

Hun-Soo Byun

List of Publications by Year in descending order

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96
papers

1,689
citations

377584

21
h-index

445137

33
g-index

96
all docs

96
docs citations

96
times ranked

1074
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on graphene oxide effect in energy storage devices. Journal of Industrial and Engineering Chemistry, 2022, 106, 20-36.	2.9	24
2	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.	2.9	4
3	Co-solvent concentration impact on the cloud point behavior of 2- and 3-ingredient systems of the poly(tridecyl methacrylate) in supercritical CO ₂ . New Journal of Chemistry, 2022, 46, 2300-2308.	1.4	10
4	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.	1.0	16
5	Bubble and dew-point measurement of mixtures of 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> -perfluoro-1-octene and 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluoro-1-octanol in supercritical CO ₂ . New Journal of Chemistry, 2022, 46, 7271-7278.	1.4	11
6	Experimental and computational investigation of two-component mixtures for the alkyl (ethyl, propyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22 2022, 110, 367-374.	2.9	13
7	Binary equilibrium behavior for the N,N-dimethylaniline and N,N-diethylaniline in supercritical carbon dioxide. Journal of Molecular Liquids, 2022, 357, 119112.	2.3	10
8	MXenes: An emerging 2D material. Carbon, 2022, 192, 366-383.	5.4	46
9	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.	2.3	14
10	Experimental and computational phase behavior analysis of the PGME+CO ₂ and PGMEA+CO ₂ mixture at high pressures. Korean Journal of Chemical Engineering, 2022, 39, 2783-2791.	1.2	7
11	Maximization of the power production in LNG cold energy recovery plant via genetic algorithm. Korean Journal of Chemical Engineering, 2021, 38, 380-385.	1.2	10
12	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.	1.2	7
13	Separation and recognition characteristics by MIP manufacture using supercritical CO ₂ technology. Journal of Industrial and Engineering Chemistry, 2021, 97, 356-367.	2.9	4
14	Phase separation of two- and three-component solution for the poly(pentyl acrylate-co-methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22 polymerization. Journal of Industrial and Engineering Chemistry, 2021, 99, 158-171.	2.9	5
15	Co-solvent concentration influence of two- and three-component systems on the high pressure cloud-point behavior for the poly(vinyl stearate) under supercritical CO ₂ . Journal of Industrial and Engineering Chemistry, 2020, 90, 76-84.	2.9	10
16	Measurement and modeling of poly(vinyl stearate) in supercritical fluids. Journal of CO ₂ Utilization, 2020, 37, 346-352.	3.3	7
17	Phase equilibria and cloud-point behavior for the poly(2-phenylethyl methacrylate) in supercritical CO ₂ with monomers as co-solvent. Journal of CO ₂ Utilization, 2019, 31, 215-225.	3.3	8
18	Phase behaviour for the (CO ₂ + ϵ -1-butyl-2-pyrrolidone) and (CO ₂ + ϵ -1-octyl-2-pyrrolidone) systems at temperatures from (313.2 to 393.2) ϵ K and pressures up to 28 ϵ MPa. Journal of Chemical Thermodynamics, 2019, 130, 140-146.	1.0	7

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19	Solubility on tetrahydrofurfuryl acrylate effect for the poly[tetrahydrofurfuryl acrylate] in supercritical carbon dioxide and dimethyl ether. <i>Journal of Supercritical Fluids</i> , 2018, 135, 211-217.	1.6	11
20	Phase behavior for the 2-(trimethylsilyloxy)ethyl methacrylate and 3-(trimethoxysilyl)propyl methacrylate in supercritical carbon dioxide. <i>Fluid Phase Equilibria</i> , 2018, 462, 1-5.	1.4	6
21	Phase behavior of tetrahydrofurfuryl methacrylate and poly(tetrahydrofurfuryl methacrylate) in supercritical carbon dioxide. <i>Journal of CO2 Utilization</i> , 2018, 25, 39-45.	3.3	17
22	Phase behaviors for the poly(2-phenylethyl methacrylate) in supercritical fluid solvents: Experiment and PC-SAFT EoS. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 59, 403-409.	2.9	10
23	Stretchable, Implantable, Nanostructured Flow-Diverter System for Quantification of Intra-aneurysmal Hemodynamics. <i>ACS Nano</i> , 2018, 12, 8706-8716.	7.3	18
24	Wireless, intraoral hybrid electronics for real-time quantification of sodium intake toward hypertension management. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5377-5382.	3.3	137
25	Adsorption and separation properties of gallic acid imprinted polymers prepared using supercritical fluid technology. <i>Journal of Supercritical Fluids</i> , 2017, 120, 249-257.	1.6	11
26	Cloud-point measurement of binary and ternary mixtures for the P(MMA-co-PnFPA) in supercritical fluoroc solvents. <i>Journal of Supercritical Fluids</i> , 2017, 120, 226-239.	1.6	20
27	Phase equilibria measurement of binary mixtures for triethylene glycol dimethacrylate and triethylene glycol diacrylate in supercritical CO ₂ . <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 1170-1176.	1.2	8
28	Liquid-liquid equilibrium of hydrogen bonding polymer solutions. <i>Polymer</i> , 2017, 121, 1-8.	1.8	10
29	Phase Behavior for the Poly(phenyl methacrylate) and Phenyl Methacrylate in Supercritical Carbon Dioxide and Dimethyl Ether. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 1876-1883.	1.0	15
30	Phase behavior of binary and ternary mixture for the poly(TBAEMA) and TBAEMA in supercritical solvents. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 2056-2064.	1.2	19
31	High pressure phase equilibria for the binary mixture of CO ₂ + 3-phenyl propionitrile and CO ₂ + 2-phenyl butyronitrile systems. <i>Journal of Supercritical Fluids</i> , 2017, 120, 218-225.	1.6	9
32	Bubble-point measurement for the binary mixture of propargyl acrylate and propargyl methacrylate in supercritical carbon dioxide. <i>Journal of Chemical Thermodynamics</i> , 2016, 92, 191-197.	1.0	11
33	Phase Behavior for the CO ₂ + Methyl Methoxyacetate and CO ₂ + Methyl <i>trans</i> -3-Methoxyacrylate Systems at Pressures from (5 to 20) MPa and Various Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 1101-1108.	1.0	8
34	Physical properties and photocatalytic activity of chitosan-based nanocomposites added titanium oxide nanoparticles. <i>Macromolecular Research</i> , 2016, 24, 51-59.	1.0	16
35	Experimental measurement of solubility curves for poly(methyl methacrylate-co-pentafluorophenyl) Tj ETQq1 1 0.784314 rgBT/Overlock	1.0	17
36	Phase behavior for the poly(alkyl methacrylate)+supercritical CO ₂ +DME mixture at high pressures. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 277-284.	1.2	12

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37	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
38	Phase behavior for the poly(2-methoxyethyl acrylate)+supercritical solvent+cosolvent mixture and CO ₂ +2-methoxyethyl acrylate system at high pressure. Korean Journal of Chemical Engineering, 2015, 32, 958-966.	1.2	22
39	Phase behavior and characterization of the poly(methyl methacrylate-co-octafluoropentyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 2015, 396, 74-87.	1.4	19
40	Phase behaviour of binary and ternary mixtures for the poly(methyl methacrylate-co-hexafluorobutyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Thermodynamics, 2015, 82, 76-87.	1.0	6
41	Synthesis and adsorption properties of carbamazepine imprinted polymer by dispersion polymerization in supercritical carbon dioxide. Korean Journal of Chemical Engineering, 2014, 31, 2266-2273.	1.2	20
42	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.	1.4	18
43	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.	1.6	7
44	Experimental measurement and correlation of phase behavior for the CO ₂ +heptafluorobutyl acrylate and CO ₂ +heptafluorobutyl methacrylate systems at high pressure. Korean Journal of Chemical Engineering, 2014, 31, 522-527.	1.2	17
45	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.	1.0	13
46	Phase equilibria for the 2-ethoxyethyl acetate and 2-(2-ethoxyethoxy)ethyl acetate in supercritical CO ₂ at various temperatures and pressures up to 20 MPa. Journal of Industrial and Engineering Chemistry, 2014, 20, 4163-4168.	2.9	15
47	Phase behavior of binary mixture for the isoalkyl acetate in supercritical carbon dioxide. Fluid Phase Equilibria, 2014, 365, 97-105.	1.4	10
48	Phase behaviour for the (carbon dioxide + 1,3-butanediol diacrylate) and (carbon dioxide +) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Thermodynamics, 2014, 71, 91-97.	1.0	29
49	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.	1.0	20
50	Bubble-point measurement for the CO ₂ +diethylene glycol diacrylate and CO ₂ +diethylene glycol dimethacrylate systems at high pressure. Korean Journal of Chemical Engineering, 2013, 30, 739-745.	1.2	19
51	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.	1.4	11
52	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.	1.4	6
53	Phase behavior measurement for poly(isobornyl acrylate) + cosolvent systems in supercritical solvents at high pressure. Journal of Supercritical Fluids, 2013, 79, 11-18.	1.6	10
54	Molecularly imprinted polymers for selective separation of acetaminophen and aspirin by using supercritical fluid technology. Chemical Engineering Journal, 2013, 226, 171-180.	6.6	26

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55	Phase behavior for the poly(dimethylsiloxane) in supercritical fluid solvents. Journal of Industrial and Engineering Chemistry, 2013, 19, 665-669.	2.9	5
56	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.	1.2	12
57	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.	2.9	9
58	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.	1.0	6
59	High pressure phase behavior for the binary mixture of valeritrile, capronitrile and lauritrile 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.	1.4	14
60	Phase behavior measurement for the binary mixture of CO ₂ + neopentyl glycol diacrylate and CO ₂ + neopentyl glycol dimethacrylate systems at high pressure. Fluid Phase Equilibria, 2011, 302, 234-240.	1.4	6
61	Isothermal vapor-liquid equilibria for the binary system of dimethyl ether (CH ₃ OCH ₃)+ methanol (CH ₃ OH). Korean Journal of Chemical Engineering, 2011, 28, 2324-2328.	1.2	12
62	Selective separation of aspirin using molecularly imprinted polymers. Separation and Purification Technology, 2010, 74, 144-153.	3.9	61
63	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.	1.2	7
64	Phase behaviour for the (carbon dioxide+2-phenoxyethyl acrylate) and (carbon) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (dioxide+2 from (5 to 31)MPa. Journal of Chemical Thermodynamics, 2010, 42, 758-763.	1.0	5
65	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.	2.9	6
66	High pressure phase behavior for the propionitrile and butyronitrile in supercritical carbon dioxide. Journal of Industrial and Engineering Chemistry, 2010, 16, 962-966.	2.9	10
67	Cloud-Point and Vapor-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.	1.0	11
68	Cloud point behavior for poly(isodecyl methacrylate)+supercritical solvents+cosolvent and vapor-liquid behavior for CO ₂ +isodecyl methacrylate systems at high pressure. Korean Journal of Chemical Engineering, 2009, 26, 199-205.	1.2	13
69	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.	1.8	17
70	Biodegradability of Chemically Modified Starch (RS4)/PVA Blend Films: Part 2. Journal of Polymers and the Environment, 2008, 16, 12-18.	2.4	59
71	Phase behavior on the binary and ternary mixtures of poly(isooctyl acrylate) + supercritical fluid solvents + isooctyl acrylate and CO ₂ + isooctyl acrylate system. Journal of Applied Polymer Science, 2008, 107, 1124-1132.	1.3	10
72	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.	1.0	29

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73	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.	1.0	17
74	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.	1.6	32
75	Phase Behavior of Binary and Ternary Mixtures of Poly(decyl acrylate)~Supercritical Solvents~Decyl Acrylate and Poly(decyl methacrylate)~CO2~Decyl Methacrylate Systems. Industrial & Engineering Chemistry Research, 2006, 45, 3373-3380.	1.8	32
76	High-Pressure Phase Behavior for Pentyl Acrylate and Pentyl Methacrylate in Supercritical Carbon Dioxide. Journal of Chemical & Engineering Data, 2006, 51, 1436-1440.	1.0	8
77	Cloud Points of Poly(μ -caprolactone), Poly(l-lactide), and Polystyrene in Supercritical Fluids. Industrial & Engineering Chemistry Research, 2006, 45, 3381-3387.	1.8	26
78	Cosolvent Effect and Solubility Measurement for Butyl (Meth)acrylate Polymers in Benign Environmental Supercritical Solvents. Industrial & Engineering Chemistry Research, 2006, 45, 3354-3365.	1.8	28
79	High-pressure phase behavior and modeling of binary mixtures for alkyl acetate in supercritical carbon dioxide. Journal of Supercritical Fluids, 2006, 37, 323-332.	1.6	58
80	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.	1.2	21
81	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.	1.0	4
82	Thermodynamic phase behavior of fluoropolymer mixtures with supercritical fluid solvents. Korean Journal of Chemical Engineering, 2004, 21, 1193-1198.	1.2	5
83	Solubility in the binary and ternary system for poly(alkyl acrylate)-supercritical solvent mixtures. Korean Journal of Chemical Engineering, 2004, 21, 874-881.	1.2	15
84	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.	1.2	15
85	Phase behavior on the binary and ternary mixtures of poly(cyclohexyl acrylate) and poly(cyclohexyl) Tj ETQq1 1 0.784314 rgBT/Overl 1.3 12		
86	Phase behavior of the poly(vinyl pyrrolidone) + N-vinyl-2-pyrrolidone + carbon dioxide system. Journal of Supercritical Fluids, 2004, 30, 127-137.	1.6	42
87	Phase Behavior of the Poly[hexyl (meth)acrylate]~Supercritical Solvents~Monomer Mixtures at High Pressures. Industrial & Engineering Chemistry Research, 2004, 43, 1543-1552.	1.8	21
88	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.	1.0	18
89	Bubble-Point Measurement for CO2+ Vinyl Acetate and CO2+ Vinyl Acrylate Systems at High Pressures. Journal of Chemical & Engineering Data, 2003, 48, 97-101.	1.0	33
90	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.	1.0	13

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91	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.	1.3	16
92	Monomer concentration effect on the phase behavior of poly(propyl acrylate) and poly(propyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70 126-131.	1.2	32
93	High pressure phase behavior for carbon dioxide-1-butanol and carbon dioxide-1-octanol systems. Korean Journal of Chemical Engineering, 2002, 19, 1007-1013.	1.2	21
94	Kinetic study of 3C-SiC growth on Si by pyrolyzing tetramethylsilane 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.	0.9	17
95	Solubility of Poly(tetrafluoroethylene-co-19 mol % hexafluoropropylene) in Supercritical CO2 and Halogenated Supercritical Solvents. Macromolecules, 1996, 29, 6548-6555.	2.2	67
96	Computational discovery of novel human LMTK3 inhibitors by high throughput virtual screening using NCI database. Korean Journal of Chemical Engineering, 0, , .	1.2	0