

Andrea Kruse

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.

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	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
149	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
148	Activated Carbon from Corncobs Doped with RuO ₂ as Biobased Electrode Material. <i>Electronic Materials</i> , 2021 , 2, 324-343	0.8	2
147	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
146	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
145	Structural Effects of Cellulose on Hydrolysis and Carbonization Behavior during Hydrothermal Treatment. <i>ACS Omega</i> , 2020 , 5, 12210-12223	3.9	21
144	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
143	Bio-Based Carbon Materials from Potato Waste as Electrode Materials in Supercapacitors. <i>Energies</i> , 2020 , 13, 2406	3.1	7
142	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
141	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
140	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
139	Isomerization of Glucose to Fructose in Hydrolysates from Lignocellulosic Biomass Using Hydrotalcite. <i>Processes</i> , 2020 , 8, 644	2.9	5
138	Feedstock-Dependent Phosphate Recovery in a Pilot-Scale Hydrothermal Liquefaction Bio-Crude Production. <i>Energies</i> , 2020 , 13, 379	3.1	14
137	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
136	Porous carbons derived from hydrothermally treated biogas digestate. <i>Waste Management</i> , 2020 , 105, 170-179	8.6	15
135	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
134	The use of process simulation in supercritical fluids applications. <i>Reaction Chemistry and Engineering</i> , 2020 , 5, 424-451	4.9	17

133	Acid Hydrolysis of Lignocellulosic Biomass: Sugars and Furfurals Formation. <i>Catalysts</i> , 2020 , 10, 437	4	32
132	Towards the Properties of Different Biomass-Derived Proteins via Various Extraction Methods. <i>Molecules</i> , 2020 , 25,	4.8	21
131	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
130	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
129	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
128	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
127	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
126	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
125	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
124	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
123	Combustion Characteristics of Hydrochar and Pyrochar Derived from Digested Sewage Sludge. <i>Energies</i> , 2020 , 13, 4164	3.1	11
122	Hydrothermal Conversion of Spent Sugar Beets into High-Value Platform Molecules. <i>Molecules</i> , 2020 , 25,	4.8	5
121	Nitrogen-Containing Hydrochar: The Influence of Nitrogen-Containing Compounds on the Hydrochar Formation. <i>ChemistryOpen</i> , 2020 , 9, 864-873	2.3	8
120	Is Steam Explosion a Promising Pretreatment for Acid Hydrolysis of Lignocellulosic Biomass?. <i>Processes</i> , 2020 , 8, 1626	2.9	2
119	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
118	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
117	Effect of protein during hydrothermal carbonization of brewer's spent grain. <i>Bioresource Technology</i> , 2019 , 293, 122117	11	21
116	Steam Explosion Conditions Highly Influence the Biogas Yield of Rice Straw. <i>Molecules</i> , 2019 , 24,	4.8	15

115	Hydrothermal carbonization of biogas digestate: Effect of digestate origin and process conditions. <i>Waste Management</i> , 2019 , 100, 138-150	8.6	36
114	Extraction of sugars from forced chicory roots. <i>Biomass Conversion and Biorefinery</i> , 2019 , 9, 699-708	2.3	6
113	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
112	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
111	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
110	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
109	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
108	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
107	Pyrolysis Kinetics of Hydrochars Produced from Brewer's Spent Grains. <i>Catalysts</i> , 2019 , 9, 625	4	16
106	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
105	Influence of the pH Value on the Hydrothermal Degradation of Fructose. <i>ChemistryOpen</i> , 2019 , 8, 1109-1120	1.3	15
104	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
103	Hydrothermal Process for Extracting Phosphate from Animal Manure 2019 , 377-389		2
102	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
101	Thermochemical Conversion of Lignocellulosic Biomass for the Production of Bioenergy 2019 , 619-628		
100	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
99	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
98	The effect of different Brønsted acids on the hydrothermal conversion of fructose to HMF. <i>Green Chemistry</i> , 2018 , 20, 2231-2241	10	54

97	Hydrothermal biomass conversion: Quo vadis?. <i>Journal of Supercritical Fluids</i> , 2018 , 134, 114-123	4.2	55
96	Direct liquefaction of lignin and lignin rich biomasses by heterogenic catalytic hydrogenolysis. <i>Biomass and Bioenergy</i> , 2018 , 111, 352-360	5.3	27
95	Supercritical water gasification of biomass for hydrogen production [Review]. <i>Journal of Supercritical Fluids</i> , 2018 , 133, 573-590	4.2	194
94	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
93	Sucrose Is a Promising Feedstock for the Synthesis of the Platform Chemical Hydroxymethylfurfural. <i>Energies</i> , 2018 , 11, 645	3.1	35
92	Properties of Hydrochar as Function of Feedstock, Reaction Conditions and Post-Treatment. <i>Energies</i> , 2018 , 11, 674	3.1	36
91	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
90	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
89	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
88	Hydrothermal Carbonization of Fructose: Growth Mechanism and Kinetic Model. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 13877-13887	8.3	50
87	One stage olive mill waste streams valorisation via hydrothermal carbonisation. <i>Waste Management</i> , 2018 , 80, 224-234	8.6	65
86	Biobased Functional Carbon Materials: Production, Characterization, and Applications-A Review. <i>Materials</i> , 2018 , 11,	3.5	39
85	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
84	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
83	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
82	Influence of the biomass components on the pore formation of activated carbon. <i>Biomass and Bioenergy</i> , 2017 , 97, 53-64	5.3	70
81	Effects of different biofilm carriers on biogas production during anaerobic digestion of corn straw. <i>Bioresource Technology</i> , 2017 , 244, 445-451	11	46
80	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

79	Supercritical Water Gasification of Biomass in a Ceramic Reactor: Long-Time Batch Experiments. <i>Energies</i> , 2017 , 10, 1734	3.1	25
78	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
77	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
76	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
75	Process design and economics of an aluminium chloride catalysed organosolv process. <i>Biomass Conversion and Biorefinery</i> , 2016 , 6, 335-345	2.3	10
74	Supercritical Water Gasification for Biomass-Based Hydrogen Production 2016 , 109-130		0
73	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
72	Fate of Nitrogen during Hydrothermal Carbonization. <i>Energy & Fuels</i> , 2016 , 30, 8037-8042	4.1	71
71	Cultivation of microalgae with recovered nutrients after hydrothermal liquefaction. <i>Algal Research</i> , 2015 , 9, 99-106	5	85
70	Suitability of hydrothermal liquefaction as a conversion route to produce biofuels from macroalgae. <i>Algal Research</i> , 2015 , 11, 234-241	5	66
69	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
68	Hydrothermal Liquefaction of Microalgae in a Continuous Stirred-Tank Reactor. <i>Energy & Fuels</i> , 2015 , 29, 6422-6432	4.1	45
67	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
66	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
65	Water —A magic solvent for biomass conversion. <i>Journal of Supercritical Fluids</i> , 2015 , 96, 36-45	4.2	198
64	Aluminiumchlorid-katalysierter Organosolv-Aufschluss von Buchenholz. <i>Chemie-Ingenieur-Technik</i> , 2015 , 87, 922-930	0.8	3
63	Hydrothermale Karbonisierung. 4. Thermische Eigenschaften der Produkte. <i>Chemie-Ingenieur-Technik</i> , 2015 , 87, 1707-1712	0.8	5
62	Low temperature supercritical water gasification of biomass constituents: Glucose/phenol mixtures. <i>Biomass and Bioenergy</i> , 2015 , 73, 84-94	5.3	46

61	Hydrothermale Karbonisierung: 3. Kinetisches Modell. <i>Chemie-Ingenieur-Technik</i> , 2015 , 87, 449-456	0.8	14
60	Hydrothermal Carbonization of Biomass 2015 , 325-352		15
59	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
58	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
57	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
56	Kinetic Modelling of Hydrothermal Lignin Depolymerisation. <i>Waste and Biomass Valorization</i> , 2014 , 5, 985-994	3.2	36
55	Supercritical water gasification of hydrochar. <i>Chemical Engineering Research and Design</i> , 2014 , 92, 1864-1875	13.5	32
54	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
53	Hydrochar amendment promotes microbial immobilization of mineral nitrogen. <i>Journal of Plant Nutrition and Soil Science</i> , 2014 , 177, 59-67	2.3	53
52	Assessing microalgae biorefinery routes for the production of biofuels via hydrothermal liquefaction. <i>Bioresource Technology</i> , 2014 , 174, 256-65	11	76
51	Hydrothermal Liquefaction Upgrading 2014 , 175-187		
50	Hydrothermal conversion of biomass to fuels and energetic materials. <i>Current Opinion in Chemical Biology</i> , 2013 , 17, 515-21	9.7	325
49	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
48	Scale-Up in Hydrothermal Carbonization 2013 , 341-353		3
47	Experimental comparison of hydrothermal and vapothermal carbonization. <i>Fuel Processing Technology</i> , 2013 , 115, 261-269	7.2	67
46	Hydrothermal disproportionation of formaldehyde at subcritical conditions. <i>Journal of Supercritical Fluids</i> , 2013 , 73, 43-50	4.2	17
45	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
44	The swelling and dissolution of cellulose crystallites in subcritical and supercritical water. <i>Cellulose</i> , 2013 , 20, 2731-2744	5.5	33

43	Properties and degradability of hydrothermal carbonization products. <i>Journal of Environmental Quality</i> , 2013 , 42, 1565-73	3-4	45
42	Influence of salts on the subcritical water-gas shift reaction. <i>Journal of Supercritical Fluids</i> , 2012 , 66, 207-214	4-14	43
41	Hydrothermal conversion of biomass and different model compounds. <i>Journal of Supercritical Fluids</i> , 2012 , 71, 80-85	4-2	25
40	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
39	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
38	Hydrothermale Karbonisierung: 2. Kinetik der Biertreber-Umwandlung. <i>Chemie-Ingenieur-Technik</i> , 2012 , 84, 509-512	0-8	32
37	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
36	Structural changes in microcrystalline cellulose in subcritical water treatment. <i>Biomacromolecules</i> , 2011 , 12, 2544-51	6-9	38
35	Technische Chemie 2010. <i>Nachrichten Aus Der Chemie</i> , 2011 , 59, 335-345	0-1	2
34	Synthese von Hexansäure in Berkritischem CO ₂ . <i>Chemie-Ingenieur-Technik</i> , 2011 , 83, 1399-1404	0-8	1
33	Behandlung von Biomasse mit Berkritischem Wasser. <i>Chemie-Ingenieur-Technik</i> , 2011 , 83, 1381-1389	0-8	7
32	Hydrothermale Karbonisierung: 1. Einfluss des Lignins in Lignocellulosen. <i>Chemie-Ingenieur-Technik</i> , 2011 , 83, 1734-1741	0-8	18
31	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
30	Hydrothermal conversion of seaweeds in a batch autoclave. <i>Journal of Supercritical Fluids</i> , 2011 , 58, 131-135	4-35	63
29	Chemistry in Near- and Supercritical Water 2010 , 457		1
28	Hydrothermal gasification of biomass: consecutive reactions to long-living intermediates. <i>Energy and Environmental Science</i> , 2010 , 3, 136-143	35-4	72
27	Influence of phenol on glucose degradation during supercritical water gasification. <i>Journal of Supercritical Fluids</i> , 2010 , 53, 42-47	4-2	50
26	Hydrothermal biomass gasification. <i>Journal of Supercritical Fluids</i> , 2009 , 47, 391-399	4-2	254

25	Supercritical water gasification. <i>Biofuels, Bioproducts and Biorefining</i> , 2008 , 2, 415-437	5.3	365
24	Economic analysis of sewage sludge gasification in supercritical water for hydrogen production. <i>Biomass and Bioenergy</i> , 2008 , 32, 1085-1096	5.3	117
23	Biomass gasification in supercritical water: II. Effect of catalyst. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 4520-4526	6.7	166
22	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
21	Biomass gasification in supercritical water: Part 1. Effect of the nature of biomass. <i>Fuel</i> , 2007 , 86, 2410-2415	4.1	139
20	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
19	Oxidation of hexanal to hexanoic acid in supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2006 , 39, 211-219	4.2	10
18	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
17	Chemical Reactions of C1 Compounds in Near-Critical and Supercritical Water. <i>ChemInform</i> , 2005 , 36, no		2
16	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
15	Conversion of Organic Streams in Supercritical Water. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 884, 1		
14	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
13	Chemical reactions of C(1) compounds in near-critical and supercritical water. <i>Chemical Reviews</i> , 2004 , 104, 5803-21	68.1	229
12	Hydrogen from methane and supercritical water. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 909-11	16.4	43
11	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
10	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
9	Applications of Supercritical Water 2002 , 422-446		4
8	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

7	Supercritical oxidation in water and carbon dioxide. <i>Environmental Progress</i> , 1998 , 17, 234-239	8
6	Chemical Reactions in Supercritical Water - 1. Pyrolysis of tert.-Butylbenzene. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1996 , 100, 80-83	23
5	Chemical Reaction Modeling in Supercritical Fluids in Special Consideration of Reactions in Supercritical Water 165-191	
4	Hydrothermal carbonization of fructose—effect of salts and reactor stirring on the growth and formation of carbon spheres. <i>Biomass Conversion and Biorefinery</i> , 1	2-3 4
3	Thermal treatment versus hydrothermal carbonization: How to synthesize nitrogen-enriched carbon materials for energy storage applications?. <i>International Journal of Energy Research</i> ,	4-5 2
2	Biomass Liquefaction and Gasification 89-122	4
1	High Pressure in Renewable Energy Processes 235-256	1