

Andrea Kruse

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6298427/andrea-kruse-publications-by-citations.pdf>

Version: 2024-04-24

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.

150
papers

6,886
citations

45
h-index

79
g-index

154
ext. papers

7,911
ext. citations

5.6
avg, IF

6.72
L-index

#	Paper	IF	Citations
150	Supercritical water gasification. <i>Biofuels, Bioproducts and Biorefining</i> , 2008 , 2, 415-437	5.3	365
149	Hydrothermal conversion of biomass to fuels and energetic materials. <i>Current Opinion in Chemical Biology</i> , 2013 , 17, 515-21	9.7	325
148	Influence of the Heating Rate and the Type of Catalyst on the Formation of Key Intermediates and on the Generation of Gases During Hydrolysis of Glucose in Supercritical Water in a Batch Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 502-508	3.9	256
147	Hydrothermal biomass gasification. <i>Journal of Supercritical Fluids</i> , 2009 , 47, 391-399	4.2	254
146	Key Compounds of the Hydrolysis of Glucose in Supercritical Water in the Presence of K ₂ CO ₃ . <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 3516-3521	3.9	230
145	Chemical reactions of C(1) compounds in near-critical and supercritical water. <i>Chemical Reviews</i> , 2004 , 104, 5803-21	68.1	229
144	Gasification of Pyrocatechol in Supercritical Water in the Presence of Potassium Hydroxide. <i>Industrial & Engineering Chemistry Research</i> , 2000 , 39, 4842-4848	3.9	218
143	Influence of Proteins on the Hydrothermal Gasification and Liquefaction of Biomass. 2. Model Compounds. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 87-96	3.9	209
142	Water [A magic solvent for biomass conversion. <i>Journal of Supercritical Fluids</i> , 2015 , 96, 36-45	4.2	198
141	Supercritical water gasification of biomass for hydrogen production [Review. <i>Journal of Supercritical Fluids</i> , 2018 , 133, 573-590	4.2	194
140	Biomass gasification in supercritical water: II. Effect of catalyst. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 4520-4526	6.7	166
139	Influence of Proteins on the Hydrothermal Gasification and Liquefaction of Biomass. 1. Comparison of Different Feedstocks. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 3013-3020	3.9	164
138	Biomass gasification in supercritical water: Part 1. Effect of the nature of biomass. <i>Fuel</i> , 2007 , 86, 2410-2415	4.15	139
137	Polyethylene imine modified hydrochar adsorption for chromium (VI) and nickel (II) removal from aqueous solution. <i>Bioresource Technology</i> , 2018 , 247, 370-379	11	125
136	Economic analysis of sewage sludge gasification in supercritical water for hydrogen production. <i>Biomass and Bioenergy</i> , 2008 , 32, 1085-1096	5.3	117
135	Pretreatment technologies of lignocellulosic biomass in water in view of furfural and 5-hydroxymethylfurfural production- A review. <i>Biomass Conversion and Biorefinery</i> , 2017 , 7, 247-274	2.3	101
134	Effects of hydrochar application on the dynamics of soluble nitrogen in soils and on plant availability. <i>Journal of Plant Nutrition and Soil Science</i> , 2014 , 177, 48-58	2.3	97

133	Influence of the Carbonization Process on Activated Carbon Properties from Lignin and Lignin-Rich Biomasses. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 8222-8233	8.3	86
132	Cultivation of microalgae with recovered nutrients after hydrothermal liquefaction. <i>Algal Research</i> , 2015 , 9, 99-106	5	85
131	Assessing microalgae biorefinery routes for the production of biofuels via hydrothermal liquefaction. <i>Bioresource Technology</i> , 2014 , 174, 256-65	11	76
130	Modeling the Lignin Degradation Kinetics in an Ethanol/Formic Acid Solvolysis Approach. Part 1. Kinetic Model Development. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 10595-10606	3.9	76
129	Hydrothermal liquefaction of microalgae: Effect on the product yields of the addition of an organic solvent to separate the aqueous phase and the biocrude oil. <i>Algal Research</i> , 2015 , 12, 206-212	5	75
128	Hydrothermal gasification of biomass: consecutive reactions to long-living intermediates. <i>Energy and Environmental Science</i> , 2010 , 3, 136-143	35.4	72
127	Fate of Nitrogen during Hydrothermal Carbonization. <i>Energy & Fuels</i> , 2016 , 30, 8037-8042	4.1	71
126	Influence of the biomass components on the pore formation of activated carbon. <i>Biomass and Bioenergy</i> , 2017 , 97, 53-64	5.3	70
125	Experimental comparison of hydrothermal and vapothermal carbonization. <i>Fuel Processing Technology</i> , 2013 , 115, 261-269	7.2	67
124	Suitability of hydrothermal liquefaction as a conversion route to produce biofuels from macroalgae. <i>Algal Research</i> , 2015 , 11, 234-241	5	66
123	Gasification of sugarcane bagasse in supercritical water; evaluation of alkali catalysts for maximum hydrogen production. <i>Journal of the Energy Institute</i> , 2015 , 88, 450-458	5.7	65
122	Heterogeneous catalytic upgrading of biocrude oil produced by hydrothermal liquefaction of microalgae: State of the art and own experiments. <i>Fuel Processing Technology</i> , 2016 , 148, 117-127	7.2	65
121	One stage olive mill waste streams valorisation via hydrothermal carbonisation. <i>Waste Management</i> , 2018 , 80, 224-234	8.6	65
120	Hydrothermal conversion of seaweeds in a batch autoclave. <i>Journal of Supercritical Fluids</i> , 2011 , 58, 131-135	4.35	63
119	Influence of Salts During Hydrothermal Biomass Gasification: The Role of the Catalysed Water-Gas Shift Reaction. <i>Zeitschrift Fur Physikalische Chemie</i> , 2005 , 219, 341-366	3.1	62
118	Hydrothermal biomass conversion: Quo vadis?. <i>Journal of Supercritical Fluids</i> , 2018 , 134, 114-123	4.2	55
117	Evaluation of hydrothermal carbonization as a preliminary step for the production of functional materials from biogas digestate. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017 , 124, 461-474	6	54
116	The effect of different Brønsted acids on the hydrothermal conversion of fructose to HMF. <i>Green Chemistry</i> , 2018 , 20, 2231-2241	10	54

115	Hydrochar amendment promotes microbial immobilization of mineral nitrogen. <i>Journal of Plant Nutrition and Soil Science</i> , 2014 , 177, 59-67	2.3	53
114	Acidity and basicity of metal oxide catalysts for formaldehyde reaction in supercritical water at 673 K. <i>Applied Catalysis A: General</i> , 2003 , 245, 333-341	5.1	53
113	Influence of phenol on glucose degradation during supercritical water gasification. <i>Journal of Supercritical Fluids</i> , 2010 , 53, 42-47	4.2	50
112	Hydrothermal Carbonization of Fructose: Growth Mechanism and Kinetic Model. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 13877-13887	8.3	50
111	Oil formation from glucose with formic acid and cobalt catalyst in hot-compressed water. <i>Carbohydrate Research</i> , 2006 , 341, 2891-900	2.9	48
110	Mechanisms and modelling of phosphorus solid-liquid transformation during the hydrothermal processing of swine manure. <i>Green Chemistry</i> , 2020 , 22, 5628-5638	10	46
109	Effects of different biofilm carriers on biogas production during anaerobic digestion of corn straw. <i>Bioresource Technology</i> , 2017 , 244, 445-451	11	46
108	Low temperature supercritical water gasification of biomass constituents: Glucose/phenol mixtures. <i>Biomass and Bioenergy</i> , 2015 , 73, 84-94	5.3	46
107	Pyrolysis vs. hydrothermal carbonization: Understanding the effect of biomass structural components and inorganic compounds on the char properties. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019 , 140, 137-147	6	45
106	Hydrothermal Liquefaction of Microalgae in a Continuous Stirred-Tank Reactor. <i>Energy & Fuels</i> , 2015 , 29, 6422-6432	4.1	45
105	Properties and degradability of hydrothermal carbonization products. <i>Journal of Environmental Quality</i> , 2013 , 42, 1565-73	3.4	45
104	Influence of salts on the subcritical water-gas shift reaction. <i>Journal of Supercritical Fluids</i> , 2012 , 66, 207-214	2.14	43
103	Biomass gasification in supercritical and subcritical water: The effect of the reactor material. <i>Chemical Engineering Journal</i> , 2013 , 228, 535-544	14.7	43
102	Hydrogen from methane and supercritical water. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 909-11	16.4	43
101	Modeling the Lignin Degradation Kinetics in a Ethanol/Formic Acid Solvolysis Approach. Part 2. Validation and Transfer to Variable Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 15053-15063	3.9	42
100	Hydrothermal carbonization coupled with anaerobic digestion for the valorization of the organic fraction of municipal solid waste. <i>Bioresource Technology</i> , 2020 , 314, 123734	11	41
99	Comparison of the influence of a Lewis acid AlCl ₃ and a Brønsted acid HCl on the organosolv pulping of beech wood. <i>Green Chemistry</i> , 2014 , 16, 1569	10	40
98	Supercritical water gasification of organic acids and alcohols: The effect of chain length. <i>Journal of Supercritical Fluids</i> , 2013 , 74, 8-21	4.2	40

97	Effect of concrete carbonation on phosphate removal through adsorption process and its potential application as fertilizer. <i>Journal of Cleaner Production</i> , 2020 , 256, 120416	10.3	39
96	Biobased Functional Carbon Materials: Production, Characterization, and Applications-A Review. <i>Materials</i> , 2018 , 11,	3.5	39
95	Structural changes in microcrystalline cellulose in subcritical water treatment. <i>Biomacromolecules</i> , 2011 , 12, 2544-51	6.9	38
94	Catalytic hydrothermal conversion of cellulose over SnO ₂ and ZnO nanoparticle catalysts. <i>Journal of Supercritical Fluids</i> , 2011 , 56, 179-185	4.2	38
93	Adsorption and recovery of phosphate from aqueous solution by the construction and demolition wastes sludge and its potential use as phosphate-based fertiliser. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 103605	6.8	37
92	Hydrothermal carbonization of biogas digestate: Effect of digestate origin and process conditions. <i>Waste Management</i> , 2019 , 100, 138-150	8.6	36
91	Properties of Hydrochar as Function of Feedstock, Reaction Conditions and Post-Treatment. <i>Energies</i> , 2018 , 11, 674	3.1	36
90	Experimental and thermodynamic studies of phosphate behavior during the hydrothermal carbonization of sewage sludge. <i>Science of the Total Environment</i> , 2019 , 692, 147-156	10.2	36
89	Kinetic Modelling of Hydrothermal Lignin Depolymerisation. <i>Waste and Biomass Valorization</i> , 2014 , 5, 985-994	3.2	36
88	Phosphorus recovered from digestate by hydrothermal processes with struvite crystallization and its potential as a fertilizer. <i>Science of the Total Environment</i> , 2020 , 698, 134240	10.2	36
87	Sucrose Is a Promising Feedstock for the Synthesis of the Platform Chemical Hydroxymethylfurfural. <i>Energies</i> , 2018 , 11, 645	3.1	35
86	The swelling and dissolution of cellulose crystallites in subcritical and supercritical water. <i>Cellulose</i> , 2013 , 20, 2731-2744	5.5	33
85	Acid Hydrolysis of Lignocellulosic Biomass: Sugars and Furfurals Formation. <i>Catalysts</i> , 2020 , 10, 437	4	32
84	Supercritical water gasification of hydrochar. <i>Chemical Engineering Research and Design</i> , 2014 , 92, 1864-1875	5.5	32
83	Hydrothermale Karbonisierung: 2. Kinetik der Biertreber-Umwandlung. <i>Chemie-Ingenieur-Technik</i> , 2012 , 84, 509-512	0.8	32
82	Initial and subsequent effects of hydrochar amendment on germination and nitrogen uptake of spring barley. <i>Journal of Plant Nutrition and Soil Science</i> , 2014 , 177, 68-74	2.3	31
81	Influence of RANEY Nickel on the Formation of Intermediates in the Degradation of Lignin. <i>International Journal of Chemical Engineering</i> , 2012 , 2012, 1-8	2.2	30
80	Hydrothermal Carbonization Brewer's Spent Grains with the Focus on Improving the Degradation of the Feedstock. <i>Energies</i> , 2018 , 11, 3226	3.1	30

79	Wet and dry? Influence of hydrothermal carbonization on the pyrolysis of spent grains. <i>Journal of Cleaner Production</i> , 2020 , 260, 121101	10.3	27
78	Direct liquefaction of lignin and lignin rich biomasses by heterogenic catalytic hydrogenolysis. <i>Biomass and Bioenergy</i> , 2018 , 111, 352-360	5.3	27
77	Microwave digestion-assisted HFO/biochar adsorption to recover phosphorus from swine manure. <i>Science of the Total Environment</i> , 2018 , 621, 1512-1526	10.2	26
76	Supercritical Water Gasification of Biomass in a Ceramic Reactor: Long-Time Batch Experiments. <i>Energies</i> , 2017 , 10, 1734	3.1	25
75	Hydrothermal conversion of biomass and different model compounds. <i>Journal of Supercritical Fluids</i> , 2012 , 71, 80-85	4.2	25
74	Application of Algae as Cosubstrate To Enhance the Processability of Willow Wood for Continuous Hydrothermal Liquefaction. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 4562-4571	3.9	23
73	Study of the electrical conductivity of biobased carbonaceous powder materials under moderate pressure for the application as electrode materials in energy storage technologies. <i>GCB Bioenergy</i> , 2019 , 11, 230-248	5.6	23
72	Chemical Reactions in Supercritical Water - 1. Pyrolysis of tert.-Butylbenzene. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1996 , 100, 80-83		23
71	The use of dimethyl ether as an organic extraction solvent for biomass applications in future biorefineries: A user-oriented review. <i>Fuel</i> , 2019 , 254, 115703	7.1	22
70	Valorization of maize silage digestate from two-stage anaerobic digestion by hydrothermal carbonization. <i>Energy Conversion and Management</i> , 2020 , 222, 113218	10.6	22
69	Effect of protein during hydrothermal carbonization of brewer's spent grain. <i>Bioresource Technology</i> , 2019 , 293, 122117	11	21
68	Structural Effects of Cellulose on Hydrolysis and Carbonization Behavior during Hydrothermal Treatment. <i>ACS Omega</i> , 2020 , 5, 12210-12223	3.9	21
67	Towards the Properties of Different Biomass-Derived Proteins via Various Extraction Methods. <i>Molecules</i> , 2020 , 25,	4.8	21
66	Prediction of gaseous, liquid and solid mass yields from hydrothermal carbonization of biogas digestate by severity parameter. <i>Biomass Conversion and Biorefinery</i> , 2016 , 6, 151-160	2.3	19
65	Kinetic study on the impact of acidity and acid concentration on the formation of 5-hydroxymethylfurfural (HMF), humins, and levulinic acid in the hydrothermal conversion of fructose. <i>Biomass Conversion and Biorefinery</i> , 2019 , 11, 1155	2.3	18
64	Conductive Carbon Materials from the Hydrothermal Carbonization of Vineyard Residues for the Application in Electrochemical Double-Layer Capacitors (EDLCs) and Direct Carbon Fuel Cells (DCFCs). <i>Materials</i> , 2019 , 12,	3.5	18
63	Hydrothermale Karbonisierung: 1. Einfluss des Lignins in Lignocellulosen. <i>Chemie-Ingenieur-Technik</i> , 2011 , 83, 1734-1741	0.8	18
62	The use of process simulation in supercritical fluids applications. <i>Reaction Chemistry and Engineering</i> , 2020 , 5, 424-451	4.9	17

61	Hydrothermal disproportionation of formaldehyde at subcritical conditions. <i>Journal of Supercritical Fluids</i> , 2013 , 73, 43-50	4.2	17
60	Pyrolysis Kinetics of Hydrochars Produced from Brewer's Spent Grains. <i>Catalysts</i> , 2019 , 9, 625	4	16
59	Hydrothermal carbonization of dry toilet residues as an added-value strategy - Investigation of process parameters. <i>Journal of Environmental Management</i> , 2019 , 234, 537-545	7.9	16
58	Understanding the influence of biomass particle size and reaction medium on the formation pathways of hydrochar. <i>Biomass Conversion and Biorefinery</i> , 2020 , 10, 1357-1380	2.3	16
57	Steam Explosion Conditions Highly Influence the Biogas Yield of Rice Straw. <i>Molecules</i> , 2019 , 24,	4.8	15
56	Porous carbons derived from hydrothermally treated biogas digestate. <i>Waste Management</i> , 2020 , 105, 170-179	8.6	15
55	Hydrothermal carbonization of wheat straw - prediction of product mass yields and degree of carbonization by severity parameter. <i>Biomass Conversion and Biorefinery</i> , 2016 , 6, 347-354	2.3	15
54	Influence of the pH Value on the Hydrothermal Degradation of Fructose. <i>ChemistryOpen</i> , 2019 , 8, 1109-1120	1.3	15
53	Hydrothermal Carbonization of Biomass 2015 , 325-352		15
52	Wastewater treatment - adsorption of organic micropollutants on activated HTC-carbon derived from sewage sludge. <i>Water Science and Technology</i> , 2016 , 73, 607-16	2.2	15
51	Investigation of the textural and adsorption properties of activated carbon from HTC and pyrolysis carbonizates. <i>Biomass Conversion and Biorefinery</i> , 2018 , 8, 317-328	2.3	15
50	Feedstock-Dependent Phosphate Recovery in a Pilot-Scale Hydrothermal Liquefaction Bio-Crude Production. <i>Energies</i> , 2020 , 13, 379	3.1	14
49	Hydrothermale Karbonisierung: 3. Kinetisches Modell. <i>Chemie-Ingenieur-Technik</i> , 2015 , 87, 449-456	0.8	14
48	Toward an Intensified Process of Biomass-Derived Monomers: The Influence of 5-(Hydroxymethyl)furfural Byproducts on the Gold-Catalyzed Synthesis of 2,5-Furandicarboxylic Acid. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 11512-11521	8.3	11
47	Combustion Characteristics of Hydrochar and Pyrochar Derived from Digested Sewage Sludge. <i>Energies</i> , 2020 , 13, 4164	3.1	11
46	Catalytic effect of aluminium chloride on the example of the conversion of sugar model compounds. <i>Journal of Molecular Catalysis A</i> , 2015 , 402, 64-70		10
45	Process design and economics of an aluminium chloride catalysed organosolv process. <i>Biomass Conversion and Biorefinery</i> , 2016 , 6, 335-345	2.3	10
44	Oxidation of hexanal to hexanoic acid in supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2006 , 39, 211-219	4.2	10

43	Hydrothermal carbonization of <i>Spirulina platensis</i> and <i>Chlorella vulgaris</i> combined with protein isolation and struvite production. <i>Bioresource Technology Reports</i> , 2019 , 6, 159-167	4.1	10
42	Effect of residence time during hydrothermal carbonization of biogas digestate on the combustion characteristics of hydrochar and the biogas production of process water. <i>Bioresource Technology</i> , 2021 , 333, 125110	11	10
41	Fate of Nitrogen, Phosphate, and Potassium during Hydrothermal Carbonization and the Potential for Nutrient Recovery. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 15507-15516	8.3	9
40	A biorefinery concept using forced chicory roots for the production of biogas, hydrochar, and platform chemicals. <i>Biomass Conversion and Biorefinery</i> , 2019 , 11, 1453	2.3	9
39	Kinetics of the AlCl ₃ catalyzed xylan hydrolysis during Methanosolv pulping of beech wood. <i>RSC Advances</i> , 2014 , 4, 45118-45127	3.7	8
38	Supercritical oxidation in water and carbon dioxide. <i>Environmental Progress</i> , 1998 , 17, 234-239		8
37	Nitrogen-Containing Hydrochar: The Influence of Nitrogen-Containing Compounds on the Hydrochar Formation. <i>ChemistryOpen</i> , 2020 , 9, 864-873	2.3	8
36	Effect of salt on the formation of 5-hydroxymethylfurfural from ketohexoses under aqueous conditions. <i>Reaction Chemistry and Engineering</i> , 2019 , 4, 747-762	4.9	7
35	Calculating the Reaction Order and Activation Energy for the Hydrothermal Carbonization of Fructose. <i>Chemie-Ingenieur-Technik</i> , 2020 , 92, 692-700	0.8	7
34	Bio-Based Carbon Materials from Potato Waste as Electrode Materials in Supercapacitors. <i>Energies</i> , 2020 , 13, 2406	3.1	7
33	Behandlung von Biomasse mit Berkritischem Wasser. <i>Chemie-Ingenieur-Technik</i> , 2011 , 83, 1381-1389	0.8	7
32	Prehydrolysis and organosolv delignification process for the recovery of hemicellulose and lignin from beech wood. <i>Bioresource Technology Reports</i> , 2020 , 11, 100506	4.1	7
31	Extraction of sugars from forced chicory roots. <i>Biomass Conversion and Biorefinery</i> , 2019 , 9, 699-708	2.3	6
30	Extraction of common microalgae by liquefied dimethyl ether: influence of species and pretreatment on oil yields and composition. <i>Biomass Conversion and Biorefinery</i> , 2020 , 1	2.3	6
29	Metal oxide-doped activated carbons from bakery waste and coffee grounds for application in supercapacitors. <i>Materials Science for Energy Technologies</i> , 2021 , 4, 69-80	5.2	6
28	Isomerization of Glucose to Fructose in Hydrolysates from Lignocellulosic Biomass Using Hydrotalcite. <i>Processes</i> , 2020 , 8, 644	2.9	5
27	Hydrothermale Karbonisierung. 4. Thermische Eigenschaften der Produkte. <i>Chemie-Ingenieur-Technik</i> , 2015 , 87, 1707-1712	0.8	5
26	Hydrothermal Conversion of Spent Sugar Beets into High-Value Platform Molecules. <i>Molecules</i> , 2020 , 25,	4.8	5

25	The effect of using different acids to catalyze the prehydrolysis stage on the organosolv delignification of beech wood in two-stage process. <i>Renewable Energy</i> , 2020 , 153, 1479-1487	8.1	4
24	The current phosphate recycling situation in China and Germany: a comparative review. <i>Frontiers of Agricultural Science and Engineering</i> , 2019 , 6, 403	1.7	4
23	Hydrothermal carbonization of fructose—effect of salts and reactor stirring on the growth and formation of carbon spheres. <i>Biomass Conversion and Biorefinery</i> , 2019 , 1	2.3	4
22	Biomass Liquefaction and Gasification	89-122	4
21	Applications of Supercritical Water	2002 , 422-446	4
20	Scale-Up in Hydrothermal Carbonization	2013 , 341-353	3
19	Aluminiumchlorid-katalysierter Organosolv-Aufschluss von Buchenholz. <i>Chemie-Ingenieur-Technik</i> , 2015 , 87, 922-930	0.8	3
18	Acid-assisted extraction and hydrolysis of inulin from chicory roots to obtain fructose-enriched extracts. <i>Biomass Conversion and Biorefinery</i> , 2020 , 1	2.3	3
17	Physico-mechanical properties and thermal decomposition characteristics of pellets from <i>Jatropha curcas</i> L. residues as affected by water addition. <i>Biofuels</i> , 2019 , 1-8	2	2
16	Technische Chemie 2010. <i>Nachrichten Aus Der Chemie</i> , 2011 , 59, 335-345	0.1	2
15	Chemical Reactions of C1 Compounds in Near-Critical and Supercritical Water. <i>ChemInform</i> , 2005 , 36, no		2
14	Hydrothermal Process for Extracting Phosphate from Animal Manure	2019 , 377-389	2
13	Is Steam Explosion a Promising Pretreatment for Acid Hydrolysis of Lignocellulosic Biomass?. <i>Processes</i> , 2020 , 8, 1626	2.9	2
12	Valorization of Byproducts from Hydrothermal Liquefaction of Sewage Sludge and Manure: the Development of a Struvite-Producing Unit for Nutrient Recovery. <i>Energy & Fuels</i> , 2021 , 35, 9408-9423	4.1	2
11	Electricity generation in microbial fuel cell from wet torrefaction wastewater and locally developed corncob electrodes. <i>Fuel Cells</i> , 2021 , 21, 182-194	2.9	2
10	Activated Carbon from Corncobs Doped with RuO ₂ as Biobased Electrode Material. <i>Electronic Materials</i> , 2021 , 2, 324-343	0.8	2
9	Thermal treatment versus hydrothermal carbonization: How to synthesize nitrogen-enriched carbon materials for energy storage applications?. <i>International Journal of Energy Research</i> , 2020 , 4, 1-10	4.5	2
8	Synthese von Hexansäure in Berkritischem CO ₂ . <i>Chemie-Ingenieur-Technik</i> , 2011 , 83, 1399-1404	0.8	1

- 7 Chemistry in Near- and Supercritical Water **2010**, 457 1
- 6 High Pressure in Renewable Energy Processes 235-256 1
- 5 Supercritical Water Gasification for Biomass-Based Hydrogen Production **2016**, 109-130 0
- 4 Hydrothermal Liquefaction [Upgrading] **2014**, 175-187
- 3 Chemical Reaction Modeling in Supercritical Fluids in Special Consideration of Reactions in Supercritical Water 165-191
- 2 Conversion of Organic Streams in Supercritical Water. *Materials Research Society Symposia Proceedings*, **2005**, 884, 1
- 1 Thermochemical Conversion of Lignocellulosic Biomass for the Production of Bioenergy **2019**, 619-628