

Jaehoon Kim

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/568898/publications.pdf>

Version: 2024-02-01

214
papers

8,664
citations

31976

53
h-index

64796

79
g-index

216
all docs

216
docs citations

216
times ranked

9105
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding lithium, sodium, and potassium storage mechanisms in silicon oxycarbide. <i>Chemical Engineering Journal</i> , 2022, 428, 131072.	12.7	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.	5.8	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.	20.2	17
4	Strategy for high-yield astaxanthin recovery directly from wet <i>Haematococcus pluvialis</i> without pretreatment. <i>Bioresource Technology</i> , 2022, 346, 126616.	9.6	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.	12.7	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.	20.2	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.	5.8	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.	20.2	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.	12.7	4
10	Total chemocatalytic cascade conversion of lignocellulosic biomass into biochemicals. <i>Applied Catalysis B: Environmental</i> , 2022, 310, 121280.	20.2	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.	20.2	10
12	New strategy for increasing sodium-ion uptake in silicon oxycarbides. <i>Chemical Engineering Journal</i> , 2021, 404, 126520.	12.7	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.	3.4	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.	6.7	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.	11.2	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.	5.8	3
17	Complete drying and micronization of ecamsule using supercritical CO ₂ as the antisolvent. <i>Journal of Supercritical Fluids</i> , 2021, 170, 105157.	3.2	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.	3.1	18

#	ARTICLE	IF	CITATIONS
19	Controlling intercalation sites of hard carbon for enhancing Na and K storage performance. <i>Chemical Engineering Journal</i> , 2021, 411, 128490.	12.7	57
20	Synthesis of Monocarboxylic Acids via Direct CO ₂ Conversion over Ni-Zn Intermetallic Catalysts. <i>ACS Catalysis</i> , 2021, 11, 8382-8398.	11.2	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.	2.9	2
22	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
23	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
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.	8.9	36
25	Facile synthesis of high-performance LiFePO ₄ -reduced graphene oxide composites using ball milling. <i>Ionics</i> , 2020, 26, 2803-2812.	2.4	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.	9.0	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.	3.2	13
28	Revealing the Sodium Storage Mechanism in High-Temperature-Synthesized Silicon Oxycarbides. <i>Chemistry of Materials</i> , 2020, 32, 410-423.	6.7	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.	12.7	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.	6.4	29
31	Aging stability of bio-oil produced from dewatered sewage sludge in subcritical water. <i>Journal of Supercritical Fluids</i> , 2020, 166, 105011.	3.2	1
32	Highly Efficient Reductive Catalytic Fractionation of Lignocellulosic Biomass over Extremely Low-Loaded Pd Catalysts. <i>ACS Catalysis</i> , 2020, 10, 12487-12506.	11.2	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.	11.2	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.	5.8	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.	5.8	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.	19.5	2

#	ARTICLE	IF	CITATIONS
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.	3.2	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.	12.7	27
39	Revealing the Intercalation Mechanisms of Lithium, Sodium, and Potassium in Hard Carbon. <i>Advanced Energy Materials</i> , 2020, 10, 2000283.	19.5	175
40	Efficient oil recovery from highly stable toxic oily sludge using supercritical water. <i>Fuel</i> , 2019, 235, 460-472.	6.4	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.	5.2	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.	6.7	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.	3.2	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, .	1.5	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.	9.0	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.	6.8	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.	7.8	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.	3.2	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.	3.2	27
50	Revealing sodium ion storage mechanism in hard carbon. <i>Carbon</i> , 2019, 145, 67-81.	10.3	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.	20.2	58
52	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
53	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
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.	12.7	71

#	ARTICLE	IF	CITATIONS
55	Conversion of petroleum emulsion into light fraction-rich upgraded oil in supercritical methanol. Fuel, 2018, 218, 78-88.	6.4	10
56	Understanding the relationship between the structure and depolymerization behavior of lignin. Fuel, 2018, 217, 202-210.	6.4	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. ACS Applied Materials & Interfaces, 2018, 10, 17183-17194.	8.0	10
58	Synthesis of MoO ₂ /Mo ₂ C/RGO composite in supercritical fluid and its enhanced cycling stability in Li-ion batteries. Chemical Engineering Journal, 2018, 345, 1-12.	12.7	44
59	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
60	Supercritical methanol as an effective medium for producing asphaltene-free light fraction oil from vacuum residue. Journal of Supercritical Fluids, 2018, 133, 184-194.	3.2	12
61	A supercritical ethanol route for one-pot synthesis of tin sulfide-reduced graphene oxides and their anode performance for lithium ion batteries. Journal of Industrial and Engineering Chemistry, 2018, 59, 160-168.	5.8	28
62	Carbon with Expanded and Well-Developed Graphene Planes Derived Directly from Condensed Lignin as a High-Performance Anode for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 569-581.	8.0	64
63	Solvothermal liquefaction of alkali lignin to obtain a high yield of aromatic monomers while suppressing solvent consumption. Green Chemistry, 2018, 20, 4957-4974.	9.0	47
64	Water-soluble, lignin-derived carbon dots with high fluorescent emissions and their applications in bioimaging. Journal of Industrial and Engineering Chemistry, 2018, 66, 387-395.	5.8	50
65	Excellent aging stability of upgraded fast pyrolysis bio-oil in supercritical ethanol. Fuel, 2018, 232, 610-619.	6.4	28
66	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
67	Ga-doped Cu/H-nanozeolite-Y catalyst for selective hydrogenation and hydrodeoxygenation of lignin-derived chemicals. Green Chemistry, 2018, 20, 3253-3270.	9.0	60
68	Reduced graphene oxide as a stable and high-capacity cathode material for Na-ion batteries. Scientific Reports, 2017, 7, 40910.	3.3	49
69	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
70	Depolymerization of concentrated sulfuric acid hydrolysis lignin to high-yield aromatic monomers in basic sub- and supercritical fluids. Chemical Engineering Journal, 2017, 317, 9-19.	12.7	69
71	One-pot route for uniform anchoring of TiO ₂ nanoparticles on reduced graphene oxides and their anode performance for lithium-ion batteries. Journal of Supercritical Fluids, 2017, 125, 66-78.	3.2	27
72	Conformal carbon layer coating on well-dispersed Si nanoparticles on graphene oxide and the enhanced electrochemical performance. Journal of Industrial and Engineering Chemistry, 2017, 52, 260-269.	5.8	13

#	ARTICLE	IF	CITATIONS
73	Simultaneous breaking and conversion of petroleum emulsions into synthetic crude oil with low impurities. <i>Fuel</i> , 2017, 199, 135-144.	6.4	14
74	New liquid carbon dioxide based strategy for high energy/power density LiFePO ₄ . <i>Nano Energy</i> , 2017, 36, 398-410.	16.0	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.	12.7	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.	9.2	46
77	Removal of naphthenic acids from high acid crude via esterification with methanol. <i>Fuel Processing Technology</i> , 2017, 165, 123-130.	7.2	24
78	Surface-termination dependence of propanoic acid deoxygenation on Mo ₂ C. <i>Catalysis Communications</i> , 2017, 99, 61-65.	3.3	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.	9.0	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.	9.0	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.	3.2	29
82	Efficient renewable fuel production from sewage sludge using a supercritical fluid route. <i>Fuel</i> , 2017, 200, 146-152.	6.4	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.	3.2	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.	1.9	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.	8.8	54
86	Upgrading Heavy Crude Oils and Extra Heavy Fractions in Supercritical Methanol. <i>Energy & Fuels</i> , 2017, 31, 12054-12063.	5.1	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.	9.2	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.	4.3	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.	2.6	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.	3.2	16

#	ARTICLE	IF	CITATIONS
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.	3.2	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.	3.2	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.	3.3	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, .	2.6	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.	10.1	91
96	Influence of External Pressure on the Performance of Quantum Dot Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23947-23952.	8.0	3
97	A non-catalytic, supercritical methanol route for effective deacidification of naphthenic acids. <i>Fuel</i> , 2016, 182, 650-659.	6.4	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.	3.6	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.	3.3	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.	3.2	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.	6.4	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.	12.7	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.	7.8	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.	8.0	195
105	Hydrogen-enriched porous carbon nanosheets with high sodium storage capacity. <i>Carbon</i> , 2016, 98, 213-220.	10.3	74
106	Synthesis and lithium storage properties of MoS ₂ nanoparticles prepared using supercritical ethanol. <i>Chemical Engineering Journal</i> , 2016, 285, 517-527.	12.7	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.	12.7	60

#	ARTICLE	IF	CITATIONS
109	Liquefaction of major lignocellulosic biomass constituents in supercritical ethanol. <i>Energy</i> , 2015, 80, 64-74.	8.8	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.	5.2	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.	7.8	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.	3.6	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.	3.2	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.	11.2	71
115	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
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.	5.6	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.	5.8	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.	10.1	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.	12.7	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.	3.1	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.	7.8	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.	1.8	4
124	Low-temperature, Selective Catalytic Deoxygenation of Vegetable Oil in Supercritical Fluid Media. <i>ChemSusChem</i> , 2014, 7, 492-500.	6.8	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.	2.6	2
126	Effect of heating rate on biomass liquefaction: Differences between subcritical water and supercritical ethanol. <i>Energy</i> , 2014, 68, 420-427.	8.8	166

#	ARTICLE	IF	CITATIONS
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.	12.7	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.	7.1	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.	12.7	24
130	Supercritical alcohols as solvents and reducing agents for the synthesis of reduced graphene oxide. <i>Carbon</i> , 2013, 64, 207-218.	10.3	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.	6.4	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.	7.8	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.	3.1	8
134	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
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.	3.2	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.	8.2	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.	7.1	12
138	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
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.	3.7	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.	3.7	20
141	Supercritical-phase-assisted highly selective and active catalytic hydrodechlorination of the ozone-depleting refrigerant CHClF ₂ . <i>Chemical Engineering Journal</i> , 2012, 213, 346-355.	12.7	11
142	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
143	Bulk Heterojunction Formation between Indium Tin Oxide Nanorods and CuInS ₂ Nanoparticles for Inorganic Thin Film Solar Cell Applications. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 849-853.	8.0	39
144	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

#	ARTICLE	IF	CITATIONS
145	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
146	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
147	Solid-State Polymerization of Poly(trimethylene terephthalate): Reaction Kinetics and Prepolymer Molecular Weight Effects. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 2904-2912.	3.7	13
148	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
149	Simultaneous carbon capture and nitrogen removal during supercritical water oxidation. <i>Journal of Supercritical Fluids</i> , 2012, 72, 120-124.	3.2	17
150	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
151	Vegetable oil aided hydrothermal synthesis of cerium oxide nanocrystals. <i>Korean Journal of Chemical Engineering</i> , 2012, 29, 1289-1291.	2.7	4
152	DESIGN OF AN ELECTROLYTIC CELL FOR A MONOLITHIC PHOTOVOLTAIC-ELECTROLYTIC HYDROGEN GENERATION SYSTEM: THE ELECTRODE ASPECTS. <i>Chemical Engineering Communications</i> , 2012, 199, 1063-1071.	2.6	2
153	Continuous synthesis of surface-modified nanoparticles in supercritical methanol: A facile approach to control dispersibility. <i>Chemical Engineering Journal</i> , 2012, 193-194, 146-153.	12.7	10
154	Production of renewable diesel by hydroprocessing of soybean oil: Effect of catalysts. <i>Fuel</i> , 2012, 94, 578-585.	6.4	255
155	The preparation of zeolite NaA membranes on the inner surface of hollow fiber supports. <i>Journal of Membrane Science</i> , 2012, 409-410, 318-328.	8.2	35
156	High-temperature hydrodechlorination of ozone-depleting chlorodifluoromethane (HCFC-22) on supported Pd and Ni catalysts. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2011, 46, 989-996.	1.7	5
157	Facile synthesis of reduced graphene oxide in supercritical alcohols and its lithium storage capacity. <i>Green Chemistry</i> , 2011, 13, 2714.	9.0	75
158	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
159	Continuous synthesis of high-surface-area aluminum hydroxide methoxide nano- and microparticles in supercritical methanol and their conversion into γ -Al ₂ O ₃ . <i>Materials Letters</i> , 2011, 65, 772-774.	2.6	9
160	Size-dependent electrocatalytic activities of printed Co ₃ O ₄ films for a monolithic photovoltaic-electrolytic hydrogen generation system. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 10587-10592.	7.1	7
161	Continuous supercritical hydrothermal synthesis: lithium secondary ion battery applications. <i>Research on Chemical Intermediates</i> , 2011, 37, 429-440.	2.7	16
162	Surface-modified cerium oxide nanoparticles synthesized continuously in supercritical methanol: Study of dispersion stability in ethylene glycol medium. <i>Chemical Engineering Journal</i> , 2011, 168, 1346-1351.	12.7	15

#	ARTICLE	IF	CITATIONS
163	Optical properties and lasing of ZnO nanoparticles synthesized continuously in supercritical fluids. <i>Chemical Physics Letters</i> , 2011, 505, 51-56.	2.6	15
164	Facile synthesis of nanosized Li ₄ Ti ₅ O ₁₂ in supercritical water. <i>Electrochemistry Communications</i> , 2011, 13, 650-653.	4.7	73
165	Printed Co ₃ O ₄ film as an electrocatalyst for hydrogen production by a monolithic photovoltaic-electrolysis system. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 1924-1929.	7.1	7
166	Noncatalytic gasification of isooctane in supercritical water: A Strategy for high-yield hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 3895-3906.	7.1	35
167	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
168	Synthesis of cobalt nanoparticles in supercritical methanol. <i>Materials Chemistry and Physics</i> , 2010, 124, 140-144.	4.0	31
169	Continuous synthesis of magnetite nanoparticles in supercritical methanol. <i>Materials Letters</i> , 2010, 64, 2197-2200.	2.6	40
170	Ring-opening metathesis polymerization of tetracyclododecene using various catalyst systems. <i>Journal of Applied Polymer Science</i> , 2010, 116, 479-485.	2.6	12
171	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
172	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
173	Phase equilibria of palm oil, palm kernel oil, and oleic acid+supercritical carbon dioxide and modeling using Peng-Robinson EOS. <i>Journal of Industrial and Engineering Chemistry</i> , 2010, 16, 859-865.	5.8	15
174	The effect of prepolymer crystallinity on solid-state polymerization of poly(bisphenol A carbonate). <i>Polymer</i> , 2010, 51, 2520-2526.	3.8	7
175	Continuous supercritical water gasification of isooctane: A promising reactor design. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 1957-1970.	7.1	60
176	Continuous synthesis of surface-modified zinc oxide nanoparticles in supercritical methanol. <i>Journal of Supercritical Fluids</i> , 2010, 52, 76-83.	3.2	69
177	Continuous synthesis of metal nanoparticles in supercritical methanol. <i>Journal of Supercritical Fluids</i> , 2010, 52, 285-291.	3.2	59
178	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
179	Synthesis of biodiesel from rapeseed oil using supercritical methanol with metal oxide catalysts. <i>Bioresource Technology</i> , 2010, 101, 8686-8689.	9.6	168
180	Ultrathin Cross-Linked Perfluoropolyether Film Coatings from Liquid CO ₂ and Subsequent UV Curing. <i>Chemistry of Materials</i> , 2010, 22, 2411-2413.	6.7	16

#	ARTICLE	IF	CITATIONS
181	Uniform Decoration of Linker-Free Quantum Dots onto Mesoporous TiO ₂ Using Liquid Carbon Dioxide. <i>Chemistry of Materials</i> , 2010, 22, 4350-4352.	6.7	14
182	Purification of Waste Cooking Oils via Supercritical Carbon Dioxide Extraction. <i>Separation Science and Technology</i> , 2010, 45, 1139-1146.	2.5	9
183	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
184	Deposition of palladium catalyzed copper films by the displacement of two immiscible supercritical phases and subsequent reaction. <i>Journal of Materials Chemistry</i> , 2010, 20, 3973.	6.7	1
185	Metal nanoparticle synthesis using supercritical alcohol. <i>Materials Letters</i> , 2009, 63, 1880-1882.	2.6	58
186	Effects of promoter and moisture on the deactivation of FSO ₃ H catalyst in the synthesis of HFC-152a by hydrofluorination of acetylene. <i>Korean Journal of Chemical Engineering</i> , 2009, 26, 702-704.	2.7	1
187	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
188	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
189	Continuous hydrothermal synthesis of HT-LiCoO ₂ in supercritical water. <i>Journal of Supercritical Fluids</i> , 2009, 50, 250-256.	3.2	29
190	Supercritical water oxidation of wastewater from acrylonitrile manufacturing plant. <i>Journal of Hazardous Materials</i> , 2009, 163, 1142-1147.	12.4	63
191	Synergetic effect of copper-plating wastewater as a catalyst for the destruction of acrylonitrile wastewater in supercritical water oxidation. <i>Journal of Hazardous Materials</i> , 2009, 167, 824-829.	12.4	33
192	Continuous catalytic hydrodechlorination of polychlorinated biphenyls (PCBs) in transformer oil. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2009, 44, 1538-1544.	1.7	5
193	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
194	Deposition of Copper Particles and Films by the Displacement of Two Immiscible Supercritical Phases and Subsequent Reaction. <i>Chemistry of Materials</i> , 2009, 21, 913-924.	6.7	6
195	Recycling of transformer oil contaminated by polychlorinated biphenyls (PCBs) using catalytic hydrodechlorination. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2009, 44, 494-501.	1.7	10
196	Selective caffeine removal from green tea using supercritical carbon dioxide extraction. <i>Journal of Food Engineering</i> , 2008, 89, 303-309.	5.2	111
197	A new correlation to predict the stability of liquid jet in dense carbon dioxide. <i>Journal of Industrial and Engineering Chemistry</i> , 2008, 14, 824-829.	5.8	2
198	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

#	ARTICLE	IF	CITATIONS
199	Effect of prepolymer molecular weight on solid state polymerization of poly(bisphenol a carbonate) with nitrogen as a sweep fluid. Journal of Polymer Science Part A, 2008, 46, 4959-4969.	2.3	16
200	Spectroscopic analysis of poly(bisphenol A carbonate) using high resolution 13C and 1H NMR. Polymer, 2008, 49, 394-404.	3.8	26
201	Characterization of Palladium (Pd) on Alumina Catalysts Prepared Using Liquid Carbon Dioxide. Journal of Physical Chemistry C, 2008, 112, 10446-10452.	3.1	22
202	Continuous Synthesis of Surface-Modified Metal Oxide Nanoparticles Using Supercritical Methanol for Highly Stabilized Nanofluids. Chemistry of Materials, 2008, 20, 6301-6303.	6.7	63
203	Hydrogen Production by Gasification of Isooctane Using Supercritical Water. International Journal of Green Energy, 2008, 5, 322-333.	3.8	16
204	Surface Properties of Poly[2-(perfluorooctyl)ethyl acrylate] Deposited from Liquid CO2 High-Pressure Free Meniscus Coating. Macromolecules, 2007, 40, 588-597.	4.8	24
205	Deposition of poly[2-(perfluorooctyl)ethyl acrylate] from liquid CO2 high-pressure free meniscus coating—Uniformity and morphology. Journal of Supercritical Fluids, 2007, 42, 129-141.	3.2	14
206	Deposition of poly[2-(perfluorooctyl)ethyl acrylate] on silicon wafers by the displacement of two immiscible supercritical phases (DISP). Journal of Supercritical Fluids, 2007, 43, 139-149.	3.2	6
207	Supported Pd Catalyst Preparation Using Liquid Carbon Dioxide. Chemistry of Materials, 2006, 18, 4710-4712.	6.7	18
208	Ultrathin Film Deposition by Liquid CO2 Free Meniscus Coating—Uniformity and Morphology. Langmuir, 2006, 22, 642-657.	3.5	22
209	Deposition of Small Organic Molecules by the Displacement of Two Immiscible Supercritical Phases. Langmuir, 2006, 22, 2117-2129.	3.5	10
210	Morphology of a Poly(imide siloxane) Segmented Copolymer/Silica Hybrid Composite. Macromolecular Rapid Communications, 2002, 23, 544.	3.9	38
211	Selective permeation of CO2 through pore-filled polyacrylonitrile membrane with poly(ethylene Tj ETQq1 1 0.784314 rgBT /OVerlock	8.2	53
212	Gas permeation of poly(amide-6-b-ethylene oxide) copolymer. Journal of Membrane Science, 2001, 190, 179-193.	8.2	320
213	Gas permeation properties of poly(amide-6-b-ethylene oxide)—silica hybrid membranes. Journal of Membrane Science, 2001, 193, 209-225.	8.2	385
214	Annealing Effects of Dilute Polyaniline/NMP Solution. Macromolecules, 2000, 33, 7431-7439.	4.8	57