , 419-444		1
23	Outlook – The Technical Prospect of Supported Ionic Liquid Materials <b>2014</b> , 457-466		1
22	Introducing Ionic Liquids <b>2014</b> , 11-36		1
21	Spectroscopy on Supported Ionic Liquids <b>2014</b> , 177-190		1
20	SILP Technology – Novel Catalysts and Advanced Materials. <i>Chemie-Ingenieur-Technik</i> , <b>2008</b> , 80, 1247-1248	7.8	1
19	A Truly Homogeneous Catalyst in Heterogeneous Form – The Supported Ionic Liquid Phase (SILP) Catalyst Concept for Continuous, Gas-Phase Propene Hydroformylation. <i>Chemie-Ingenieur-Technik</i> , <b>2005</b> , 77, 1210-1210	0.8	1
18	Insights into Ammonia Borane-Enabled Green Synthesis of N-Substituted Lactams from Biomass-Derived Keto Acids and Amines. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 4377-4382	8.3	1
17	Catalytic Transesterification Routes to Novel Vinyl Glycolate Derivatives of Polyhydric Alcohols. <i>Catalysis Letters</i> , <b>2021</b> , 151, 8-16	2.8	1

16	Catalytic production of long-chain hydrocarbons suitable for jet-fuel use from fermentation-derived oxygenates. <i>Green Chemistry</i> ,	10	1
15	Coupling Reactions with Supported Ionic Liquid Catalysts <b>2014</b> , 233-250		0
14	Supported Ionic Liquids as Part of a Building-Block System for Tailored Catalysts <b>2014</b> , 209-232		0
13	The influence of supports on Rh-TPPTS supported ionic liquid-phase catalysts for the hydroformylation of ethylene**. <i>ChemistrySelect</i> , <b>2021</b> , 6, 9888-9893	1.8	0
12	Promoting Effect of Copper Loading and Mesoporosity on Cu-MOR in the Carbonylation of Dimethyl Ether to Methyl Acetate. <i>Catalysts</i> , <b>2021</b> , 11, 696	4	0
11	Sn-Beta Catalyzed Transformations of SugarsAdvances in Catalyst and Applications. <i>Catalysts</i> , <b>2022</b> , 12, 405	4	0
10	Rhodium Catalyzed Decarbonylation. <i>Topics in Organometallic Chemistry</i> , <b>2017</b> , 145-165	0.6	
9	Preface to 18th Nordic Symposium on Catalysis 2018. <i>Topics in Catalysis</i> , <b>2019</b> , 62, 589-589	2.3	
8	Introduction to Room-Temperature Catalysis <b>2018</b> , 1-34		
7	Ionic Liquids on Surfaces A Plethora of Applications <b>2014</b> , 445-456		
6	Porous Inorganic Materials as Potential Supports for Ionic Liquids <b>2014</b> , 37-74		
5	Pore Volume and Surface Area of Supported Ionic Liquids Systems <b>2014</b> , 95-104		
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2	Supported Liquid Catalysts <b>2008</b> , 631		
1	The influence of gas impurities on the performance of In <sub>2</sub> O <sub>3</sub> /ZrO <sub>2</sub> catalysts for CO <sub>2</sub> hydrogenation to methanol. <i>Chemie-Ingenieur-Technik</i> , <b>2020</b> , 92, 1354-1355	0.8	