

Youn-Woo Lee

List of Publications by Year in descending order

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113
papers

2,671
citations

218677

26
h-index

223800

46
g-index

115
all docs

115
docs citations

115
times ranked

3010
citing authors

#	ARTICLE	IF	CITATIONS
1	Green materials synthesis with supercritical water. <i>Green Chemistry</i> , 2011, 13, 1380.	9.0	267
2	Synthesis of biodiesel from rapeseed oil using supercritical methanol with metal oxide catalysts. <i>Bioresource Technology</i> , 2010, 101, 8686-8689.	9.6	168
3	One pot synthesis of environmentally friendly lignin nanoparticles with compressed liquid carbon dioxide as an antisolvent. <i>Green Chemistry</i> , 2016, 18, 2129-2146.	9.0	149
4	Transesterification of RBD palm oil using supercritical methanol. <i>Journal of Supercritical Fluids</i> , 2008, 44, 356-363.	3.2	143
5	Nanoparticle formation of lycopene/ β -cyclodextrin inclusion complex using supercritical antisolvent precipitation. <i>Journal of Supercritical Fluids</i> , 2013, 83, 97-103.	3.2	84
6	Catalytic supercritical water oxidation of wastewater from terephthalic acid manufacturing process. <i>Journal of Supercritical Fluids</i> , 2003, 26, 201-213.	3.2	76
7	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
8	Supercritical water oxidation of wastewater from acrylonitrile manufacturing plant. <i>Journal of Hazardous Materials</i> , 2009, 163, 1142-1147.	12.4	63
9	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
10	Hydrothermal synthesis of metal nanoparticles using glycerol as a reducing agent. <i>Journal of Supercritical Fluids</i> , 2014, 90, 53-59.	3.2	58
11	Supercritical water oxidation of wastewater from LCD manufacturing process: kinetic and formation of chromium oxide nanoparticles. <i>Journal of Supercritical Fluids</i> , 2005, 34, 51-61.	3.2	51
12	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
13	Design and Economic Analysis of the Process for Biodiesel Fuel Production from Transesterified Rapeseed Oil Using Supercritical Methanol. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 5370-5378.	3.7	46
14	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
15	Reaction Pathway and Kinetics for Uncatalyzed Partial Oxidation of p-Xylene in Sub- and Supercritical Water. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 5576-5583.	3.7	43
16	A kinetic study of the decross-linking of cross-linked polyethylene in supercritical methanol. <i>Polymer Degradation and Stability</i> , 2008, 93, 2084-2088.	5.8	35
17	Preparation of L-PLA submicron particles by a continuous supercritical antisolvent precipitation process. <i>Korean Journal of Chemical Engineering</i> , 2002, 19, 139-145.	2.7	34
18	Evaluation of hot compressed water pretreatment and enzymatic saccharification of tulip tree sawdust using severity factors. <i>Bioresource Technology</i> , 2013, 144, 460-466.	9.6	34

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19	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
20	Supercritical Antisolvent Micronization of Cyclotrimethylenetrinitramin: Influence of the Organic Solvent. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 11162-11167.	3.7	31
21	Synthesis of cobalt nanoparticles in supercritical methanol. <i>Materials Chemistry and Physics</i> , 2010, 124, 140-144.	4.0	31
22	High-Pressure Phase Behavior of Carbon Dioxide + Heptadecafluorodecyl Acrylate + Poly(heptadecafluorodecyl acrylate) System. <i>Journal of Chemical & Engineering Data</i> , 2006, 51, 1571-1575.	1.9	29
23	Solvent effect on particle morphology in recrystallization of HMX (cyclotetramethylenetetranitramine) using supercritical carbon dioxide as antisolvent. <i>Korean Journal of Chemical Engineering</i> , 2009, 26, 1125-1129.	2.7	29
24	Continuous hydrothermal synthesis of HT-LiCoO ₂ in supercritical water. <i>Journal of Supercritical Fluids</i> , 2009, 50, 250-256.	3.2	29
25	Preparation of submicron-sized RDX particles by rapid expansion of solution using compressed liquid dimethyl ether. <i>Journal of Supercritical Fluids</i> , 2011, 57, 251-258.	3.2	29
26	Tetracycline nanoparticles precipitation using supercritical and liquid CO ₂ as antisolvents. <i>Journal of Supercritical Fluids</i> , 2016, 107, 51-60.	3.2	27
27	Current theoretical opinions and perspectives on the fundamental description of supercritical fluids. <i>Journal of Supercritical Fluids</i> , 2018, 134, 21-27.	3.2	26
28	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
29	Simultaneous synthesis of biodiesel and zinc oxide nanoparticles using supercritical methanol. <i>Fuel</i> , 2013, 109, 279-284.	6.4	25
30	Kinetics of the upgrading of heavy oil in supercritical methanol. <i>Journal of Supercritical Fluids</i> , 2018, 133, 133-138.	3.2	25
31	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
32	Crystallization of acetaminophen micro-particle using supercritical carbon dioxide. <i>Korean Journal of Chemical Engineering</i> , 2006, 23, 482-487.	2.7	22
33	Simultaneous recovery of chromium and destruction of organics from LCD manufacturing process wastewater by supercritical water oxidation. <i>Journal of Cleaner Production</i> , 2007, 15, 972-978.	9.3	22
34	Inactivation of <i>Pseudomonas aeruginosa</i> biofilm by dense phase carbon dioxide. <i>Biofouling</i> , 2009, 25, 473-479.	2.2	22
35	Preparation of cefpodoxime proxetil fine particles using supercritical fluids. <i>International Journal of Pharmaceutics</i> , 2009, 369, 85-91.	5.2	20
36	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

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37	Effects of dye particle size and dissolution rate on the overall dye uptake in supercritical dyeing process. <i>Journal of Supercritical Fluids</i> , 2019, 151, 1-7.	3.2	20
38	Feasibility of unsaturated fatty acid feedstocks as green alternatives in biooil refinery. <i>Biofuels, Bioproducts and Biorefining</i> , 2019, 13, 690-722.	3.7	20
39	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
40	Retention models of capacity factor with different compositions of organic modifier in RP-HPLC. <i>Korean Journal of Chemical Engineering</i> , 1996, 13, 578-584.	2.7	18
41	Extension of the Hansen solubility parameter concept to the micronization of cyclotrimethylenetrinitramine crystals by supercritical anti-solvent process. <i>Journal of Supercritical Fluids</i> , 2016, 111, 112-120.	3.2	18
42	Inactivation behavior of <i>Pseudomonas aeruginosa</i> by supercritical N ₂ O compared to supercritical CO ₂ . <i>International Journal of Food Microbiology</i> , 2011, 144, 372-378.	4.7	17
43	Simultaneous carbon capture and nitrogen removal during supercritical water oxidation. <i>Journal of Supercritical Fluids</i> , 2012, 72, 120-124.	3.2	17
44	Synthesis of indium tin oxide (ITO) nanoparticles in supercritical methanol. <i>Journal of Supercritical Fluids</i> , 2016, 113, 39-43.	3.2	17
45	Monte Carlo simulations on the local density inhomogeneities of sub- and supercritical carbon dioxide: Statistical analysis based on the Voronoi tessellation. <i>Journal of Supercritical Fluids</i> , 2017, 119, 36-43.	3.2	17
46	OPA oxidation rates in supercritical water. <i>Journal of Hazardous Materials</i> , 2005, 124, 119-124.	12.4	16
47	Preparation of Pt-Co catalysts on mesoporous carbon and effect of alloying on catalytic activity in oxygen electro-reduction. <i>Korean Journal of Chemical Engineering</i> , 2008, 25, 431-436.	2.7	16
48	Hydrogen Production by Gasification of Isooctane Using Supercritical Water. <i>International Journal of Green Energy</i> , 2008, 5, 322-333.	3.8	16
49	Probabilistic characterization of the Widom delta in supercritical region. <i>Journal of Chemical Physics</i> , 2018, 149, 014502.	3.0	16
50	Physical and rheological properties of thermoplasticized crosslinked-polyethylene foam in supercritical methanol. <i>Macromolecular Research</i> , 2009, 17, 950-955.	2.4	15
51	SYNTHESIS OF TEREPHTHALIC ACID BY CATALYTIC PARTIAL OXIDATION OF p-XYLENE IN SUPERCRITICAL CARBON DIOXIDE. <i>Chemical Engineering Communications</i> , 2015, 202, 78-84.	2.6	15
52	Molecular dynamics simulation on the local density distribution and solvation structure of supercritical CO ₂ around naphthalene. <i>Journal of Supercritical Fluids</i> , 2017, 130, 364-372.	3.2	15
53	Improved pretreatment of yellow poplar biomass using hot compressed water and enzymatically-generated peracetic acid. <i>Biomass and Bioenergy</i> , 2017, 105, 190-196.	5.7	15
54	Prediction of the Crystal Morphology of β -HMX using a Generalized Interfacial Structure Analysis Model. <i>Crystal Growth and Design</i> , 2018, 18, 2349-2357.	3.0	15

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55	Topological Characterization of Rigid–Nonrigid Transition across the Frenkel Line. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6524-6528.	4.6	15
56	A corresponding-state framework for the structural transition of supercritical fluids across the Widom delta. <i>Journal of Chemical Physics</i> , 2019, 150, 154503.	3.0	15
57	Hydrolysis kinetics of tulip tree xylan in hot compressed water. <i>Bioresource Technology</i> , 2016, 214, 679-685.	9.6	14
58	Effect of hydrothermal processing on ginseng extract. <i>Journal of Ginseng Research</i> , 2017, 41, 572-577.	5.7	14
59	Evaluation of Pd/ZSM-5 catalyst for simultaneous reaction of transesterification and partial catalytic transfer hydrogenation of soybean oil under supercritical methanol. <i>Fuel Processing Technology</i> , 2021, 218, 106870.	7.2	14
60	Preparation of solid-state micro- and nanocellular acrylonitrile-butadiene-styrene (ABS) foams using sub- and supercritical CO ₂ as blowing agents. <i>Journal of Supercritical Fluids</i> , 2017, 124, 30-37.	3.2	13
61	Kinetics of the hydrolysis of xylan based on ether bond cleavage in subcritical water. <i>Journal of Supercritical Fluids</i> , 2018, 135, 145-151.	3.2	13
62	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
63	Uncatalyzed partial oxidation of p-xylene in sub- and supercritical water. <i>Reaction Kinetics and Catalysis Letters</i> , 2002, 77, 35-42.	0.6	12
64	Kinetics for free radical solution polymerization of heptadecafluorodecyl (meth)acrylate in supercritical carbon dioxide. <i>Korean Journal of Chemical Engineering</i> , 2007, 24, 664-669.	2.7	12
65	Coprecipitation of hydrochlorothiazide/PVP for the dissolution rate improvement by precipitation with compressed fluid antisolvent process. <i>Journal of Supercritical Fluids</i> , 2017, 126, 37-46.	3.2	12
66	Fabrication and Characterization of Multiscale PLA Structures Using Integrated Rapid Prototyping and Gas Foaming Technologies. <i>Nanomaterials</i> , 2018, 8, 575.	4.1	12
67	–Two-Phase–Thermodynamics of the Frenkel Line. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4550-4554.	4.6	12
68	Topological extension of the isomorph theory based on the Shannon entropy. <i>Physical Review E</i> , 2019, 100, 012118.	2.1	12
69	Separation of perillyl alcohol from the peel of citrus unshiu by supercritical CO ₂ and preparative high-performance liquid chromatography. <i>Korean Journal of Chemical Engineering</i> , 2001, 18, 352-356.	2.7	11
70	Solid-State Foaming of Acrylonitrile-Butadiene-Styrene/Recycled Polyethylene Terephthalate Using Carbon Dioxide as a Blowing Agent. <i>Polymers</i> , 2019, 11, 291.	4.5	11
71	One-pot supercritical transesterification and partial hydrogenation of soybean oil in the presence of Pd/Al ₂ O ₃ or Cu or Ni catalyst without H ₂ . <i>Journal of Supercritical Fluids</i> , 2020, 156, 104683.	3.2	11
72	A kinetic study on the supercritical decrosslinking reaction of silane-crosslinked polyethylene in a continuous process. <i>Polymer Degradation and Stability</i> , 2016, 126, 75-80.	5.8	10

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73	Topological generalization of the rigid-nonrigid transition in soft-sphere and hard-sphere fluids. <i>Physical Review E</i> , 2019, 99, 052603.	2.1	10
74	Design and Fabrication of Partially Foamed Grid Structure Using Additive Manufacturing and Solid State Foaming. <i>Processes</i> , 2020, 8, 1594.	2.8	10
75	Kinetics of extra-heavy oil upgrading in supercritical water with and without zinc nitrate using the phase separation kinetic model. <i>Journal of Supercritical Fluids</i> , 2020, 165, 104961.	3.2	10
76	Purification of Waste Cooking Oils via Supercritical Carbon Dioxide Extraction. <i>Separation Science and Technology</i> , 2010, 45, 1139-1146.	2.5	9
77	Design and economic analysis of biodiesel production process of simultaneous supercritical transesterification and partial hydrogenation using soybean oil with Pd/Al ₂ O ₃ catalyst. <i>Chemical Engineering Research and Design</i> , 2021, 172, 264-279.	5.6	9
78	Total organic carbon disappearance kinetics for supercritical water oxidation of dimethyl methylphosphate used as a chemical agent simulant. <i>Korean Journal of Chemical Engineering</i> , 2005, 22, 579-584.	2.7	8
79	Recrystallization of tetracycline hydrochloride using supercritical anti-solvent process. <i>Korean Journal of Chemical Engineering</i> , 2009, 26, 1119-1124.	2.7	8
80	Dimensionless Entropy of Fusion as a Simple Criterion To Predict Agglomeration in the Supercritical Antisolvent Process. <i>Crystal Growth and Design</i> , 2013, 13, 3481-3489.	3.0	8
81	Impact of bleaching on subcritical water- and Formosolv-pretreated tulip tree to enhance enzyme accessibility. <i>Bioresource Technology</i> , 2013, 145, 128-132.	9.6	8
82	Kinetic study of extra heavy oil upgrading in supercritical methanol with and without zinc nitrate. <i>Journal of Supercritical Fluids</i> , 2019, 146, 144-151.	3.2	8
83	Synthesis of biocompatible and biodegradable polymer particles in supercritical carbon dioxide. <i>Colloid and Polymer Science</i> , 2008, 286, 1181-1191.	2.1	7
84	Optimal Design of a Gas Antisolvent Recrystallization Process of Cyclotetramethylenetetranitramine (HMX) with Particle Size Distribution Model. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 11087-11096.	3.7	7
85	Synthesis of monodispersed poly(acrylonitrile) microspheres by dispersion polymerization in compressed liquid dimethyl ether. <i>Colloid and Polymer Science</i> , 2009, 287, 179-188.	2.1	6
86	Feasibility of supercritical CO ₂ treatment for controlling biofouling in the reverse osmosis process. <i>Biofouling</i> , 2012, 28, 627-633.	2.2	6
87	Interfacial Structure Analysis for the Morphology Prediction of Adipic Acid Crystals from Aqueous Solution. <i>Crystal Growth and Design</i> , 2017, 17, 1088-1095.	3.0	6
88	Driving Conformational Transitions in the Feature Space of Autoencoder Neural Network. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23224-23229.	3.1	6
89	Design of a self-tuning adaptive model predictive controller using recursive model parameter estimation for real-time plasma variable control. <i>Computers and Chemical Engineering</i> , 2019, 123, 126-142.	3.8	6
90	Desulfurization of hexyl sulfide and hexanethiol using supercritical water. <i>Journal of Supercritical Fluids</i> , 2020, 158, 104734.	3.2	6

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91	A method for measuring the solubility of Disperse Red 60 in supercritical carbon dioxide using variable-volume view cell with in-situ UV-Vis spectrometer. <i>Journal of Supercritical Fluids</i> , 2021, 176, 105302.	3.2	6
92	Recycling of Crosslinked Polypropylene and Crosslinked Polyethylene in Supercritical Methanol. <i>Korean Chemical Engineering Research</i> , 2012, 50, 88-92.	0.2	6
93	Extraction and purification of eupatilin from <i>Artemisia princeps</i> PAMPAN recycling preparative HPLC. <i>Korean Journal of Chemical Engineering</i> , 2006, 23, 279-282.	2.7	5
94	Batch-Wise Nonlinear Model Predictive Control of a Gas Antisolvent Recrystallization Process for the Uniform Production of Micronized HMX with Carbon Dioxide as the Antisolvent. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 11894-11902.	3.7	5
95	Preparation of polyethylene terephthalate foams at different saturation temperatures using dual methods of supercritical batch foaming. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 2560-2566.	2.7	5
96	Vegetable oil aided hydrothermal synthesis of cerium oxide nanocrystals. <i>Korean Journal of Chemical Engineering</i> , 2012, 29, 1289-1291.	2.7	4
97	Bactericidal effect of supercritical N ₂ O on <i>Staphylococcus aureus</i> and <i>Escherichia coli</i> . <i>International Journal of Food Microbiology</i> , 2012, 153, 15-20.	4.7	4
98	Recovery of water-soluble bioactive components from defatted sesame meal using carbon dioxide assisted hydrothermal process. <i>Journal of Supercritical Fluids</i> , 2021, 168, 105069.	3.2	4
99	Ovicidal activities of supercritical CO ₂ and N ₂ O on <i>Ascaris suum</i> eggs. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 504-508.	5.8	3
100	Co-precipitation of loperamide hydrochloride and polyethylene glycol using aerosol solvent extraction system. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 1797-1803.	2.7	3
101	Reactive Desorption of Fatty Acid Adsorbed on γ -Alumina Using Supercritical Methanol. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 10420-10426.	3.7	3
102	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
103	CO ₂ -assisted hydrothermal reactions for ginseng extract. <i>Journal of Supercritical Fluids</i> , 2018, 135, 17-24.	3.2	3
104	Kinetic study of the thermal conversion of ginsenosides using lumped groups in steaming, hydrothermal reactions, and CO ₂ -assisted hydrothermal reactions. <i>Journal of Supercritical Fluids</i> , 2021, 167, 105041.	3.2	3
105	The influence of mordenite characteristics in mordenite mixed with alumina on cracking of vacuum gas oil. <i>Korean Journal of Chemical Engineering</i> , 1997, 14, 445-450.	2.7	2
106	Acid-catalyzed regeneration of fatty-acid-adsorbed γ -alumina via transesterification with methanol. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 1994-2000.	2.7	2
107	Dispersion polymerization of NVCA in compressed liquid dimethyl ether in the presence of PDMS-g-pyrrolidone carboxylic acid: Effects of initiators. <i>Korean Journal of Chemical Engineering</i> , 2008, 25, 854-860.	2.7	1
108	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

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109	Optimal Design of HMX recrystallization process using supercritical carbon dioxide as antisolvent. Computer Aided Chemical Engineering, 2012, 31, 135-139.	0.5	1
110	10.2478/s11814-009-0187-6. , 2011, 26, 1125.		1
111	Recycling Technology of Crosslinked-Polymers Using Supercritical Fluid. Elastomers and Composites, 2012, 47, 111-120.	0.1	1
112	Recursive Model Estimation for the Plasma Parameters Quality Control. Computer Aided Chemical Engineering, 2018, 43, 279-284.	0.5	0
113	Cover Image, Volume 13, Issue 3. Biofuels, Bioproducts and Biorefining, 2019, 13, i-i.	3.7	0