Phillip E Savage

List of Publications by Year
in descending order

401 papers	17,444 citations	14644 66 h-index	17090 122 g-index
409 all docs	409 docs citations	409 times ranked	8586 citing authors

#	Article	IF	Citations
1	Roles of Water for Chemical Reactions in High-Temperature Water. Chemical Reviews, 2002, 102, 2725-2750.	23.0	1,356
2	Organic Chemical Reactions in Supercritical Water. Chemical Reviews, 1999, 99, 603-622.	23.0	1,270
3	Reactions at supercritical conditions: Applications and fundamentals. AICHE Journal, 1995, 41, 1723-1778.	1.8	875
4	Hydrothermal Liquefaction and Gasification of Nannochloropsis sp.. Energy & Fuels, 2010, 24, 3639-3646.	2.5	633
5	Hydrothermal Liquefaction of a Microalga with Heterogeneous Catalysts. Industrial & Engineering Chemistry Research, 2011, 50, 52-61.	1.8	492
6	Hydrothermal liquefaction of Nannochloropsis sp.: Systematic study of process variables and analysis of the product fractions. Biomass and Bioenergy, 2012, 46, 317-331.	2.9	301
7	Decomposition of Formic Acid under Hydrothermal Conditions. Industrial & Engineering Chemistry Research, 1998, 37, 2-10.	1.8	289
8	A perspective on catalysis in sub- and supercritical water. Journal of Supercritical Fluids, 2009, 47, 407-414.	1.6	285
9	Upgrading of crude algal bio-oil in supercritical water. Bioresource Technology, 2011, 102, 1899-1906.	4.8	255
10	Biodiesel Production from Wet Algal Biomass through in Situ Lipid Hydrolysis and Supercritical Transesterification. Energy & Fuels, 2010, 24, 5235-5243.	2.5	247
11	Role of water in formic acid decomposition. AICHE Journal, 1998, 44, 405-415.	1.8	216
12	Catalytic hydrothermal deoxygenation of palmitic acid. Energy and Environmental Science, 2010, 3, 311.	15.6	213
13	Hydrothermal Decarboxylation and Hydrogenation of Fatty Acids over Pt/C. ChemSusChem, 2011, 4, 481-486.	3.6	209
14	Fast Hydrothermal Liquefaction of <i>Nannochloropsis</i> sp. To Produce Biocrude. Energy & Fuels, 2013, 27, 1391-1398.	2.5	194
15	Hydrothermal Treatment of Protein, Polysaccharide, and Lipids Alone and in Mixtures. Energy & Fuels, 2014, 28, 7501-7509.	2.5	183
16	Characterization of Product Fractions from Hydrothermal Liquefaction of <i>Nannochloropsis</i> sp. and the Influence of Solvents. Energy & Fuels, 2011, 25, 3235-3243.	2.5	181
17	Mechanisms and kinetics models for hydrocarbon pyrolysis. Journal of Analytical and Applied Pyrolysis, 2000, 54, 109-126.	2.6	174
18	A general kinetic model for the hydrothermal liquefaction of microalgae. Bioresource Technology, 2014, 163, 123-127.	4.8	171

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19	Hydrothermal catalytic production of fuels and chemicals from aquatic biomass. Journal of Chemical Technology and Biotechnology, 2013, 88, 13-24.	1.6	163
20	Catalytic hydrotreatment of crude algal bio-oil in supercritical water. Applied Catalysis B: Environmental, 2011, 104, 136-143.	10.8	158
21	Temperature Dependence of Hydrogen Bonding in Supercritical Water. The Journal of Physical Chemistry, 1996, 100, 403-408.	2.9	152
22	Catalytic treatment of crude algal bio-oil in supercritical water: optimization studies. Energy and Environmental Science, 2011, 4, 1447.	15.6	150
23	Hydrothermal liquefaction of sewage sludge under isothermal and fast conditions. Bioresource Technology, 2017, 232, 27-34.	4.8	150
24	Gasification of alga Nannochloropsis sp. in supercritical water. Journal of Supercritical Fluids, 2012, 61, 139-145.	1.6	141
25	Hydrothermal Reactions of Biomolecules Relevant for Microalgae Liquefaction. Industrial & Engineering Chemistry Research, 2015, 54, 11733-11758.	1.8	128
26	Assessment of Noncatalytic Biodiesel Synthesis Using Supercritical Reaction Conditions. Industrial & Engineering Chemistry Research, 2008, 47, 6801-6808.	1.8	127
27	Hydrothermal catalytic processing of pretreated algal oil: A catalyst screening study. Fuel, 2014, 120, 141-149.	3.4	125
28	Activated Carbons for Hydrothermal Decarboxylation of Fatty Acids. ACS Catalysis, 2011, 1, 227-231.	5.5	122
29	Kinetics of phenol oxidation in supercritical water. AICHE Journal, 1992, 38, 321-327.	1.8	116
30	Reaction Mechanism for Phenol Oxidation in Supercritical Water. The Journal of Physical Chemistry, 1994, 98, 12646-12652.	2.9	115
31	Phenol oxidation in supercritical water. Journal of Supercritical Fluids, 1990, 3, 240-248.	1.6	113
32	Synergistic and Antagonistic Interactions during Hydrothermal Liquefaction of Soybean Oil, Soy Protein, Cellulose, Xylose, and Lignin. ACS Sustainable Chemistry and Engineering, 2018, 6, 14501-14509.	3.2	111
33	Kinetics and Mechanism of Methanol Oxidation in Supercritical Water. The Journal of Physical Chemistry, 1996, 100, 15834-15842.	2.9	109
34	Noncatalytic Gasification of Lignin in Supercritical Water. Energy & Fuels, 2008, 22, 1328-1334.	2.5	108
35	Kinetics and Mechanism of Tetrahydrofuran Synthesis via 1,4-Butanediol Dehydration in High-Temperature Water. Journal of Organic Chemistry, 2006, 71, 6229-6239.	1.7	107
36	Recent advances in acid- and base-catalyzed organic synthesis in high-temperature liquid water. Chemical Engineering Science, 2004, 59, 4903-4909.	1.9	106

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37	Feedstocks for fuels and chemicals from algae: Treatment of crude bio-oil over HZSM-5. Algal Research, 2013, 2, 154-163.	2.4	105
38	A reaction network for the hydrothermal liquefaction of Nannochloropsis sp.. Algal Research, 2013, 2, 416-425.	2.4	102
39	Kinetic model for supercritical water gasification of algae. Physical Chemistry Chemical Physics, 2012, 14, 3140.	1.3	101
40	Effect of Metals on Supercritical Water Gasification of Cellulose and Lignin. Industrial & Engineering Chemistry Research, 2010, 49, 2694-2700.	1.8	100
41	2-Chlorophenol oxidation in supercritical water: Global kinetics and reaction products. AICHE Journal, 1993, 39, 178-187.	1.8	99
42	Detailed chemical kinetics model for supercritical water oxidation of C1 compounds and H2. AICHE Journal, 1995, 41, 1874-1888.	1.8	99
43	Phenol oxidation pathways in supercritical water. Industrial & Engineering Chemistry Research, 1992, 31, 2451-2456.	1.8	95
44	Algae Under Pressure and in Hot Water. Science, 2012, 338, 1039-1040.	6.0	94
45	Oil from plastic via hydrothermal liquefaction: Production and characterization. Applied Energy, 2020, 278, 115673.	5.1	94
46	Gasification of Guaiacol and Phenol in Supercritical Water. Energy & Fuels, 2007, 21, 2340-2345.	2.5	93
47	Molecular Dynamics of Supercritical Water Using a Flexible SPC Model. The Journal of Physical Chemistry, 1994, 98, 13067-13076.	2.9	92
48	Trash to Treasure: From Harmful Algal Blooms to High-Performance Electrodes for Sodium-Ion Batteries. Environmental Science & Technology, 2015, 49, 12543-12550.	4.6	92
49	Asphaltene reaction pathways. 1. Thermolysis. Industrial & Engineering Chemistry Process Design and Development, 1985, 24, 1169-1174.	0.6	91
50	Asphaltene reaction pathways. 2. Pyrolysis of n-pentadecylbenzene. Industrial & Engineering Chemistry Research, 1987, 26, 488-494.	1.8	89
51	A quantitative kinetic model for the fast and isothermal hydrothermal liquefaction of Nannochloropsis sp.. Bioresource Technology, 2016, 214, 102-111.	4.8	88
52	Asphaltene reaction pathways. 3. Effect of reaction environment. Energy & Fuels, 1988, 2, 619-628.	2.5	83
53	Characterization of biocrudes recovered with and without solvent after hydrothermal liquefaction of algae. Algal Research, 2014, 6, 1-7.	2.4	83
54	Acid-Catalyzed Reactions in Carbon Dioxide-Enriched High-Temperature Liquid Water. Industrial & Engineering Chemistry Research, 2003, 42, 290-294.	1.8	81

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55	Heterogeneous catalysis in supercritical water. Catalysis Today, 2000, 62, 167-173.	2.2	76
56	Kinetics and Mechanism of Cyclohexanol Dehydration in High-Temperature Water. Industrial & Engineering Chemistry Research, 2001, 40, 1822-1831.	1.8	76
57	Catalytic hydrothermal hydrodenitrogenation of pyridine. Applied Catalysis B: Environmental, 2011, 108-109, 54-60.	10.8	76
58	Modeling the effects of microalga biochemical content on the kinetics and biocrude yields from hydrothermal liquefaction. Bioresource Technology, 2017, 239, 144-150.	4.8	76
59	Reaction pathways and kinetic modeling for phenol gasification in supercritical water. Journal of Supercritical Fluids, 2013, 81, 200-209.	1.6	75
60	Hydrolytic Cleavage of Câ€“O Linkages in Lignin Model Compounds Catalyzed by Water-Tolerant Lewis Acids. Industrial & Engineering Chemistry Research, 2014, 53, 2633-2639.	1.8	75
61	Supercritical Water Oxidation Kinetics, Products, and Pathways for CH3- and CHO-Substituted Phenols. Industrial & Engineering Chemistry Research, 1997, 36, 1391-1400.	1.8	71
62	Kinetics and mechanism of methane oxidation in supercritical water. Journal of Supercritical Fluids, 1998, 12, 141-153.	1.6	71
63	Thermal Decomposition of Substituted Phenols in Supercritical Water. Industrial & Engineering Chemistry Research, 1997, 36, 1385-1390.	1.8	70
64	Fast and isothermal hydrothermal liquefaction of sludge at different severities: Reaction products, pathways, and kinetics. Applied Energy, 2020, 260, 114312.	5.1	70
65	Phenol oxidation over CuO/Al2O3 in supercritical water. Applied Catalysis B: Environmental, 2000, 28, 275-288.	10.8	69
66	Phenol oxidation in supercritical water: formation of dibenzofuran, dibenzo-p-dioxin, and related compounds. Environmental Science & Technology, 1991, 25, 1507-1510.	4.6	68
67	Supercritical Water Gasification of Phenol and Glycine as Models for Plant and Protein Biomass. Energy & Fuels, 2008, 22, 871-877.	2.5	67
68	Noncatalytic Gasification of Cellulose in Supercritical Water. Energy & Fuels, 2007, 21, 3637-3643.	2.5	66
69	Intermediates and kinetics for phenol gasification in supercritical water. Physical Chemistry Chemical Physics, 2012, 14, 2900.	1.3	65
70	Catalysis during methanol gasification in supercritical water. Journal of Supercritical Fluids, 2006, 39, 228-232.	1.6	64
71	Development of NiCu Catalysts for Aqueous-Phase Hydrodeoxygenation. ACS Catalysis, 2014, 4, 2605-2615.	5.5	64
72	Oxidation kinetics for methane/methanol mixtures in supercritical water. Journal of Supercritical Fluids, 2000, 17, 155-170.	1.6	63

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73	Kinetics of Acetic Acid Oxidation in Supercritical Water. Environmental Science & Technology, 1995, 29, 216-221.	4.6	62
74	Hydrothermal stability of aromatic carboxylic acids. Journal of Supercritical Fluids, 2003, 27, 263-274.	1.6	62
75	A reduced mechanism for methanol oxidation in supercritical water. Chemical Engineering Science, 1998, 53, 857-867.	1.9	61
76	The use of hydrothermal carbonization to recycle nutrients in algal biofuel production. Environmental Progress and Sustainable Energy, 2013, 32, 962-975.	1.3	60
77	Hydrothermal Catalytic Cracking of Fatty Acids with HZSM-5. ACS Sustainable Chemistry and Engineering, 2014, 2, 88-94.	3.2	60
78	Comparison of rigid and flexible simple point charge water models at supercritical conditions. Journal of Computational Chemistry, 1996, 17, 1757-1770.	1.5	59
79	Hydrothermal Reaction Kinetics and Pathways of Phenylalanine Alone and in Binary Mixtures. ChemSusChem, 2012, 5, 1743-1757.	3.6	59
80	Synergistic interactions during hydrothermal liquefaction of plastics and biomolecules. Chemical Engineering Journal, 2021, 417, 129268.	6.6	58
81	Fast catalytic oxidation of phenol in supercritical water. Catalysis Today, 1998, 40, 333-342.	2.2	57
82	Expanded and Updated Results for Supercritical Water Gasification of Cellulose and Lignin in Metal-Free Reactors. Energy & Fuels, 2009, 23, 6213-6221.	2.5	57
83	Noncatalytic esterification of oleic acid in ethanol. Journal of Supercritical Fluids, 2010, 53, 53-59.	1.6	57
84	Supercritical Water Oxidation of Methylamine. Industrial & Engineering Chemistry Research, 2005, 44, 5318-5324.	1.8	56
85	Hydrothermal decarboxylation of unsaturated fatty acids over <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">PtSn</mml:mi></mml:mrow><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:mo>/</mml:m mathvariant="normal">C</mml:mi></mml:mrow></mml:math> catalysts. Fuel, 2015, 156, 219-224.	3.4	56
86	Fatty Acids for Nutraceuticals and Biofuels from Hydrothermal Carbonization of Microalgae. Industrial & Engineering Chemistry Research, 2015, 54, 4066-4071.	1.8	56
87	Methane to methanol in supercritical water. Journal of Supercritical Fluids, 1994, 7, 135-144.	1.6	55
88	Quantifying rate enhancements for acid catalysis in CO₂â€enriched highâ€temperature water. AIChE Journal, 2008, 54, 516-528.	1.8	55
89	Asphaltene reaction pathwaysâ€”v. Chemical and mathematical modeling. Chemical Engineering Science, 1989, 44, 393-404.	1.9	54
90	Effect of reaction time and algae loading on water-soluble and insoluble biocrude fractions from hydrothermal liquefaction of algae. Algal Research, 2015, 12, 60-67.	2.4	54

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91	Products and Kinetics for Isothermal Hydrothermal Liquefaction of Soy Protein Concentrate. ACS Sustainable Chemistry and Engineering, 2016, 4, 2725-2733.	3.2	52
92	Asphaltene reaction pathways. 4. Pyrolysis of tridecylcyclohexane and 2-ethyltetralin. Industrial & Engineering Chemistry Research, 1988, 27, 1348-1356.	1.8	50
93	Effect of pH on Ether, Ester, and Carbonate Hydrolysis in High-Temperature Water. Industrial & Engineering Chemistry Research, 2008, 47, 577-584.	1.8	50
94	Kinetic model for noncatalytic supercritical water gasification of cellulose and lignin. AIChE Journal, 2010, 56, 2412-2420.	1.8	50
95	Algal polycultures enhance coproduct recycling from hydrothermal liquefaction. Bioresource Technology, 2017, 224, 630-638.	4.8	50
96	Reactions of polycyclic alkylaromatics: Structure and reactivity. AIChE Journal, 1991, 37, 1613-1624.	1.8	49
97	Hydrothermal Liquefaction of Model Food Waste Biomolecules and Ternary Mixtures under Isothermal and Fast Conditions. ACS Sustainable Chemistry and Engineering, 2018, 6, 9018-9027.	3.2	49
98	Effect of Process Variables on Food Waste Valorization via Hydrothermal Liquefaction. ACS ES&T Engineering, 2021, 1, 363-374.	3.7	49
99	Products, pathways, and kinetics for reactions of indole under supercritical water gasification conditions. Journal of Supercritical Fluids, 2013, 73, 161-170.	1.6	48
100	Effect of temperature, water loading, and Ru/C catalyst on water-insoluble and water-soluble biocrude fractions from hydrothermal liquefaction of algae. Bioresource Technology, 2017, 239, 1-6.	4.8	48
101	Catalytic Oxidation of Phenol over MnO2in Supercritical Water. Industrial & Engineering Chemistry Research, 1999, 38, 3793-3801.	1.8	47
102	RECENT ADVANCES IN CATALYTIC OXIDATION IN SUPERCRITICAL WATER. Combustion Science and Technology, 2006, 178, 443-465.	1.2	47
103	Hydrothermal Gasification of Nannochloropsis sp. with Ru/C. Energy & Fuels, 2012, 26, 4575-4582.	2.5	47
104	Effects of processing conditions on biocrude yields from fast hydrothermal liquefaction of microalgae. Bioresource Technology, 2016, 206, 290-293.	4.8	47
105	Kinetics of Catalytic Supercritical Water Oxidation of Phenol over TiO2. Environmental Science & Technology, 2000, 34, 3191-3198.	4.6	46
106	Kinetics and Mechanism of p-Isopropenylphenol Synthesis via Hydrothermal Cleavage of Bisphenol A. Journal of Organic Chemistry, 2004, 69, 4724-4731.	1.7	46
107	Characterization of products from fast and isothermal hydrothermal liquefaction of microalgae. AIChE Journal, 2016, 62, 815-828.	1.8	45
108	Kinetics of carbon dioxide formation from the oxidation of phenols in supercritical water. Environmental Science & Technology, 1992, 26, 2388-2395.	4.6	44

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109	Kinetics of crossed aldol condensations in high-temperature water. Green Chemistry, 2004, 6, 227.	4.6	44
110	Process improvements for the supercritical in situ transesterification of carbonized algal biomass. Bioresource Technology, 2013, 136, 556-564.	4.8	44
111	Life Cycle Design of an Algal Biorefinery Featuring Hydrothermal Liquefaction: Effect of Reaction Conditions and an Alternative Pathway Including Microbial Regrowth. ACS Sustainable Chemistry and Engineering, 2014, 2, 867-874.	3.2	44
112	Fast and Isothermal Hydrothermal Liquefaction of Polysaccharide Feedstocks. ACS Sustainable Chemistry and Engineering, 2020, 8, 3762-3772.	3.2	44
113	Hydrothermal Synthesis of CdSe Nanoparticles. Industrial & Engineering Chemistry Research, 2007, 46, 4358-4362.	1.8	40
114	Reaction kinetics and pathways for phytol in high-temperature water. Chemical Engineering Journal, 2012, 189-190, 336-345.	6.6	39
115	Catalytic gasification of indole in supercritical water. Applied Catalysis B: Environmental, 2015, 166-167, 202-210.	10.8	39
116	Metals and Other Elements in Biocrude from Fast and Isothermal Hydrothermal Liquefaction of Microalgae. Energy & Fuels, 2018, 32, 4118-4126.	2.5	39
117	Total Organic Carbon Disappearance Kinetics for the Supercritical Water Oxidation of Monosubstituted Phenols. Environmental Science & Technology, 1999, 33, 1911-1915.	4.6	38
118	The independent and coupled effects of feedstock characteristics and reaction conditions on biocrude production by hydrothermal liquefaction. Applied Energy, 2019, 235, 714-728.	5.1	38
119	Kinetic model for reactions of indole under supercritical water gasification conditions. Chemical Engineering Journal, 2014, 241, 327-335.	6.6	37
120	Effect of Water Density on Hydrogen Peroxide Dissociation in Supercritical Water. 2. Reaction Kinetics. Journal of Physical Chemistry A, 2000, 104, 4441-4448.	1.1	36
121	Biorefinery sustainability assessment. Environmental Progress and Sustainable Energy, 2011, 30, 743-753.	1.3	36
122	Synthesis of p-isopropenylphenol in high-temperature water. Green Chemistry, 2004, 6, 222.	4.6	35
123	High-Temperature Liquid Water:Â A Viable Medium for Terephthalic Acid Synthesis. Environmental Science & Technology, 2005, 39, 5427-5435.	4.6	35
124	Kinetics and pathways for an algal phospholipid (1,2-dioleoyl-sn-glycero-3-phosphocholine) in high-temperature (175â€“350 Â°C) water. Green Chemistry, 2012, 14, 2856.	4.6	35
125	Supercritical water upgrading of water-insoluble and water-soluble biocrudes from hydrothermal liquefaction of Nannochloropsis microalgae. Journal of Supercritical Fluids, 2018, 133, 683-689.	1.6	35
126	Oxidation and Thermolysis of Methoxy-, Nitro-, and Hydroxy-Substituted Phenols in Supercritical Water. Industrial & Engineering Chemistry Research, 1999, 38, 1784-1791.	1.8	34

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127	Economic and environmental assessment of high-temperature water as a medium for terephthalic acid synthesis. Green Chemistry, 2003, 5, 649.	4.6	34
128	Detailed Chemical Kinetic Modeling of Methylamine in Supercritical Water. Industrial & Engineering Chemistry Research, 2005, 44, 9785-9793.	1.8	34
129	Kinetics and mechanism of N-substituted amide hydrolysis in high-temperature water. Journal of Supercritical Fluids, 2010, 51, 362-368.	1.6	34
130	Hydrothermal Liquefaction of Bacteria and Yeast Monocultures. Energy & Fuels, 2014, 28, 67-75.	2.5	34
131	Influence of process conditions and interventions on metals content in biocrude from hydrothermal liquefaction of microalgae. Algal Research, 2017, 26, 131-134.	2.4	34
132	Supercritical water gasification of phenol over Ni-Ru bimetallic catalysts. Water Research, 2019, 152, 12-20.	5.3	34
133	Growing Algae for Biodiesel on Direct Sunlight or Sugars: A Comparative Life Cycle Assessment. ACS Sustainable Chemistry and Engineering, 2015, 3, 386-395.	3.2	33
134	Kinetics and Products from o-Cresol Oxidation in Supercritical Water. Industrial & Engineering Chemistry Research, 1995, 34, 1941-1951.	1.8	32
135	Hydrothermal reactions of methylamine. Journal of Supercritical Fluids, 2004, 31, 301-311.	1.6	32
136	Ring-opening and hydrodenitrogenation of indole under hydrothermal conditions over Ni, Pt, Ru, and Ni-Ru bimetallic catalysts. Chemical Engineering Journal, 2021, 406, 126853.	6.6	32
137	Effect of Water Density on Hydrogen Peroxide Dissociation in Supercritical Water. 1. Reaction Equilibrium. Journal of Physical Chemistry A, 2000, 104, 4433-4440.	1.1	31
138	Stability and activity maintenance of Al2O3- and carbon nanotube-supported Ni catalysts during continuous gasification of glycerol in supercritical water. Journal of Supercritical Fluids, 2018, 135, 188-197.	1.6	31
139	Destruction of Perfluoroalkyl Acids Accumulated in <i>Typha latifolia</i> through Hydrothermal Liquefaction. ACS Sustainable Chemistry and Engineering, 2020, 8, 9257-9262.	3.2	31
140	Inhibition and Acceleration of Phenol Oxidation by Supercritical Water. Industrial & Engineering Chemistry Research, 2003, 42, 6303-6309.	1.8	30
141	The benzilâ€“benzilic acid rearrangement in high-temperature water. Green Chemistry, 2005, 7, 800.	4.6	30
142	Triflate-catalyzed (trans)esterification of lipids within carbonized algal biomass. Bioresource Technology, 2012, 111, 222-229.	4.8	30
143	Deactivation of Pt Catalysts during Hydrothermal Decarboxylation of Butyric Acid. ACS Sustainable Chemistry and Engineering, 2014, 2, 2399-2406.	3.2	30
144	Products, Pathways, and Kinetics for the Fast Hydrothermal Liquefaction of Soy Protein Isolate. ACS Sustainable Chemistry and Engineering, 2016, 4, 6931-6939.	3.2	30

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145	<i>110th Anniversary:</i> Influence of Solvents on Biocrude from Hydrothermal Liquefaction of Soybean Oil, Soy Protein, Cellulose, Xylose, and Lignin, and Their Quinary Mixture. Industrial & Engineering Chemistry Research, 2019, 58, 13971-13976.	1.8	30
146	A Rapid Hot-Injection Method for the Improved Hydrothermal Synthesis of CdSe Nanoparticles. Industrial & Engineering Chemistry Research, 2009, 48, 4316-4321.	1.8	28
147	Catalytic Hydrothermal Liquefaction of Soy Protein Concentrate. Energy & Fuels, 2015, 29, 3208-3214.	2.5	28
148	Power of Plankton: Effects of Algal Biodiversity on Biocrude Production and Stability. Environmental Science & Technology, 2016, 50, 13142-13150.	4.6	28
149	Influence of biodiversity, biochemical composition, and species identity on the quality of biomass and biocrude oil produced via hydrothermalÂliquefaction. Algal Research, 2017, 26, 203-214.	2.4	28
150	Supercritical Water Oxidation Kinetics and Pathways for Ethylphenols, Hydroxyacetophenones, and Other Monosubstituted Phenols. Industrial & Engineering Chemistry Research, 1999, 38, 1775-1783.	1.8	27
151	Kinetics of MnO2-Catalyzed Acetic Acid Oxidation in Supercritical Water. Industrial & Engineering Chemistry Research, 2000, 39, 4014-4019.	1.8	27
152	Effect of Water Density on Methanol Oxidation Kinetics in Supercritical Water. Journal of Physical Chemistry A, 2006, 110, 3627-3632.	1.1	27
153	Modeling Hydrolysis and Esterification Kinetics for Biofuel Processes. Industrial & Engineering Chemistry Research, 2011, 50, 3206-3211.	1.8	27
154	A perspective on algae, the environment, and energy. Environmental Progress and Sustainable Energy, 2013, 32, 877-883.	1.3	27
155	Biodiversity improves the ecological design of sustainable biofuel systems. GCB Bioenergy, 2018, 10, 752-765.	2.5	27
156	Effects of Potassium Phosphates on Hydrothermal Liquefaction of Triglyceride, Protein, and Polysaccharide. Energy & Fuels, 2020, 34, 15313-15321.	2.5	27
157	Discrimination between molecular and free-radical models of 1-phenyldodecane pyrolysis. Industrial & Engineering Chemistry Research, 1987, 26, 374-376.	1.8	26
158	Hydrogen-Transfer Mechanisms in 1-Dodecylpyrene Pyrolysis. Energy & Fuels, 1995, 9, 590-598.	2.5	26
159	Deoxygenation of benzofuran in supercritical water over a platinum catalyst. Applied Catalysis B: Environmental, 2012, 123-124, 357-366.	10.8	26
160	Pyrolysis kinetics for long-chain n-alkylbenzenes: experimental and mechanistic modeling results. Industrial & Engineering Chemistry Research, 1990, 29, 499-502.	1.8	25
161	Catalytic Hydrothermal Liquefaction of a Microalga in a Two-Chamber Reactor. Industrial & Engineering Chemistry Research, 2014, 53, 11939-11944.	1.8	25
162	Aromatics from saturated and unsaturated fatty acids via zeolite catalysis in supercritical water. Journal of Supercritical Fluids, 2015, 102, 73-79.	1.6	25

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163	Molecular and Lumped Products from Hydrothermal Liquefaction of Bovine Serum Albumin. ACS Sustainable Chemistry and Engineering, 2017, 5, 10967-10975.	3.2	25
164	Supercritical water gasification of lipid-extracted hydrochar to recover energy and nutrients. Journal of Supercritical Fluids, 2015, 99, 88-94.	1.6	24
165	Identifying and Modeling Interactions between Biomass Components during Hydrothermal Liquefaction in Sub-, Near-, and Supercritical Water. ACS Sustainable Chemistry and Engineering, 2021, 9, 13874-13882.	3.2	24
166	Catalyst Oxidation and Dissolution in Supercritical Water. Chemistry of Materials, 2018, 30, 1218-1229.	3.2	23
167	Biocrude Production from Fast and Isothermal Hydrothermal Liquefaction of Chitin. Energy & Fuels, 2019, 33, 11328-11338.	2.5	23
168	Using Solvents To Reduce the Metal Content in Crude Bio-oil from Hydrothermal Liquefaction of Microalgae. Industrial & Engineering Chemistry Research, 2019, 58, 22488-22496.	1.8	23
169	Stability and activity maintenance of sol-gel Ni-MxOy (M=Ti, Zr, Ta) catalysts during continuous gasification of glycerol in supercritical water. Journal of Supercritical Fluids, 2019, 148, 137-147.	1.6	23
170	Kinetics of coupled reactions: Lumping pentadecylbenzene pyrolysis into three parallel chains. Chemical Engineering Science, 1989, 44, 985-991.	1.9	22
171	Stability and activity of Pt and Ni catalysts for hydrodeoxygenation in supercritical water. Journal of Molecular Catalysis A, 2014, 388-389, 56-65.	4.8	22
172	Hydrothermal carbonization of simulated food waste for recovery of fatty acids and nutrients. Bioresource Technology, 2021, 341, 125872.	4.8	22
173	Near- and supercritical ethanol treatment of biocrude from hydrothermal liquefaction of microalgae. Bioresource Technology, 2016, 211, 779-782.	4.8	21
174	Ecological Stoichiometry Meets Ecological Engineering: Using Polycultures to Enhance the Multifunctionality of Algal Biocrude Systems. Environmental Science & Technology, 2017, 51, 11450-11458.	4.6	21
175	Hydrothermal reaction of tryptophan over Ni-based bimetallic catalysts. Journal of Supercritical Fluids, 2019, 143, 336-345.	1.6	21
176	A molecular, elemental, and multiphase kinetic model for the hydrothermal liquefaction of microalgae. Chemical Engineering Journal, 2021, 407, 127007.	6.6	21
177	Phenol Oxidation in Supercritical Water. ACS Symposium Series, 1995, , 217-231.	0.5	20
178	Hydration of 1-Phenyl-1-Propyne in High-Temperature Water with Catalysis by Water-Tolerant Lewis Acids. Industrial & Engineering Chemistry Research, 2010, 49, 535-540.	1.8	19
179	Mechanistic Modeling of Hydrolysis and Esterification for Biofuel Processes. Industrial & Engineering Chemistry Research, 2011, 50, 12471-12478.	1.8	19
180	Pyrolysis of a binary mixture of complex hydrocarbons: Reaction modeling. Chemical Engineering Science, 1990, 45, 859-873.	1.9	18

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