

Jaehoon Kim

List of Publications by Year in descending order

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214
papers

8,664
citations

36691

53
h-index

73587

79
g-index

216
all docs

216
docs citations

216
times ranked

10315
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding lithium, sodium, and potassium storage mechanisms in silicon oxycarbide. <i>Chemical Engineering Journal</i> , 2022, 428, 131072.	6.6	20
2	Toad egg-like bismuth nanoparticles encapsulated in an N-doped carbon microrod via supercritical acetone as anodes in lithium-ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 106, 128-141.	2.9	7
3	High-yield synthesis of BTEX over Na ⁺ FeAlO _x /Zn ⁺ HZSM-5@SiO ₂ by direct CO ₂ conversion and identification of surface intermediates. <i>Applied Catalysis B: Environmental</i> , 2022, 301, 120813.	10.8	17
4	Strategy for high-yield astaxanthin recovery directly from wet <i>Haematococcus pluvialis</i> without pretreatment. <i>Bioresource Technology</i> , 2022, 346, 126616.	4.8	5
5	High-energy-density carbon-coated bismuth nanodots on hierarchically porous molybdenum carbide for superior lithium storage. <i>Chemical Engineering Journal</i> , 2022, 432, 134276.	6.6	7
6	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.	10.8	19
7	High-yield recovery of highly bioactive compounds from red ginseng marc using subcritical water extraction. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 109, 547-558.	2.9	4
8	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.	10.8	18
9	Strategy to enhance the electrochemical performance of silicon oxycarbide as anodes in sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2022, 438, 135411.	6.6	4
10	Total chemocatalytic cascade conversion of lignocellulosic biomass into biochemicals. <i>Applied Catalysis B: Environmental</i> , 2022, 310, 121280.	10.8	16
11	One-pot, cascade conversion of cellulose to Î ³ -valerolactone over a multifunctional Ru ⁺ Cu/zeolite-Y catalyst in supercritical methanol. <i>Applied Catalysis B: Environmental</i> , 2022, 314, 121466.	10.8	10
12	New strategy for increasing sodium-ion uptake in silicon oxycarbides. <i>Chemical Engineering Journal</i> , 2021, 404, 126520.	6.6	14
13	Enhanced heat transfer in a refrigerated container using an airflow optimized refrigeration unit. <i>International Journal of Refrigeration</i> , 2021, 131, 723-736.	1.8	6
14	High-Yield Production of Deoxygenated Monomers from Kraft Lignin over ZnO-Co/N-CNTs in Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3232-3245.	3.2	12
15	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.	5.5	61
16	Material stability assessment of R-1234ze(E) as a working fluid for supercritical organic Rankine cycle. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 96, 169-182.	2.9	3
17	Complete drying and micronization of ecamsule using supercritical CO ₂ as the antisolvent. <i>Journal of Supercritical Fluids</i> , 2021, 170, 105157.	1.6	8
18	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.	1.5	18

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19	Controlling intercalation sites of hard carbon for enhancing Na and K storage performance. <i>Chemical Engineering Journal</i> , 2021, 411, 128490.	6.6	57
20	Synthesis of Monocarboxylic Acids via Direct CO ₂ Conversion over Ni-Zn Intermetallic Catalysts. <i>ACS Catalysis</i> , 2021, 11, 8382-8398.	5.5	35
21	Cerium chloride-assisted subcritical water carbonization for fabrication of high-performance cathodes for lithium-ion capacitors. <i>Journal of Applied Electrochemistry</i> , 2021, 51, 1449-1462.	1.5	2
22	RuO ₂ /H ⁺ zeolite catalyst for high-yield direct conversion of xylose to tetrahydrofurfuryl alcohol. <i>Applied Catalysis B: Environmental</i> , 2021, 291, 120120.	10.8	30
23	Magnetic core-shell nanocatalysts: promising versatile catalysts for organic and photocatalytic reactions. <i>Catalysis Reviews - Science and Engineering</i> , 2020, 62, 163-311.	5.7	28
24	Techno-economic analysis of bio heavy-oil production from sewage sludge using supercritical and subcritical water. <i>Renewable Energy</i> , 2020, 151, 30-42.	4.3	36
25	Facile synthesis of high-performance LiFePO ₄ -reduced graphene oxide composites using ball milling. <i>Ionics</i> , 2020, 26, 2803-2812.	1.2	4
26	One-pot direct conversion of levulinic acid into high-yield valeric acid over a highly stable bimetallic Nb-Cu/Zr-doped porous silica catalyst. <i>Green Chemistry</i> , 2020, 22, 766-787.	4.6	39
27	Comprehensive study on the formation mechanism of highly bioactive compounds from <i>Allium hookeri</i> root using subcritical water and their antioxidant and anticancer effects. <i>Journal of Supercritical Fluids</i> , 2020, 157, 104709.	1.6	13
28	Revealing the Sodium Storage Mechanism in High-Temperature-Synthesized Silicon Oxycarbides. <i>Chemistry of Materials</i> , 2020, 32, 410-423.	3.2	21
29	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.	6.6	88
30	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.	3.4	29
31	Aging stability of bio-oil produced from dewatered sewage sludge in subcritical water. <i>Journal of Supercritical Fluids</i> , 2020, 166, 105011.	1.6	1
32	Highly Efficient Reductive Catalytic Fractionation of Lignocellulosic Biomass over Extremely Low-Loaded Pd Catalysts. <i>ACS Catalysis</i> , 2020, 10, 12487-12506.	5.5	36
33	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.	5.5	81
34	Thermal stability study of HFO-1234ze(E) for supercritical organic Rankine cycle: Chemical kinetic model approach through decomposition experiments. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 90, 244-250.	2.9	12
35	Toward high-performance hard carbon as an anode for sodium-ion batteries: Demineralization of biomass as a critical step. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 91, 317-329.	2.9	36
36	Intercalation Mechanisms: Revealing the Intercalation Mechanisms of Lithium, Sodium, and Potassium in Hard Carbon (<i>Adv. Energy Mater.</i> 20/2020). <i>Advanced Energy Materials</i> , 2020, 10, 2070093.	10.2	2

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37	Ultrafast and complete drying of ecamsule solution using supercritical carbon dioxide with fluctuating pressure technique. <i>Journal of Supercritical Fluids</i> , 2020, 160, 104795.	1.6	3
38	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.	6.6	27
39	Revealing the Intercalation Mechanisms of Lithium, Sodium, and Potassium in Hard Carbon. <i>Advanced Energy Materials</i> , 2020, 10, 2000283.	10.2	175
40	Efficient oil recovery from highly stable toxic oily sludge using supercritical water. <i>Fuel</i> , 2019, 235, 460-472.	3.4	44
41	Carbon-coated, hierarchically mesoporous TiO ₂ microparticles as an anode material for lithium and sodium ion batteries. <i>Electrochimica Acta</i> , 2019, 321, 134639.	2.6	31
42	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.	3.2	30
43	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.	1.6	20
44	Safe and Complete Extraction of Astaxanthin from <i>Haematococcus pluvialis</i> by Efficient Mechanical Disruption of Cyst Cell Wall. <i>International Journal of Food Engineering</i> , 2019, 15, .	0.7	10
45	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.	4.6	72
46	Fractionation of Lignocellulosic Biomass over Core-Shell Ni@Al ₂ O ₃ Catalysts with Formic Acid as a Cocatalyst and Hydrogen Source. <i>ChemSusChem</i> , 2019, 12, 1743-1762.	3.6	33
47	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.	4.0	59
48	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.	1.6	18
49	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.	1.6	27
50	Revealing sodium ion storage mechanism in hard carbon. <i>Carbon</i> , 2019, 145, 67-81.	5.4	185
51	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.	10.8	58
52	Solvent effect on the enzymatic production of biodiesel from waste animal fat. <i>Journal of Cleaner Production</i> , 2018, 185, 382-388.	4.6	58
53	Epoxidized Natural Rubber/Chitosan Network Binder for Silicon Anode in Lithium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 16449-16457.	4.0	121
54	Silicon oxycarbide produced from silicone oil for high-performance anode material in sodium ion batteries. <i>Chemical Engineering Journal</i> , 2018, 338, 126-136.	6.6	71

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55	Conversion of petroleum emulsion into light fraction-rich upgraded oil in supercritical methanol. <i>Fuel</i> , 2018, 218, 78-88.	3.4	10
56	Understanding the relationship between the structure and depolymerization behavior of lignin. <i>Fuel</i> , 2018, 217, 202-210.	3.4	59
57	Enhanced Lithium Storage Capacity of a Tetralithium 1,2,4,5-Benzenetetracarboxylate ($\text{Li}_4\text{C}_{10}\text{H}_2\text{O}_8$) Salt Through Crystal Structure Transformation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 17183-17194.	4.0	10
58	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.	6.6	44
59	Effects of solvent participation and controlled product separation on biomass liquefaction: A case study of sewage sludge. <i>Applied Energy</i> , 2018, 218, 402-416.	5.1	35
60	Supercritical methanol as an effective medium for producing asphaltene-free light fraction oil from vacuum residue. <i>Journal of Supercritical Fluids</i> , 2018, 133, 184-194.	1.6	12
61	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.	2.9	28
62	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.	4.0	64
63	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.	4.6	47
64	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.	2.9	50
65	Excellent aging stability of upgraded fast pyrolysis bio-oil in supercritical ethanol. <i>Fuel</i> , 2018, 232, 610-619.	3.4	28
66	A two-step approach for producing oxygen-free aromatics from lignin using formic acid as a hydrogen source. <i>Chemical Engineering Journal</i> , 2018, 348, 799-810.	6.6	35
67	Ga-doped Cu/H-nanozeolite-Y catalyst for selective hydrogenation and hydrodeoxygenation of lignin-derived chemicals. <i>Green Chemistry</i> , 2018, 20, 3253-3270.	4.6	60
68	Reduced graphene oxide as a stable and high-capacity cathode material for Na-ion batteries. <i>Scientific Reports</i> , 2017, 7, 40910.	1.6	49
69	Uniform one-pot anchoring of Fe ₃ O ₄ to defective reduced graphene oxide for enhanced lithium storage. <i>Chemical Engineering Journal</i> , 2017, 317, 890-900.	6.6	34
70	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.	6.6	69
71	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.	1.6	27
72	Conformal carbon layer coating on well-dispersed Si nanoparticles on graphene oxide and the enhanced electrochemical performance. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 52, 260-269.	2.9	13

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73	Simultaneous breaking and conversion of petroleum emulsions into synthetic crude oil with low impurities. <i>Fuel</i> , 2017, 199, 135-144.	3.4	14
74	New liquid carbon dioxide based strategy for high energy/power density LiFePO ₄ . <i>Nano Energy</i> , 2017, 36, 398-410.	8.2	49
75	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.	6.6	26
76	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.	4.4	46
77	Removal of naphthenic acids from high acid crude via esterification with methanol. <i>Fuel Processing Technology</i> , 2017, 165, 123-130.	3.7	24
78	Surface-termination dependence of propanoic acid deoxygenation on Mo ₂ C. <i>Catalysis Communications</i> , 2017, 99, 61-65.	1.6	10
79	Direct one-pot conversion of monosaccharides into high-yield 2,5-dimethylfuran over a multifunctional Pd/Zr-based metal-organic framework@ulfonated graphene oxide catalyst. <i>Green Chemistry</i> , 2017, 19, 2482-2490.	4.6	97
80	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.	4.6	62
81	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.	1.6	29
82	Efficient renewable fuel production from sewage sludge using a supercritical fluid route. <i>Fuel</i> , 2017, 200, 146-152.	3.4	25
83	Effect of compressed liquid CO ₂ antisolvent treatment on the synthesis of hierarchically porous nanocarbon from kraft lignin. <i>Journal of Supercritical Fluids</i> , 2017, 123, 1-10.	1.6	3
84	Electro-hydrodynamic behavior and interface instability of double emulsion droplets under high electric field. <i>Journal of Electrostatics</i> , 2017, 85, 11-22.	1.0	24
85	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.	4.5	54
86	Upgrading Heavy Crude Oils and Extra Heavy Fractions in Supercritical Methanol. <i>Energy & Fuels</i> , 2017, 31, 12054-12063.	2.5	15
87	Effective conversion of the carbohydrate-rich macroalgae (<i>Saccharina japonica</i>) into bio-oil using low-temperature supercritical methanol. <i>Energy Conversion and Management</i> , 2017, 151, 357-367.	4.4	12
88	Effective vacuum residue upgrading using sacrificial nickel(II) dimethylglyoxime complex in supercritical methanol. <i>Applied Catalysis A: General</i> , 2017, 545, 148-158.	2.2	25
89	A supercritical methanol route for the synthesis of sodium iron oxide submicron plates for use as a cathode material for sodium-ion batteries. <i>Materials Letters</i> , 2017, 206, 100-104.	1.3	4
90	A non-catalytic, supercritical methanol route for producing high-yield saturated and aromatic compounds from de-oiled asphaltenes. <i>Journal of Supercritical Fluids</i> , 2017, 120, 140-150.	1.6	16

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91	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.	1.6	44
92	Liquid CO ₂ -based coating for dense CuIn _x Ga _{1-x} S ₂ film fabrication. <i>Journal of Supercritical Fluids</i> , 2017, 120, 453-459.	1.6	2
93	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.	1.7	23
94	Solid-state polymerization and characterization of a copolyamide based on adipic acid, 1,4-butanediamine, and 2,5-furandicarboxylic acid. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	33
95	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.	5.1	91
96	Influence of External Pressure on the Performance of Quantum Dot Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23947-23952.	4.0	3
97	A non-catalytic, supercritical methanol route for effective deacidification of naphthenic acids. <i>Fuel</i> , 2016, 182, 650-659.	3.4	20
98	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.	1.7	21
99	Supercritical Carbon Dioxide-Assisted Process for Well-Dispersed Silicon/Graphene Composite as a Li Ion Battery Anode. <i>Scientific Reports</i> , 2016, 6, 32011.	1.6	26
100	Ultrathin and uniform carbon-layer-coated hierarchically porous LiFePO ₄ microspheres and their electrochemical performance. <i>Journal of Supercritical Fluids</i> , 2016, 116, 164-171.	1.6	32
101	High-yield and high-calorific bio-oil production from concentrated sulfuric acid hydrolysis lignin in supercritical ethanol. <i>Fuel</i> , 2016, 172, 238-247.	3.4	93
102	Liquid carbon dioxide-based coating of a uniform carbon layer on hierarchical porous MoO ₂ microspheres and assessment of their electrochemical performance. <i>Chemical Engineering Journal</i> , 2016, 290, 335-345.	6.6	27
103	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.	4.0	89
104	Cross-Linked Chitosan as an Efficient Binder for Si Anode of Li-ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2658-2665.	4.0	195
105	Hydrogen-enriched porous carbon nanosheets with high sodium storage capacity. <i>Carbon</i> , 2016, 98, 213-220.	5.4	74
106	Synthesis and lithium storage properties of MoS ₂ nanoparticles prepared using supercritical ethanol. <i>Chemical Engineering Journal</i> , 2016, 285, 517-527.	6.6	33
107	A One-Pot Route for Uniform Deposition of Metal Oxide and Metal Sulfide Nanoparticles on Reduced Graphene Oxide Using Supercritical Alcohols. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	1
108	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.	6.6	60

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109	Liquefaction of major lignocellulosic biomass constituents in supercritical ethanol. <i>Energy</i> , 2015, 80, 64-74.	4.5	101
110	Production of aromatic compounds from oil palm empty fruit bunches by hydro- and solvothermolysis. <i>Industrial Crops and Products</i> , 2015, 76, 104-111.	2.5	10
111	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.	4.0	86
112	Hydroiodic acid treated PEDOT:PSS thin film as transparent electrode: an approach towards ITO free organic photovoltaics. <i>RSC Advances</i> , 2015, 5, 52019-52025.	1.7	33
113	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.	1.6	25
114	Mo ₂ C/Graphene Nanocomposite As a Hydrodeoxygenation Catalyst for the Production of Diesel Range Hydrocarbons. <i>ACS Catalysis</i> , 2015, 5, 3292-3303.	5.5	71
115	Hydrogen-Enriched Reduced Graphene Oxide with Enhanced Electrochemical Performance in Lithium Ion Batteries. <i>Chemistry of Materials</i> , 2015, 27, 266-275.	3.2	53
116	Supercritical Water Gasification for Hydrogen Production. , 2014, , 111-137.		9
117	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.	2.7	56
118	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.	2.9	23
119	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.	5.1	110
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.	6.6	23
121	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.	1.5	57
122	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.	4.0	17
123	Uniform deposition of ternary chalcogenide nanoparticles onto mesoporous TiO ₂ film using liquid carbon dioxide-based coating. <i>Thin Solid Films</i> , 2014, 565, 122-127.	0.8	4
124	Low-temperature, Selective Catalytic Deoxygenation of Vegetable Oil in Supercritical Fluid Media. <i>ChemSusChem</i> , 2014, 7, 492-500.	3.6	20
125	SYNTHESIS OF HYDROUS RUTHENIUM OXIDE NANOPARTICLES IN SUB- AND SUPERCRITICAL WATER AND THEIR CAPACITIVE PROPERTIES. <i>Chemical Engineering Communications</i> , 2014, 201, 1259-1269.	1.5	2
126	Effect of heating rate on biomass liquefaction: Differences between subcritical water and supercritical ethanol. <i>Energy</i> , 2014, 68, 420-427.	4.5	166

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127	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.	6.6	48
128	Hydrothermal gasification of pure and crude glycerol in supercritical water: A comparative study. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 1262-1273.	3.8	29
129	Continuous synthesis of lithium iron phosphate nanoparticles in supercritical water: Effect of process parameters. <i>Chemical Engineering Journal</i> , 2013, 229, 313-323.	6.6	24
130	Supercritical alcohols as solvents and reducing agents for the synthesis of reduced graphene oxide. <i>Carbon</i> , 2013, 64, 207-218.	5.4	86
131	Supercritical CO ₂ -purification of waste cooking oil for high-yield diesel-like hydrocarbons via catalytic hydrodeoxygenation. <i>Fuel</i> , 2013, 111, 510-518.	3.4	21
132	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.	4.0	42
133	Theoretical Investigation of the Adsorption and C-C Bond Scission of CCH ₃ on the (111) and (100) Surfaces of Pd: Comparison with Pt. <i>Journal of Physical Chemistry C</i> , 2013, 117, 18131-18138.	1.5	8
134	Supercritical ethanol as an enhanced medium for lignocellulosic biomass liquefaction: Influence of physical process parameters. <i>Energy</i> , 2013, 59, 173-182.	4.5	167
135	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.	1.6	43
136	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.	4.1	28
137	Water splitting for hydrogen production using a high surface area RuO ₂ electrocatalyst synthesized in supercritical water. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 6092-6096.	3.8	12
138	Production of renewable diesel by hydrotreatment of soybean oil: Effect of reaction parameters. <i>Chemical Engineering Journal</i> , 2013, 228, 114-123.	6.6	87
139	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.	1.8	19
140	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.	1.8	20
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