Hun-Soo Byun

List of Publications by Year
in descending order

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96 papers	1,689 citations	331670 21 h-index	395702 33 g-index
96 all docs	96 docs citations	96 times ranked	959 citing authors

#	Article	IF	Citations
1	Wireless, intraoral hybrid electronics for real-time quantification of sodium intake toward hypertension management. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5377-5382.	7.1	137
2	Solubility of Poly(tetrafluoroethylene-co-19 mol % hexafluoropropylene) in Supercritical CO2 and Halogenated Supercritical Solvents. Macromolecules, 1996, 29, 6548-6555.	4.8	67
3	Selective separation of aspirin using molecularly imprinted polymers. Separation and Purification Technology, 2010, 74, 144-153.	7.9	61
4	Biodegradability of Chemically Modified Starch (RS4)/PVA Blend Films: Part 2. Journal of Polymers and the Environment, 2008, 16, 12-18.	5.0	59
5	High-pressure phase behavior and modeling of binary mixtures for alkyl acetate in supercritical carbon dioxide. Journal of Supercritical Fluids, 2006, 37, 323-332.	3.2	58
6	MXenes: An emerging 2D material. Carbon, 2022, 192, 366-383.	10.3	46
7	Phase behavior of the poly(vinyl pyrrolidone) + N-vinyl-2-pyrrolidone + carbon dioxide system. Journal of Supercritical Fluids, 2004, 30, 127-137.	3.2	42
8	Bubble-Point Measurement for CO2+ Vinyl Acetate and CO2+ Vinyl Acrylate Systems at High Pressures. Journal of Chemical & Engineering Data, 2003, 48, 97-101.	1.9	33
9	Monomer concentration effect on the phase behavior of poly(propyl acrylate) and poly(propyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 126-131.	2.7	32
10	Phase Behavior of Binary and Ternary Mixtures of Poly(decyl acrylate)â^'Supercritical Solventsâ^'Decyl Acrylate and Poly(decyl methacrylate)â^'CO2â^'Decyl Methacrylate Systems. Industrial & Engineering Chemistry Research, 2006, 45, 3373-3380.	3.7	32
11	High pressure phase behavior of poly[isopropyl acrylate] and poly[isopropyl methacrylate] in supercritical fluid (SCF) solvent and SCF solvent+cosolvent mixtures. Journal of Supercritical Fluids, 2007, 41, 482-491.	3.2	32
12	Phase Behavior for Mixtures of Poly(2-ethylhexyl acrylate) + 2-Ethylhexyl Acrylate and Poly(2-ethylhexyl methacrylate) + 2-Ethylhexyl Methacrylate with Supercritical Fluid Solvents. Journal of Chemical & Engineering Data, 2007, 52, 410-418.	1.9	29
13	Phase behaviour for the (carbon dioxide + 1,3-butanediol diacrylate) and (carbon dioxide +) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Thermodynamics, 2014, 71, 91-97.	2.0	29
14	Cosolvent Effect and Solubility Measurement for Butyl (Meth)acrylate Polymers in Benign Environmental Supercritical Solvents. Industrial & Engineering Chemistry Research, 2006, 45, 3354-3365.	3.7	28
15	Cloud Points of Poly(Îµ-caprolactone), Poly(l-lactide), and Polystyrene in Supercritical Fluids. Industrial & Engineering Chemistry Research, 2006, 45, 3381-3387.	3.7	26
16	Molecularly imprinted polymers for selective separation of acetaminophen and aspirin by using supercritical fluid technology. Chemical Engineering Journal, 2013, 226, 171-180.	12.7	26
17	A review on graphene oxide effect in energy storage devices. Journal of Industrial and Engineering Chemistry, 2022, 106, 20-36.	5.8	24
18	Phase behavior for the poly(2-methoxyethyl acrylate)+supercritical solvent+cosolvent mixture and CO2+2-methoxyethyl acrylate system at high pressure. Korean Journal of Chemical Engineering, 2015, 32, 958-966.	2.7	22

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19	High pressure phase behavior for carbon dioxide-1-butanol and carbon dioxide-1-octanol systems. Korean Journal of Chemical Engineering, 2002, 19, 1007-1013.	2.7	21
20	Phase Behavior of the Poly[hexyl (meth)acrylate]â^'Supercritical Solventsâ^'Monomer Mixtures at High Pressures. Industrial & Engineering Chemistry Research, 2004, 43, 1543-1552.	3.7	21
21	Cloud-point measurement of the biodegradable poly(d,l-lactide-co-glycolide) solution in supercritical fluid solvents. Korean Journal of Chemical Engineering, 2006, 23, 1003-1008.	2.7	21
22	Synthesis and adsorption properties of carbamazepine imprinted polymer by dispersion polymerization in supercritical carbon dioxide. Korean Journal of Chemical Engineering, 2014, 31, 2266-2273.	2.7	20
23	Experimental measurement of cloud-point and bubble-point for the {poly(isobornyl methacrylate) + supercritical solvents + co-solvent} system at high pressure. Journal of Chemical Thermodynamics, 2014, 75, 25-32.	2.0	20
24	Cloud-point measurement of binary and ternary mixtures for the P(MMA-co-PnFPA) in supercritical fluoric solvents. Journal of Supercritical Fluids, 2017, 120, 226-239.	3.2	20
25	Bubble-point measurement for the CO2+diethylene glycol diacrylate and CO2+diethylene glycol dimethacrylate systems at high pressure. Korean Journal of Chemical Engineering, 2013, 30, 739-745.	2.7	19
26	Phase behavior and characterization of the poly(methyl methacrylate-co-octafluoropentyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td 2015, 396, 74-87.	2.5	19
27	Phase behavior of binary and ternary mixture for the poly(TBAEMA) and TBAEMA in supercritical solvents. Korean Journal of Chemical Engineering, 2017, 34, 2056-2064.	2.7	19
28	High Pressure Phase Behavior of Carbon Dioxide + 1-Methyl-2-pyrrolidinone and Carbon Dioxide + 1-Ethyl-2-pyrrolidinone Systems. Journal of Chemical & Engineering Data, 2004, 49, 53-57.	1.9	18
29	Effect of cosolvent on the phase behavior of binary and ternary mixture for the poly(2-dimethylaminoethyl methacrylate) in supercritical solvents. Fluid Phase Equilibria, 2014, 381, 51-59.	2.5	18
30	Stretchable, Implantable, Nanostructured Flow-Diverter System for Quantification of Intra-aneurysmal Hemodynamics. ACS Nano, 2018, 12, 8706-8716.	14.6	18
31	Kinetic study of 3C-SiC growth on Si by pyrolyzing tetramethysilane in low pressure radio frequency-induction heated chemical vapor deposition reactor. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2000, 18, 891-899.	2.1	17
32	High Pressure Phase Behavior of Carbon Dioxide + 2,2,2-Trifluoroethyl Methacrylate and + Poly(2,2,2-trifluoroethyl methacrylate) Systems. Journal of Chemical & Engineering Data, 2007, 52, 89-92.	1.9	17
33	High-Pressure Phase Behavior for Poly[dodecyl methacrylate] + Supercritical Solvents + Cosolvents and Carbon Dioxide + Dodecyl Methacrylate Mixture. Industrial & Engineering Chemistry Research, 2009, 48, 7821-7827.	3.7	17
34	Experimental measurement and correlation of phase behavior for the CO2+heptafluorobutyl acrylate and CO2+heptafluorobutyl methacrylate systems at high pressure. Korean Journal of Chemical Engineering, 2014, 31, 522-527.	2.7	17
35	Experimental measurement of solubility curves for poly(methyl methacrylate-co-pentafluorophenyl) Tj ETQq1 1 0.784314 rgBT /Overlo	2.0	17
36	Phase behavior of tetrahydrofurfuryl methacrylate and poly(tetrahydrofurfuryl methacrylate) in supercritical carbon dioxide. Journal of CO2 Utilization, 2018, 25, 39-45.	6.8	17

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37	Effect of the octadecyl acrylate concentration on the phase behavior of poly(octadecyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 7 372-380.	2.6	16
38	Physical properties and photocatalytic activity of chitosan-based nanocomposites added titanium oxide nanoparticles. Macromolecular Research, 2016, 24, 51-59.	2.4	16
39	Binary mixture phase equilibria for the vinyl laurate, vinyl methacrylate and vinyl propionate under high pressure carbon dioxide. Journal of Chemical Thermodynamics, 2022, 168, 106746.	2.0	16
40	Solubility in the binary and ternary system for poly(alkyl acrylate)-supercritical solvent mixtures. Korean Journal of Chemical Engineering, 2004, 21, 874-881.	2.7	15
41	Vapor-Liquid equilibria measurement of carbon dioxide+1-hexene and carbon dioxide+2-ethyl-1-butene systems at high pressure. Korean Journal of Chemical Engineering, 2004, 21, 1032-1037.	2.7	15
42	Phase equilibria for the 2-ethoxyethyl acetate and 2-(2-ethoxyethoxy)ethyl acetate in supercritical CO2 at various temperatures and pressures up to 20 MPa. Journal of Industrial and Engineering Chemistry, 2014, 20, 4163-4168.	5.8	15
43	Phase Behavior for the Poly(phenyl methacrylate) and Phenyl Methacrylate in Supercritical Carbon Dioxide and Dimethyl Ether. Journal of Chemical & Engineering Data, 2017, 62, 1876-1883.	1.9	15
44	High pressure phase behavior for the binary mixture of valeronitrile, capronitrile and lauronitrile in supercritical carbon dioxide at temperatures from 313.2 to 393.2 K and pressures from 3.9 to 25.7 MPa. Fluid Phase Equilibria, 2011, 312, 93-100.	2.5	14
45	Phase behavioral study of binary systems for the vinyl Benzoate, vinyl pivalate and vinyl octanoate with carbon dioxide at high-pressure. Journal of Molecular Liquids, 2022, 358, 119131.	4.9	14
46	Phase Behavior of Carbon Dioxide + Methyl Acrylate and Carbon Dioxide + Ethyl Acrylate Systems at High Pressures. Journal of Chemical & Engineering Data, 2002, 47, 359-362.	1.9	13
47	Cloud point behavior for poly(isodecyl methacrylate)+supercritical solvents+cosolvent and vapor-liquid behavior for CO2+isodecyl methacrylate systems at high pressure. Korean Journal of Chemical Engineering, 2009, 26, 199-205.	2.7	13
48	Cloud-Point and Bubble-Point Measurement for the Poly(2-butoxyethyl acrylate) + Cosolvent Mixture and 2-Butoxyethyl Acrylate in Supercritical Fluid Solvents. Journal of Chemical & Engineering Data, 2014, 59, 1391-1399.	1.9	13
49	Experimental and computational investigation of two-component mixtures for the alkyl (ethyl, propyl) Tj ETQq1 1 0.784314 rgBT /Over 2022, 110, 367-374.	5.8	13
50	Phase behavior on the binary and ternary mixtures of poly(cyclohexyl acrylate) and poly(cyclohexyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.6	12
51	Isothermal vapor-liquid equilibria for the binary system of dimethyl ether (CH3OCH3)+ methanol (CH3OH). Korean Journal of Chemical Engineering, 2011, 28, 2324-2328.	2.7	12
52	High pressure phase behavior for the binary mixture of pentafluoropropyl methacrylate and poly(pentafluoropropyl methacrylate) in supercritical carbon dioxide and dimethyl ether. Korean Journal of Chemical Engineering, 2012, 29, 413-419.	2.7	12
53	Phase behavior for the poly(alkyl methacrylate)+supercritical CO2+DME mixture at high pressures. Korean Journal of Chemical Engineering, 2016, 33, 277-284.	2.7	12
54	Cloud-Point and Vaporâ"Liquid Behavior of Binary and Ternary Systems for the Poly(dodecyl acrylate) + Cosolvent and Dodecyl Acrylate in Supercritical Solvents. Journal of Chemical & Engineering Data, 2010, 55, 3684-3689.	1.9	11

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55	High pressure phase behavior for binary mixture of 2-ethoxyethyl methacrylate and 2,3-epoxypropyl methacrylate in supercritical carbon dioxide. Fluid Phase Equilibria, 2013, 351, 18-24.	2.5	11
56	Bubble-point measurement for the binary mixture of propargyl acrylate and propargyl methacrylate in supercritical carbon dioxide. Journal of Chemical Thermodynamics, 2016, 92, 191-197.	2.0	11
57	Adsorption and separation properties of gallic acid imprinted polymers prepared using supercritical fluid technology. Journal of Supercritical Fluids, 2017, 120, 249-257.	3.2	11
58	Solubility on tetrahydrofurfuryl acrylate effect for the poly[tetrahydrofurfuryl acrylate] in supercritical carbon dioxide and dimethyl ether. Journal of Supercritical Fluids, 2018, 135, 211-217.	3.2	11
59	Bubble and dew-point measurement of mixtures of 1H,1H,2H-perfluoro-1-octene and 1H,1H,2H,2H-perfluoro-1-octanol in supercritical CO₂. New Journal of Chemistry, 2022, 46, 7271-7278.	2.8	11
60	Phase behavior on the binary and ternary mixtures of poly(isooctyl acrylate) + supercritical fluid solvents + isooctyl acrylate and CO₂ + isooctyl acrylate system. Journal of Applied Polymer Science, 2008, 107, 1124-1132.	2.6	10
61	High pressure phase behavior for the propionitrile and butyronitrile in supercritical carbon dioxide. Journal of Industrial and Engineering Chemistry, 2010, 16, 962-966.	5.8	10
62	Phase behavior measurement for poly(isobornyl acrylate) + cosolvent systems in supercritical solvents at high pressure. Journal of Supercritical Fluids, 2013, 79, 11-18.	3.2	10
63	Phase behavior of binary mixture for the isoalkyl acetate in supercritical carbon dioxide. Fluid Phase Equilibria, 2014, 365, 97-105.	2.5	10
64	Liquid-liquid equilibrium of hydrogen bonding polymer solutions. Polymer, 2017, 121, 1-8.	3.8	10
65	Phase behaviors for the poly(2-phenylethyl methacrylate) in supercritical fluid solvents: Experiment and PC-SAFT EoS. Journal of Industrial and Engineering Chemistry, 2018, 59, 403-409.	5.8	10
66	Co-solvent concentration influence of two- and three-component systems on the high pressure cloud-point behavior for the poly(vinyl stearate) under supercritical CO2. Journal of Industrial and Engineering Chemistry, 2020, 90, 76-84.	5.8	10
67	Maximization of the power production in LNG cold energy recovery plant via genetic algorithm. Korean Journal of Chemical Engineering, 2021, 38, 380-385.	2.7	10
68	Co-solvent concentration impact on the cloud point behavior of 2- and 3-ingredient systems of the poly(tridecyl methacrylate) in supercritical CO₂. New Journal of Chemistry, 2022, 46, 2300-2308.	2.8	10
69	Binary equilibrium behavior for the N,N-dimethylaniline and N,N-diethylaniline in supercritical carbon dioxide. Journal of Molecular Liquids, 2022, 357, 119112.	4.9	10
70	Phase equilibria for the binary mixture of n-vinyl pyrrolidone and N,N-dimethylacrylamide in supercritical carbon dioxide. Journal of Industrial and Engineering Chemistry, 2012, 18, 414-419.	5.8	9
71	High pressure phase equilibria for the binary mixture of CO2+ 3-phenyl propionitrile and CO2+ 2-phenyl butyronitrile systems. Journal of Supercritical Fluids, 2017, 120, 218-225.	3.2	9
72	High-Pressure Phase Behavior for Pentyl Acrylate and Pentyl Methacrylate in Supercritical Carbon Dioxide. Journal of Chemical & Engineering Data, 2006, 51, 1436-1440.	1.9	8

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73	Phase Behavior for the CO₂ + Methyl Methoxyacetate and CO₂ + Methyl trans-3-Methoxyacrylate Systems at Pressures from (5 to 20) MPa and Various Temperatures. Journal of Chemical & Engineering Data, 2016, 61, 1101-1108.	1.9	8
74	Phase equilibria measurement of binary mixtures for triethylene glycol dimethacrylate and triethylene glycol diacrylate in supercritical CO2. Korean Journal of Chemical Engineering, 2017, 34, 1170-1176.	2.7	8
75	Phase equilibria and cloud-point behavior for the poly(2-phenylethyl methacrylate) in supercritical CO2 with monomers as co-solvent. Journal of CO2 Utilization, 2019, 31, 215-225.	6.8	8
76	Phase Equilibria Measurement of Binary Mixture for the Propoxylated Neopentyl Glycol Diacrylate in Supercritical Carbon Dioxide. Korean Chemical Engineering Research, 2016, 54, 206-212.	0.2	8
77	Phase behavior measurement for the ethylene glycol dimethacrylate in supercritical carbon dioxide at temperatures between (313.2 and 393.2) K and pressures from (5.8 to 22) MPa. Korean Journal of Chemical Engineering, 2010, 27, 1291-1295.	2.7	7
78	Phase behavior for the poly[2-(2-ethoxyethoxy)ethyl acrylate] and 2-(2-ethoxyethoxy)ethyl acrylate in supercritical solvents. Journal of Supercritical Fluids, 2014, 86, 41-48.	3.2	7
79	Phase behaviour for the (CO2â€¯+â€¯1-butyl-2-pyrrolidone) and (CO2â€¯+â€¯1-octyl-2-pyrrolidone) systems at temperatures from (313.2 to 393.2)â€¯K and pressures up to 28â€¯MPa. Journal of Chemical Thermodynamics, 2019, 130, 140-146.	2.0	7
80	Measurement and modeling of poly(vinyl stearate) in supercritical fluids. Journal of CO2 Utilization, 2020, 37, 346-352.	6.8	7
81	Two component phase equilibria for the 3-methoxy-3-methyl-1-butanol and 1-methoxy-2-methyl-2-propanol in supercritical carbon dioxide. Korean Journal of Chemical Engineering, 2021, 38, 610-616.	2.7	7
82	Experimental and computational phase behavior analysis of the PGME+CO2 and PGMEA+CO2 mixture at high pressures. Korean Journal of Chemical Engineering, 2022, 39, 2783-2791.	2.7	7
83	Cosolvent effect on the phase behavior for the poly(benzyl acrylate) and poly(benzyl methacrylate) in supercritical carbon dioxide and dimethyl ether. Journal of Industrial and Engineering Chemistry, 2010, 16, 598-601.	5.8	6
84	High-Pressure Phase Behavior of Binary Mixtures of Octafluoropentyl Acrylate and Octafluoropentyl Methacrylate in Supercritical Carbon Dioxide. Journal of Chemical & Engineering Data, 2011, 56, 4116-4122.	1.9	6
85	Phase behavior measurement for the binary mixture of CO2+ neopentyl glycol diacrylate and CO2+ neopentyl glycol dimethacrylate systems at high pressure. Fluid Phase Equilibria, 2011, 302, 234-240.	2.5	6
86	Effect of cosolvent on cloud-point of binary and ternary systems for the poly(4-chlorostyrene) + cosolvent mixtures in supercritical fluid solvents. Fluid Phase Equilibria, 2013, 351, 7-17.	2.5	6
87	Phase behaviour of binary and ternary mixtures for the poly(methyl methacrylate-co-hexafluorobutyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 67 Td (Thermodynamics, 2015, 82, 76-87.	2.0	6
88	Phase behavior for the 2-(trimethylsilyloxy)ethyl methacrylate and 3-(trimethoxysilyl)propyl methacrylate in supercritical carbon dioxide. Fluid Phase Equilibria, 2018, 462, 1-5.	2.5	6
89	Thermodynamic phase behavior of fluoropolymer mixtures with supercritical fluid solvents. Korean Journal of Chemical Engineering, 2004, 21, 1193-1198.	2.7	5
90	Phase behaviour for the (carbon dioxide+2-phenoxyethyl acrylate) and (carbon) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (dioxide+2-p from (5 to 31)MPa. Journal of Chemical Thermodynamics, 2010, 42, 758-763.	2.0	5

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91	Phase behavior for the poly(dimethylsiloxane) in supercritical fluid solvents. Journal of Industrial and Engineering Chemistry, 2013, 19, 665-669.	5.8	5
92	Phase separation of two- and three-component solution for the poly(pentyl acrylate-co-methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70 polymerization. Journal of Industrial and Engineering Chemistry, 2021, 99, 158-171.	5.8	5
93	Phase Behavior of the Binary Mixture of Cyclohexyl Acrylate and Cyclohexyl Methacrylate in Supercritical Carbon Dioxide. Journal of Chemical & Engineering Data, 2005, 50, 385-389.	1.9	4
94	Separation and recognition characteristics by MIP manufacture using supercritical CO2 technology. Journal of Industrial and Engineering Chemistry, 2021, 97, 356-367.	5.8	4
95	Experimental and numerical study on smectic aligned zirconium phosphate decorated graphene oxide hybrids effects over waterborne epoxy multi-functional properties enhancement. Journal of Industrial and Engineering Chemistry, 2022, 107, 165-179.	5.8	4
96	Computational discovery of novel human LMTK3 inhibitors by high throughput virtual screening using NCI database. Korean Journal of Chemical Engineering, 0, , .	2.7	0