

Jaehoon Kim

List of Publications by Year in descending order

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214
papers

8,664
citations

31976

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all docs

216
docs citations

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times ranked

9105
citing authors

#	ARTICLE	IF	CITATIONS
1	Gas permeation properties of poly(amide-6-b-ethylene oxide)@silica hybrid membranes. <i>Journal of Membrane Science</i> , 2001, 193, 209-225.	8.2	385
2	Gas permeation of poly(amide-6-b-ethylene oxide) copolymer. <i>Journal of Membrane Science</i> , 2001, 190, 179-193.	8.2	320
3	Production of renewable diesel by hydroprocessing of soybean oil: Effect of catalysts. <i>Fuel</i> , 2012, 94, 578-585.	6.4	255
4	Cross-Linked Chitosan as an Efficient Binder for Si Anode of Li-ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2658-2665.	8.0	195
5	Revealing sodium ion storage mechanism in hard carbon. <i>Carbon</i> , 2019, 145, 67-81.	10.3	185
6	Revealing the Intercalation Mechanisms of Lithium, Sodium, and Potassium in Hard Carbon. <i>Advanced Energy Materials</i> , 2020, 10, 2000283.	19.5	175
7	Synthesis of biodiesel from rapeseed oil using supercritical methanol with metal oxide catalysts. <i>Bioresource Technology</i> , 2010, 101, 8686-8689.	9.6	168
8	Supercritical ethanol as an enhanced medium for lignocellulosic biomass liquefaction: Influence of physical process parameters. <i>Energy</i> , 2013, 59, 173-182.	8.8	167
9	Effect of heating rate on biomass liquefaction: Differences between subcritical water and supercritical ethanol. <i>Energy</i> , 2014, 68, 420-427.	8.8	166
10	High-yield hydrogen production from glucose by supercritical water gasification without added catalyst. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 11677-11690.	7.1	129
11	Epoxidized Natural Rubber/Chitosan Network Binder for Silicon Anode in Lithium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 16449-16457.	8.0	121
12	Selective caffeine removal from green tea using supercritical carbon dioxide extraction. <i>Journal of Food Engineering</i> , 2008, 89, 303-309.	5.2	111
13	Production of renewable diesel via catalytic deoxygenation of natural triglycerides: Comprehensive understanding of reaction intermediates and hydrocarbons. <i>Applied Energy</i> , 2014, 116, 199-205.	10.1	110
14	Liquefaction of major lignocellulosic biomass constituents in supercritical ethanol. <i>Energy</i> , 2015, 80, 64-74.	8.8	101
15	Direct one-pot conversion of monosaccharides into high-yield 2,5-dimethylfuran over a multifunctional Pd/Zr-based metal-organic framework@ sulfonated graphene oxide catalyst. <i>Green Chemistry</i> , 2017, 19, 2482-2490.	9.0	97
16	High-yield and high-calorific bio-oil production from concentrated sulfuric acid hydrolysis lignin in supercritical ethanol. <i>Fuel</i> , 2016, 172, 238-247.	6.4	93
17	Non-catalytic upgrading of fast pyrolysis bio-oil in supercritical ethanol and combustion behavior of the upgraded oil. <i>Applied Energy</i> , 2016, 172, 12-22.	10.1	91
18	A route to synthesis molybdenum disulfide-reduced graphene oxide (MoS ₂ -RGO) composites using supercritical methanol and their enhanced electrochemical performance for Li-ion batteries. <i>Journal of Power Sources</i> , 2016, 309, 202-211.	7.8	89

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19	Extended plateau capacity of phosphorus-doped hard carbon used as an anode in Na- and K-ion batteries. <i>Chemical Engineering Journal</i> , 2020, 391, 123576.	12.7	88
20	Production of renewable diesel by hydrotreatment of soybean oil: Effect of reaction parameters. <i>Chemical Engineering Journal</i> , 2013, 228, 114-123.	12.7	87
21	Supercritical alcohols as solvents and reducing agents for the synthesis of reduced graphene oxide. <i>Carbon</i> , 2013, 64, 207-218.	10.3	86
22	One-pot route to synthesize SnO ₂ -Reduced graphene oxide composites and their enhanced electrochemical performance as anodes in lithium-ion batteries. <i>Journal of Power Sources</i> , 2015, 293, 1024-1031.	7.8	86
23	Selective Conversion of Carbon Dioxide into Liquid Hydrocarbons and Long-Chain α -Olefins over Fe-Amorphous AlO _x Bifunctional Catalysts. <i>ACS Catalysis</i> , 2020, 10, 10325-10338.	11.2	81
24	Facile synthesis of reduced graphene oxide in supercritical alcohols and its lithium storage capacity. <i>Green Chemistry</i> , 2011, 13, 2714.	9.0	75
25	Hydrogen-enriched porous carbon nanosheets with high sodium storage capacity. <i>Carbon</i> , 2016, 98, 213-220.	10.3	74
26	Facile synthesis of nanosized Li ₄ Ti ₅ O ₁₂ in supercritical water. <i>Electrochemistry Communications</i> , 2011, 13, 650-653.	4.7	73
27	Extraction of bioactive components from <i>Centella asiatica</i> using subcritical water. <i>Journal of Supercritical Fluids</i> , 2009, 48, 211-216.	3.2	72
28	Highly-efficient and magnetically-separable ZnO/Co@N-CNTs catalyst for hydrodeoxygenation of lignin and its derived species under mild conditions. <i>Green Chemistry</i> , 2019, 21, 1021-1042.	9.0	72
29	Mo ₂ C/Graphene Nanocomposite As a Hydrodeoxygenation Catalyst for the Production of Diesel Range Hydrocarbons. <i>ACS Catalysis</i> , 2015, 5, 3292-3303.	11.2	71
30	Silicon oxycarbide produced from silicone oil for high-performance anode material in sodium ion batteries. <i>Chemical Engineering Journal</i> , 2018, 338, 126-136.	12.7	71
31	Continuous synthesis of surface-modified zinc oxide nanoparticles in supercritical methanol. <i>Journal of Supercritical Fluids</i> , 2010, 52, 76-83.	3.2	69
32	Depolymerization of concentrated sulfuric acid hydrolysis lignin to high-yield aromatic monomers in basic sub- and supercritical fluids. <i>Chemical Engineering Journal</i> , 2017, 317, 9-19.	12.7	69
33	Carbon with Expanded and Well-Developed Graphene Planes Derived Directly from Condensed Lignin as a High-Performance Anode for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 569-581.	8.0	64
34	Continuous Synthesis of Surface-Modified Metal Oxide Nanoparticles Using Supercritical Methanol for Highly Stabilized Nanofluids. <i>Chemistry of Materials</i> , 2008, 20, 6301-6303.	6.7	63
35	Supercritical water oxidation of wastewater from acrylonitrile manufacturing plant. <i>Journal of Hazardous Materials</i> , 2009, 163, 1142-1147.	12.4	63
36	Direct conversion of cellulose to high-yield methyl lactate over Ga-doped Zn/H-nanozeolite Y catalysts in supercritical methanol. <i>Green Chemistry</i> , 2017, 19, 1969-1982.	9.0	62

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37	Trimetallic Cu-Ni-Zn/H-ZSM-5 Catalyst for the One-Pot Conversion of Levulinic Acid to High-Yield 1,4-Pentanediol under Mild Conditions in an Aqueous Medium. <i>ACS Catalysis</i> , 2021, 11, 2846-2864.	11.2	61
38	Continuous supercritical water gasification of isooctane: A promising reactor design. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 1957-1970.	7.1	60
39	Preparation of bitter taste masked cetirizine dihydrochloride/ β -cyclodextrin inclusion complex by supercritical antisolvent (SAS) process. <i>Journal of Supercritical Fluids</i> , 2010, 55, 348-357.	3.2	60
40	Continuous synthesis of hierarchical porous ZnO microspheres in supercritical methanol and their enhanced electrochemical performance in lithium ion batteries. <i>Chemical Engineering Journal</i> , 2015, 266, 179-188.	12.7	60
41	Ga-doped Cu/H-nanozeolite-Y catalyst for selective hydrogenation and hydrodeoxygenation of lignin-derived chemicals. <i>Green Chemistry</i> , 2018, 20, 3253-3270.	9.0	60
42	Extraction of mangiferin from Mahkota Dewa (<i>Phaleria macrocarpa</i>) using subcritical water. <i>Journal of Industrial and Engineering Chemistry</i> , 2010, 16, 425-430.	5.8	59
43	Continuous synthesis of metal nanoparticles in supercritical methanol. <i>Journal of Supercritical Fluids</i> , 2010, 52, 285-291.	3.2	59
44	Understanding the relationship between the structure and depolymerization behavior of lignin. <i>Fuel</i> , 2018, 217, 202-210.	6.4	59
45	Extended flat voltage profile of hard carbon synthesized using a two-step carbonization approach as an anode in sodium ion batteries. <i>Journal of Power Sources</i> , 2019, 430, 157-168.	7.8	59
46	Metal nanoparticle synthesis using supercritical alcohol. <i>Materials Letters</i> , 2009, 63, 1880-1882.	2.6	58
47	Solvent effect on the enzymatic production of biodiesel from waste animal fat. <i>Journal of Cleaner Production</i> , 2018, 185, 382-388.	9.3	58
48	One-pot di- and polysaccharides conversion to highly selective 2,5-dimethylfuran over Cu-Pd/Amino-functionalized Zr-based metal-organic framework (UiO-66(NH ₂))@SGO tandem catalyst. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 337-354.	20.2	58
49	Annealing Effects of Dilute Polyaniline/NMP Solution. <i>Macromolecules</i> , 2000, 33, 7431-7439.	4.8	57
50	A Facile Supercritical Alcohol Route for Synthesizing Carbon Coated Hierarchically Mesoporous Li ₄ Ti ₅ O ₁₂ Microspheres. <i>Journal of Physical Chemistry C</i> , 2014, 118, 183-193.	3.1	57
51	Controlling intercalation sites of hard carbon for enhancing Na and K storage performance. <i>Chemical Engineering Journal</i> , 2021, 411, 128490.	12.7	57
52	High-yield hydrogen production by supercritical water gasification of various feedstocks: Alcohols, glucose, glycerol and long-chain alkanes. <i>Chemical Engineering Research and Design</i> , 2014, 92, 1834-1844.	5.6	56
53	A new role of supercritical ethanol in macroalgae liquefaction (<i>Saccharina japonica</i>): Understanding ethanol participation, yield, and energy efficiency. <i>Energy</i> , 2017, 118, 116-126.	8.8	54
54	Selective permeation of CO ₂ through pore-filled polyacrylonitrile membrane with poly(ethylene) Tj ETQqO 0 0 rgBT /Overlock_10 Tf 50 62	8.2	53

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55	Hydrogen-Enriched Reduced Graphene Oxide with Enhanced Electrochemical Performance in Lithium Ion Batteries. <i>Chemistry of Materials</i> , 2015, 27, 266-275.	6.7	53
56	Water-soluble, lignin-derived carbon dots with high fluorescent emissions and their applications in bioimaging. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 66, 387-395.	5.8	50
57	Reduced graphene oxide as a stable and high-capacity cathode material for Na-ion batteries. <i>Scientific Reports</i> , 2017, 7, 40910.	3.3	49
58	New liquid carbon dioxide based strategy for high energy/power density LiFePO ₄ . <i>Nano Energy</i> , 2017, 36, 398-410.	16.0	49
59	Characterization of surface-modified ceria oxide nanoparticles synthesized continuously in supercritical methanol. <i>Journal of Supercritical Fluids</i> , 2009, 50, 283-291.	3.2	48
60	Template-free synthesis of hierarchical porous anatase TiO ₂ microspheres with carbon coating and their electrochemical properties. <i>Chemical Engineering Journal</i> , 2014, 241, 216-227.	12.7	48
61	Solvothermal liquefaction of alkali lignin to obtain a high yield of aromatic monomers while suppressing solvent consumption. <i>Green Chemistry</i> , 2018, 20, 4957-4974.	9.0	47
62	Carbon coating on lithium iron phosphate (LiFePO ₄): Comparison between continuous supercritical hydrothermal method and solid-state method. <i>Chemical Engineering Journal</i> , 2012, 198-199, 318-326.	12.7	46
63	Superior high rate performance of core-shell Li ₄ Ti ₅ O ₁₂ /carbon nanocomposite synthesized by a supercritical alcohol approach. <i>RSC Advances</i> , 2012, 2, 10805.	3.6	46
64	Upgrading low-boiling-fraction fast pyrolysis bio-oil using supercritical alcohol: Understanding alcohol participation, chemical composition, and energy efficiency. <i>Energy Conversion and Management</i> , 2017, 148, 197-209.	9.2	46
65	Small capacity decay of lithium iron phosphate (LiFePO ₄) synthesized continuously in supercritical water: Comparison with solid-state method. <i>Journal of Supercritical Fluids</i> , 2011, 55, 1027-1037.	3.2	44
66	Understanding the effect of biomass-to-solvent ratio on macroalgae (<i>Saccharina japonica</i>) liquefaction in supercritical ethanol. <i>Journal of Supercritical Fluids</i> , 2017, 120, 65-74.	3.2	44
67	Synthesis of MoO ₂ /Mo ₂ C/RGO composite in supercritical fluid and its enhanced cycling stability in Li-ion batteries. <i>Chemical Engineering Journal</i> , 2018, 345, 1-12.	12.7	44
68	Efficient oil recovery from highly stable toxic oily sludge using supercritical water. <i>Fuel</i> , 2019, 235, 460-472.	6.4	44
69	Continuous synthesis of lithium iron phosphate (LiFePO ₄) nanoparticles in supercritical water: Effect of mixing tee. <i>Journal of Supercritical Fluids</i> , 2013, 73, 70-79.	3.2	43
70	Facile synthesis of hierarchical mesoporous Li ₄ Ti ₅ O ₁₂ microspheres in supercritical methanol. <i>Journal of Power Sources</i> , 2013, 244, 164-169.	7.8	42
71	Continuous synthesis of magnetite nanoparticles in supercritical methanol. <i>Materials Letters</i> , 2010, 64, 2197-2200.	2.6	40
72	Synthesis of Li ₄ Ti ₅ O ₁₂ in supercritical water for Li-ion batteries: Reaction mechanism and high-rate performance. <i>Electrochimica Acta</i> , 2012, 78, 623-632.	5.2	40

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73	Bulk Heterojunction Formation between Indium Tin Oxide Nanorods and CuInS ₂ Nanoparticles for Inorganic Thin Film Solar Cell Applications. ACS Applied Materials & Interfaces, 2012, 4, 849-853.	8.0	39
74	One-pot direct conversion of levulinic acid into high-yield valeric acid over a highly stable bimetallic Nb-Cu/Zr-doped porous silica catalyst. Green Chemistry, 2020, 22, 766-787.	9.0	39
75	Morphology of a Poly(imide siloxane) Segmented Copolymer/Silica Hybrid Composite. Macromolecular Rapid Communications, 2002, 23, 544.	3.9	38
76	Techno-economic analysis of bio heavy-oil production from sewage sludge using supercritical and subcritical water. Renewable Energy, 2020, 151, 30-42.	8.9	36
77	Highly Efficient Reductive Catalytic Fractionation of Lignocellulosic Biomass over Extremely Low-Loaded Pd Catalysts. ACS Catalysis, 2020, 10, 12487-12506.	11.2	36
78	Toward high-performance hard carbon as an anode for sodium-ion batteries: Demineralization of biomass as a critical step. Journal of Industrial and Engineering Chemistry, 2020, 91, 317-329.	5.8	36
79	Noncatalytic gasification of isooctane in supercritical water: A Strategy for high-yield hydrogen production. International Journal of Hydrogen Energy, 2011, 36, 3895-3906.	7.1	35
80	The preparation of zeolite NaA membranes on the inner surface of hollow fiber supports. Journal of Membrane Science, 2012, 409-410, 318-328.	8.2	35
81	Effects of solvent participation and controlled product separation on biomass liquefaction: A case study of sewage sludge. Applied Energy, 2018, 218, 402-416.	10.1	35
82	A two-step approach for producing oxygen-free aromatics from lignin using formic acid as a hydrogen source. Chemical Engineering Journal, 2018, 348, 799-810.	12.7	35
83	Synthesis of Monocarboxylic Acids via Direct CO ₂ Conversion over Ni-Zn Intermetallic Catalysts. ACS Catalysis, 2021, 11, 8382-8398.	11.2	35
84	Uniform one-pot anchoring of Fe ₃ O ₄ to defective reduced graphene oxide for enhanced lithium storage. Chemical Engineering Journal, 2017, 317, 890-900.	12.7	34
85	Synergetic effect of copper-plating wastewater as a catalyst for the destruction of acrylonitrile wastewater in supercritical water oxidation. Journal of Hazardous Materials, 2009, 167, 824-829.	12.4	33
86	Hydroiodic acid treated PEDOT:PSS thin film as transparent electrode: an approach towards ITO free organic photovoltaics. RSC Advances, 2015, 5, 52019-52025.	3.6	33
87	Solid-state polymerization and characterization of a copolyamide based on adipic acid, 1,4-butanediamine, and 2,5-furandicarboxylic acid. Journal of Applied Polymer Science, 2016, 133, .	2.6	33
88	Synthesis and lithium storage properties of MoS ₂ nanoparticles prepared using supercritical ethanol. Chemical Engineering Journal, 2016, 285, 517-527.	12.7	33
89	Fractionation of Lignocellulosic Biomass over Core-Shell Ni@Al ₂ O ₃ Catalysts with Formic Acid as a Cocatalyst and Hydrogen Source. ChemSusChem, 2019, 12, 1743-1762.	6.8	33
90	Ultrathin and uniform carbon-layer-coated hierarchically porous LiFePO ₄ microspheres and their electrochemical performance. Journal of Supercritical Fluids, 2016, 116, 164-171.	3.2	32

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91	Synthesis of cobalt nanoparticles in supercritical methanol. <i>Materials Chemistry and Physics</i> , 2010, 124, 140-144.	4.0	31
92	Carbon-coated, hierarchically mesoporous TiO ₂ microparticles as an anode material for lithium and sodium ion batteries. <i>Electrochimica Acta</i> , 2019, 321, 134639.	5.2	31
93	One-Pot, Simultaneous Cell Wall Disruption and Complete Extraction of Astaxanthin from <i>Haematococcus pluvialis</i> at Room Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 13898-13910.	6.7	30
94	RuO ₂ @Ru/H ⁺ zeolite catalyst for high-yield direct conversion of xylose to tetrahydrofurfuryl alcohol. <i>Applied Catalysis B: Environmental</i> , 2021, 291, 120120.	20.2	30
95	Continuous hydrothermal synthesis of HT-LiCoO ₂ in supercritical water. <i>Journal of Supercritical Fluids</i> , 2009, 50, 250-256.	3.2	29
96	The effect of dissolved oxygen on the 1,4-dioxane degradation with TiO ₂ and Au@TiO ₂ photocatalysts. <i>Journal of Hazardous Materials</i> , 2010, 177, 216-221.	12.4	29
97	Hydrothermal gasification of pure and crude glycerol in supercritical water: A comparative study. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 1262-1273.	7.1	29
98	One-pot synthesis of molybdenum disulfide@reduced graphene oxide (MoS ₂ -RGO) composites and their high electrochemical performance as an anode in lithium ion batteries. <i>Journal of Supercritical Fluids</i> , 2017, 127, 81-89.	3.2	29
99	A centrifugation-first approach for recovering high-yield bio-oil with high calorific values in biomass liquefaction: A case study of sewage sludge. <i>Fuel</i> , 2020, 262, 116628.	6.4	29
100	A new strategy for ultralow biofouling membranes: Uniform and ultrathin hydrophilic coatings using liquid carbon dioxide. <i>Journal of Membrane Science</i> , 2013, 440, 88-97.	8.2	28
101	A supercritical ethanol route for one-pot synthesis of tin sulfide@reduced graphene oxides and their anode performance for lithium ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 59, 160-168.	5.8	28
102	Excellent aging stability of upgraded fast pyrolysis bio-oil in supercritical ethanol. <i>Fuel</i> , 2018, 232, 610-619.	6.4	28
103	Magnetic core@shell nanocatalysts: promising versatile catalysts for organic and photocatalytic reactions. <i>Catalysis Reviews - Science and Engineering</i> , 2020, 62, 163-311.	12.9	28
104	Liquid carbon dioxide-based coating of a uniform carbon layer on hierarchical porous MoO ₃ microspheres and assessment of their electrochemical performance. <i>Chemical Engineering Journal</i> , 2016, 290, 335-345.	12.7	27
105	One-pot route for uniform anchoring of TiO ₂ nanoparticles on reduced graphene oxides and their anode performance for lithium-ion batteries. <i>Journal of Supercritical Fluids</i> , 2017, 125, 66-78.	3.2	27
106	Uniform and ultrathin carbon-layer coated layered Na ₂ Ti ₃ O ₇ and tunnel Na ₂ Ti ₆ O ₁₃ hybrid with enhanced electrochemical performance for anodes in sodium ion batteries. <i>Journal of Supercritical Fluids</i> , 2019, 148, 116-129.	3.2	27
107	One-pot synthesis of Bi-reduced graphene oxide composite using supercritical acetone as anode for Na-ion batteries. <i>Chemical Engineering Journal</i> , 2020, 387, 124111.	12.7	27
108	Spectroscopic analysis of poly(bisphenol A carbonate) using high resolution ¹³ C and ¹ H NMR. <i>Polymer</i> , 2008, 49, 394-404.	3.8	26

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109	Supercritical Carbon Dioxide-Assisted Process for Well-Dispersed Silicon/Graphene Composite as a Li ion Battery Anode. <i>Scientific Reports</i> , 2016, 6, 32011.	3.3	26
110	High-yield bio-oil production from macroalgae (<i>Saccharina japonica</i>) in supercritical ethanol and its combustion behavior. <i>Chemical Engineering Journal</i> , 2017, 327, 79-90.	12.7	26
111	Dissolution rate improvement of valsartan by low temperature recrystallization in compressed CO ₂ : Prevention of excessive agglomeration. <i>Journal of Supercritical Fluids</i> , 2011, 59, 117-123.	3.2	25
112	Synthesis of Li ₄ Ti ₅ O ₁₂ /carbon nanocomposites in supercritical methanol for anode in Li-ion batteries: Effect of surface modifiers. <i>Journal of Supercritical Fluids</i> , 2015, 101, 72-80.	3.2	25
113	Efficient renewable fuel production from sewage sludge using a supercritical fluid route. <i>Fuel</i> , 2017, 200, 146-152.	6.4	25
114	Effective vacuum residue upgrading using sacrificial nickel(II) dimethylglyoxime complex in supercritical methanol. <i>Applied Catalysis A: General</i> , 2017, 545, 148-158.	4.3	25
115	Surface Properties of Poly[2-(perfluorooctyl)ethyl acrylate] Deposited from Liquid CO ₂ High-Pressure Free Meniscus Coating. <i>Macromolecules</i> , 2007, 40, 588-597.	4.8	24
116	Continuous synthesis of lithium iron phosphate nanoparticles in supercritical water: Effect of process parameters. <i>Chemical Engineering Journal</i> , 2013, 229, 313-323.	12.7	24
117	Removal of naphthenic acids from high acid crude via esterification with methanol. <i>Fuel Processing Technology</i> , 2017, 165, 123-130.	7.2	24
118	Electro-hydrodynamic behavior and interface instability of double emulsion droplets under high electric field. <i>Journal of Electrostatics</i> , 2017, 85, 11-22.	1.9	24
119	Effect of KOH on the continuous synthesis of cobalt oxide and manganese oxide nanoparticles in supercritical water. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 4443-4446.	5.8	23
120	Continuous synthesis of Li ₄ Ti ₅ O ₁₂ nanoparticles in supercritical fluids and their electrochemical performance for anode in Li-ion batteries. <i>Chemical Engineering Journal</i> , 2014, 258, 357-366.	12.7	23
121	Effect of supercritical carbon dioxide on the enzymatic production of biodiesel from waste animal fat using immobilized <i>Candida antarctica</i> lipase B variant. <i>BMC Biotechnology</i> , 2017, 17, 70.	3.3	23
122	Ultrathin Film Deposition by Liquid CO ₂ Free Meniscus Coating Uniformity and Morphology. <i>Langmuir</i> , 2006, 22, 642-657.	3.5	22
123	Characterization of Palladium (Pd) on Alumina Catalysts Prepared Using Liquid Carbon Dioxide. <i>Journal of Physical Chemistry C</i> , 2008, 112, 10446-10452.	3.1	22
124	Synthesis of CIGS powders: Transition from binary to quaternary crystalline structure. <i>Journal of Alloys and Compounds</i> , 2010, 506, 969-972.	5.5	22
125	Supercritical CO ₂ -purification of waste cooking oil for high-yield diesel-like hydrocarbons via catalytic hydrodeoxygenation. <i>Fuel</i> , 2013, 111, 510-518.	6.4	21
126	A simple, one-pot synthesis of molybdenum oxide-reduced graphene oxide composites in supercritical methanol and their electrochemical performance. <i>RSC Advances</i> , 2016, 6, 108298-108309.	3.6	21

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127	Revealing the Sodium Storage Mechanism in High-Temperature-Synthesized Silicon Oxycarbides. <i>Chemistry of Materials</i> , 2020, 32, 410-423.	6.7	21
128	Liquid carbon dioxide coating of CdS quantum-dots on mesoporous TiO ₂ film for sensitized solar cell applications. <i>Journal of Supercritical Fluids</i> , 2012, 70, 40-47.	3.2	20
129	Effects of Surface Area of Titanium Dioxide Precursors on the Hydrothermal Synthesis of Barium Titanate by Dissolution-Precipitation. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 13370-13376.	3.7	20
130	Low-temperature, Selective Catalytic Deoxygenation of Vegetable Oil in Supercritical Fluid Media. <i>ChemSusChem</i> , 2014, 7, 492-500.	6.8	20
131	A non-catalytic, supercritical methanol route for effective deacidification of naphthenic acids. <i>Fuel</i> , 2016, 182, 650-659.	6.4	20
132	Thermal stability and decomposition behavior of HFO-1234ze(E) as a working fluid in the supercritical organic Rankine cycle. <i>Journal of Supercritical Fluids</i> , 2019, 154, 104602.	3.2	20
133	Understanding lithium, sodium, and potassium storage mechanisms in silicon oxycarbide. <i>Chemical Engineering Journal</i> , 2022, 428, 131072.	12.7	20
134	Solid-State Polymerization of Semiaromatic Copolyamides of Nylon-4,T and Nylon-4,6: Composition Ratio Effect and Thermal Properties. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 15801-15810.	3.7	19
135	Effect of Solvents on De-Cross-Linking of Cross-Linked Polyethylene under Subcritical and Supercritical Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 6633-6638.	3.7	19
136	Unraveling the role of cobalt in the direct conversion of CO ₂ to high-yield liquid fuels and lube base oil. <i>Applied Catalysis B: Environmental</i> , 2022, 305, 121041.	20.2	19
137	Supported Pd Catalyst Preparation Using Liquid Carbon Dioxide. <i>Chemistry of Materials</i> , 2006, 18, 4710-4712.	6.7	18
138	Characterization of Pd/Al ₂ O ₃ Catalysts Prepared Using [Pd(hfac) ₂] in Liquid CO ₂ . <i>Topics in Catalysis</i> , 2008, 49, 178-186.	2.8	18
139	Complex Effects of the Sweep Fluid on Solid-State Polymerization: Poly(bisphenol A carbonate) in Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2009, 42, 2472-2479.	4.8	18
140	Process modeling and economic analysis for bio-heavy-oil production from sewage sludge using supercritical ethanol and methanol. <i>Journal of Supercritical Fluids</i> , 2019, 150, 137-146.	3.2	18
141	Density Functional Theory Investigation of the Conversion of 5-(Hydroxymethyl)furfural into 2,5-Dimethylfuran over the Pd(111), Cu(111), and Cu ₃ Pd(111) Surfaces. <i>Journal of Physical Chemistry C</i> , 2021, 125, 10295-10317.	3.1	18
142	One-pot conversion of lignocellulosic biomass to ketones and aromatics over a multifunctional Cu-Ru/ZSM-5 catalyst. <i>Applied Catalysis B: Environmental</i> , 2022, 312, 121368.	20.2	18
143	Simultaneous carbon capture and nitrogen removal during supercritical water oxidation. <i>Journal of Supercritical Fluids</i> , 2012, 72, 120-124.	3.2	17
144	Toward uniform and ultrathin carbon layer coating on lithium iron phosphate using liquid carbon dioxide for enhanced electrochemical performance. <i>Journal of Power Sources</i> , 2014, 262, 219-223.	7.8	17

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