Erdogan Kiran

List of Publications by Year
in descending order

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		172457	175258
100	3,145	29	52
papers	citations	h-index	g-index

106	106	106	2181
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Formation of polymer particles with supercritical fluids: A review. Journal of Supercritical Fluids, 2005, 34, 287-308.	3.2	496
2	Foaming of polymers with supercritical fluids and perspectives on the current knowledge gaps and challenges. Journal of Supercritical Fluids, 2018, 134, 157-166.	3.2	168
3	Supercritical fluids and polymers â€“ The year in review â€“ 2014. Journal of Supercritical Fluids, 2016, 110, 126-153.	3.2	136
4	Pyrolysis-molecular weight chromatography: A new on-line system for analysis of polymers. II. Thermal decomposition of polyolefins: Polyethylene, polypropylene, polyisobutylene. Journal of Applied Polymer Science, 1976, 20, 2045-2068.	2.6	119
5	Miscibility, density and viscosity of poly(dimethylsiloxane) in supercritical carbon dioxide. Polymer, 1995, 36, 4817-4826.	3.8	108
6	Volumetric Properties of Carbon Dioxide + Ethanol at High Pressures. Journal of Chemical & Engineering Data, 1997, 42, 384-388.	1.9	95
7	Polymer miscibility, phase separation, morphological modifications and polymorphic transformations in dense fluids. Journal of Supercritical Fluids, 2009, 47, 466-483.	3.2	74
8	Modeling polyethylene solutions in near and supercritical fluids using the sanchez-lacombe model. Journal of Supercritical Fluids, 1993, 6, 193-203.	3.2	61
9	Volumetric Properties of Carbon Dioxide + Acetone at High Pressures. Journal of Chemical & Engineering Data, 1997, 42, 379-383.	1.9	60
10	Miscibility, phase separation, and volumetric properties in solutions of poly(dimethylsiloxane) in supercritical carbon dioxide. Journal of Applied Polymer Science, 2000, 75, 1397-1403.	2.6	57
11	Foaming strategies for bioabsorbable polymers in supercritical fluid mixtures. Part I. Miscibility and foaming of poly(l-lactic acid) in carbon dioxide+acetone binary fluid mixtures. Journal of Supercritical Fluids, 2010, 54, 296-307.	3.2	57
12	Volumetric Properties of Pentane + Carbon Dioxide at High Pressures. Journal of Chemical & Engineering Data, 1996, 41, 158-165.	1.9	47
13	Morphological changes in poly(É›-caprolactone) in dense carbon dioxide. Polymer, 2008, 49, 1853-1859.	3.8	47
14	Interaction of supercritical fluids with lignocellulosic materials. Industrial & Engineering Chemistry Research, 1988, 27, 1301-1312.	3.7	46
15	A new experimental system to study the temperature and pressure dependence of viscosity, density, and phase behavior of pure fluids and solutions. Journal of Supercritical Fluids, 1990, 3, 91-99.	3.2	46
16	Prediction of high-pressure phase behaviour in polyethylene/n-pentane/carbon dioxide ternary system with the Sanchez-Lacombe model. Polymer, 1994, 35, 4408-4415.	3.8	46
17	Solubility of polyethylene in n-pentane at high pressures. Polymer, 1992, 33, 5259-5263.	3.8	45
18	Solubility and demixing of polyethylene in supercritical binary fluid mixtures: Carbon dioxideâ€“cyclohexane, carbon dioxideâ€“toluene, carbon dioxideâ€“pentane. Journal of Applied Polymer Science, 1993, 47, 895-909.	2.6	44

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19	Copolymerization of Acrylonitrile with Methyl Methacrylate and 2-Chlorostyrene in Supercritical CO2. Macromolecules, 2004, 37, 8239-8248.	4.8	43
20	Viscosity, Density and Excess Volume of Acetone + Carbon Dioxide Mixtures at High Pressures. Industrial & Engineering Chemistry Research, 2007, 46, 5453-5462.	3.7	43
21	High-pressure phase behavior in polyethylene/n-butane binary and polyethylene/n-butane/CO2 ternary systems. Journal of Applied Polymer Science, 1994, 53, 1179-1190.	2.6	41
22	Foaming of polymers with carbon dioxide â€“ The year-in-review â€“ 2019. Journal of Supercritical Fluids, 2021, 173, 105166.	3.2	37
23	High-pressure viscosity and density of poly(methyl methacrylate)+acetone and poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.2	34
24	Melting behavior of biodegradable polyesters in carbon dioxide at high pressures. Journal of Supercritical Fluids, 2012, 72, 278-287.	3.2	33
25	High-pressure light scattering apparatus to study pressure-induced phase separation in polymer solutions. Review of Scientific Instruments, 1998, 69, 1463-1471.	1.3	32
26	Foaming strategies for bioabsorbable polymers in supercritical fluid mixtures. Part II. Foaming of poly(É›-caprolactone-co-lactide) in carbon dioxide and carbon dioxide+acetone fluid mixtures and formation of tubular foams via solution extrusion. Journal of Supercritical Fluids, 2010, 54, 308-319.	3.2	32
27	Comparison of Sanchezâ€“Lacombe and SAFT model in predicting solubility of polyethylene in high-pressure fluids. Journal of Applied Polymer Science, 1995, 55, 1805-1818.	2.6	31
28	Kinetics of pressure-induced phase separation (PIPS) in solutions of polydimethylsiloxane in supercritical carbon dioxide: crossover from nucleation and growth to spinodal decomposition mechanism. Journal of Supercritical Fluids, 1999, 16, 59-79.	3.2	31
29	Volumetric Properties of Carbon Dioxide + Toluene at High Pressures. Journal of Chemical & Engineering Data, 1996, 41, 482-486.	1.9	29
30	Miscibility, density and viscosity of polystyrene in n-hexane at high pressures. Polymer, 1997, 38, 5185-5193.	3.8	29
31	Inclusion complex formation of Î²-cyclodextrin and Naproxen: a study on exothermic complex formation by differential scanning calorimetry. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2013, 77, 269-277.	1.6	29
32	High-pressure viscosity and density of polyethylene solutions in n-pentane. Journal of Applied Polymer Science, 1995, 58, 2307-2324.	2.6	28
33	High-Pressure Viscosity and Density of Polymer Solutions at the Critical Polymer Concentration in Near-Critical and Supercritical Fluids. Industrial & Engineering Chemistry Research, 2002, 41, 6354-6362.	3.7	28
34	Volumetric properties of ethyl acetate+carbon dioxide binary fluid mixtures at high pressures. Journal of Supercritical Fluids, 2012, 61, 9-24.	3.2	28
35	A new experimental system for combinatorial exploration of foaming of polymers in carbon dioxide: The gradient foaming of PMMA. Journal of Supercritical Fluids, 2016, 109, 1-19.	3.2	28
36	The kinetics of thermal decomposition of 1-alkyl-3-methylimidazolium chloride ionic liquids under isothermal and non-isothermal conditions. Thermochimica Acta, 2020, 685, 178509.	2.7	26

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37	Effect of polydispersity on the demixing pressures of polyethylene in near- or supercritical alkanes. Journal of Supercritical Fluids, 1994, 7, 283-287.	3.2	25
38	Pressure-Induced Phase Separation in Polymer Solutions:â€‰ Kinetics of Phase Separation and Crossover from Nucleation and Growth to Spinodal Decomposition in Solutions of Polyethylene in n-Pentane. Macromolecules, 2001, 34, 3060-3068.	4.8	25
39	Miscibility, viscosity and density of poly (É›-caprolactone) in acetone+CO2 binary fluid mixtures. Journal of Supercritical Fluids, 2006, 39, 192-200.	3.2	25
40	High-pressure solution blending of poly(É›-caprolactone) with poly(methyl methacrylate) in acetone+carbon dioxide. Polymer, 2008, 49, 1555-1561.	3.8	25
41	Solubility of polystyrenes in supercritical fluids. Journal of Supercritical Fluids, 1988, 1, 37-44.	3.2	24
42	Foaming of polystyrene and poly(methyl methacrylate) multilayered thin films with supercritical carbon dioxide. Journal of Supercritical Fluids, 2019, 145, 243-252.	3.2	24
43	Thermal and spectral characterization and stability of mixtures of ionic liquids [EMIM]Ac and [BMIM]Ac with ethanol, methanol, and water at ambient conditions and at elevated temperatures and pressures. Thermochimica Acta, 2018, 669, 126-139.	2.7	23
44	ESTIMATION OF CRITICAL PROPERTIES OF BINARY MIXTURES USING GROUP CONTRIBUTION METHODS. Chemical Engineering Communications, 1990, 94, 131-141.	2.6	22
45	Volumetric Properties of Carbon Dioxide + Sulfur Hexafluoride at High Pressures. Journal of Chemical & Engineering Data, 1996, 41, 354-360.	1.9	22
46	Thermoreversible Gelation and Polymorphic Transformations of Syndiotactic Polystyrene in Toluene and Toluene + Carbon Dioxide Fluid Mixtures at High Pressures. Macromolecules, 2008, 41, 7525-7535.	4.8	22
47	Miscibility and Phase Separation of Polymers in Near- and Supercritical Fluids. ACS Symposium Series, 1997, , 2-36.	0.5	21
48	Solubility and diffusivity of CO2 and N2 in polymers and polymer swelling, glass transition, melting, and crystallization at high pressure: A critical review and perspectives on experimental methods, data, and modeling. Journal of Supercritical Fluids, 2022, 185, 105378.	3.2	21
49	Polymer Formation, Modifications and Processing in or with Supercritical Fluids. , 1994, , 541-588.		20
50	High-pressure density and viscosity of polystyrene solutions in methylcyclohexane. Journal of Supercritical Fluids, 1999, 15, 261-272.	3.2	19
51	Volumetric Properties of Propane, n-Octane, and Their Binary Mixtures at High Pressures. Industrial & Engineering Chemistry Research, 2013, 52, 6592-6609.	3.7	19
52	Foaming of poly(ethyleneâ€coâ€‹vinyl acetate) and poly(ethyleneâ€coâ€‹vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 T Science, 2018, 135, 45841.	2.6	19
53	Polymerization of styrene in supercriticaln-butane. Journal of Supercritical Fluids, 1990, 3, 198-204.	3.2	18
54	Alternative solvents for cellulose derivatives:. Journal of Supercritical Fluids, 1998, 13, 135-141.	3.2	18

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55	Viscosity Reduction of Polystyrene Solutions in Toluene with Supercritical Carbon Dioxide. Macromolecules, 1999, 32, 7325-7328.	4.8	18
56	Phase behavior, density, and crystallization of polyethylene inn-pentane and inn-pentane/CO2 at high pressures. Journal of Applied Polymer Science, 2003, 89, 2201-2209.	2.6	18
57	Crystallization and gelation of isotactic poly(4-methyl-1-pentene) in n-pentane and in n-pentane+CO2 at high pressures. Journal of Supercritical Fluids, 2006, 38, 132-145.	3.2	18
58	The miscibility and phase behavior of polyethylene with poly(dimethylsiloxane) in near-critical pentane. Korean Journal of Chemical Engineering, 2002, 19, 153-158.	2.7	17
59	Gradient blending of poly(dimethylsiloxane) with polystyrene and polyethylene in supercritical carbon dioxide. Journal of Supercritical Fluids, 2008, 44, 48-61.	3.2	17
60	Melting point depression of Piroxicam in carbon dioxide + co-solvent mixtures and inclusion complex formation with Î²-cyclodextrin. Journal of Supercritical Fluids, 2012, 71, 19-25.	3.2	17
61	High-pressure viscosity of polystyrene solutions in toluene + carbon dioxide binary mixtures. Journal of Applied Polymer Science, 2000, 75, 306-315.	2.6	16
62	Modeling of the volumetric properties and estimation of the solubility parameters of ionic liquid+ethanol mixtures with the Sanchezâ€“Lacombe and Simhaâ€“Somcynsky equations of state: [EMIM]Ac+ethanol and [EMIM]Cl+ethanol mixtures. Journal of Supercritical Fluids, 2015, 98, 86-101.	3.2	16
63	Volumetric Properties of Sulfur Hexafluoride + Pentane and Sulfur Hexafluoride + Toluene at High Pressures. Journal of Chemical & Engineering Data, 1997, 42, 389-394.	1.9	15
64	Miscibility of isotactic polypropylene in n-pentane and n-pentane + carbon dioxide mixtures at high pressures. Journal of Supercritical Fluids, 1998, 11, 173-177.	3.2	15
65	Volumetric Properties and Internal Pressure of Poly(Î±-olefin) Base Oils. Industrial & Engineering Chemistry Research, 2013, 52, 17725-17734.	3.7	15
66	A tunable mixture solvent for poly(Ɛ-caprolactone): Acetone+CO2. Polymer, 2007, 48, 5612-5625.	3.8	13
67	High-Pressure Torsional Braid Analysis (HP-TBA): A new technique for assessment of thermal transitions and changes in moduli of polymers exposed to supercritical or compressed fluids. Journal of Supercritical Fluids, 2019, 143, 223-231.	3.2	13
68	(p,V,T) Behaviour and miscibility of (polysulfone+THF+carbon dioxide) at high pressures. Journal of Chemical Thermodynamics, 2003, 35, 605-624.	2.0	12
69	High pressure density, miscibility and compressibility of poly(lactide-co-glycolide) solutions in acetone and acetone+CO2 binary fluid mixtures. Journal of Supercritical Fluids, 2013, 75, 159-171.	3.2	12
70	An automated high pressure PVT apparatus for continuous recording of density and isothermal compressibility of fluids. Review of Scientific Instruments, 1996, 67, 244-250.	1.3	11
71	Phase Boundaries and Crystallization of Polyethylene inn-Pentane andn-Pentane + Carbon Dioxide Fluid Mixtures. Industrial & Engineering Chemistry Research, 2006, 45, 1478-1492.	3.7	11
72	Cure behavior of paperâ€“phenolic composite systems: Kinetic modeling. Journal of Applied Polymer Science, 1994, 51, 353-364.	2.6	10

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73	Critical Polymer Concentrations of Polyethylene Solutions in Pentane. Journal of Chemical & Engineering Data, 2002, 47, 571-574.	1.9	10
74	Kinetics of pressure-induced phase separation in polystyrene+acetone solutions at high pressures. Polymer, 2006, 47, 7943-7952.	3.8	10
75	High-pressure crystallization and melting of polyethylene in n-pentane. Journal of Supercritical Fluids, 2006, 38, 406-419.	3.2	9
76	Modification of biomedical polymers in dense fluids. Miscibility and foaming of poly(p-dioxanone) in carbon dioxide+acetone fluid mixtures. Journal of Supercritical Fluids, 2012, 66, 372-379.	3.2	9
77	Linking thermophysical and rheological properties to the selection of CO2 foaming conditions of rubbery elastomers using the relative rigidity reduction path. Journal of Supercritical Fluids, 2020, 166, 105015.	3.2	9
78	Kinetic Model for Supercritical Delignification of Wood. ACS Symposium Series, 1989, , 317-331.	0.5	8
79	Viscosity of Polymer Solutions in Near-Critical and Supercritical Fluids. ACS Symposium Series, 1992, , 104-120.	0.5	8
80	Reliable method for determination of the velocity of a sinker in a high-pressure falling body type viscometer. Review of Scientific Instruments, 2002, 73, 3664-3670.	1.3	8
81	Miscibility, Phase Separation, and Phase Settlement Dynamics in Solutions of Ethyleneâ€“Propyleneâ€“Diene Monomer Elastomer in Propane + n-Octane Binary Fluid Mixtures at High Pressures. Industrial & Engineering Chemistry Research, 2013, 52, 1806-1818.	3.7	7
82	High Pressure Volumetric Properties and Viscosity of Base Oils Used in Automotive Lubricants and Their Modeling. Industrial & Engineering Chemistry Research, 2018, 57, 17266-17275.	3.7	7
83	Supercritical Fluid Processing in the Pulp and Paper and the Forest Products Industries. ACS Symposium Series, 1995, , 380-401.	0.5	6
84	Volumetric Properties and Solubility Parameters of Cyclohexane + CO₂ Mixtures at High Pressures and Their Modeling with the Sanchezâ€“Lacombe Equation of State. Industrial & Engineering Chemistry Research, 2017, 56, 8748-8766.	3.7	6
85	Dynamics of Pressure-Induced Phase Separation in Polymer Solutions. The Dependence of the Demixing Pressures on the Rate of Pressure Quench in Solutions of Poly(dimethylsiloxane) in Supercritical Carbon Dioxide. Industrial & Engineering Chemistry Research, 1999, 38, 4486-4490.	3.7	5
86	Development of ring-banded spherulitic morphologies and formation of radially oriented nano-pores in poly(3-hydroxybutyrate-co-3-hydroxyvalerate) during crystallization in CO2. Journal of Supercritical Fluids, 2015, 96, 359-368.	3.2	5
87	High-Pressure Density, Viscosity, and Modeling of Mixtures of a Poly(Î±-olefin) Base Oil Lubricant with Polymeric Additives. Industrial & Engineering Chemistry Research, 2020, 59, 7926-7942.	3.7	5
88	Current State of Supercritical Fluid Science and Technology. ACS Symposium Series, 1992, , 1-8.	0.5	4
89	Density and Viscosity as Real-Time Probes for Progress of High-Pressure Polymerizations: Polymerization of Methyl Methacrylate in Acetone. Industrial & Engineering Chemistry Research, 2008, 47, 5039-5047.	3.7	4
90	Phase behavior and density of polysulfone in binary fluid mixtures of tetrahydrofuran and carbon dioxide under high pressure: Miscibility windows. Journal of Applied Polymer Science, 2002, 86, 2357-2362.	2.6	3

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91	Gelation, crystallization and morphological transformations of syndiotactic polystyrene in acetophenone and acetophenone + carbon dioxide mixtures at high pressures. Journal of Supercritical Fluids, 2009, 49, 93-102.	3.2	3
92	Confined batch foaming of semiâ€crystalline rubbery elastomers with carbon dioxide using a mold. Journal of Applied Polymer Science, 2021, 138, 50698.	2.6	3
93	Miscibility, phase separation and volumetric properties in solutions of poly(É›-caprolactone) in acetone+CO2 binary fluid mixtures at high pressures. Journal of Supercritical Fluids, 2013, 84, 43-60.	3.2	2
94	Light scattering behavior and the kinetics of pressure-induced phase separation in solutions of poly(Îµ-caprolactone) in acetoneÂ+ÂCO2 binary fluid mixtures. Polymer, 2013, 54, 5719-5732.	3.8	2
95	Effect of Alkyl Chain Length on Derived Thermodynamic Properties of 1-Alkyl-3-methylimidizolium Chloride Ionic Liquids and Their Mixtures with Ethanol. Industrial & Engineering Chemistry Research, 2019, 58, 15649-15665.	3.7	2
96	Physical Foaming of an Ethylene/Acrylic Acid/n-Butyl Acrylate Ionomer with Carbon Dioxide. Industrial & Engineering Chemistry Research, 2021, 60, 14213-14224.	3.7	1
97	Miscibility, phase separation, and volumetric properties in solutions of poly(dimethylsiloxane) in supercritical carbon dioxide. Journal of Applied Polymer Science, 2000, 75, 1397.	2.6	1
98	Supercritical Fluid Extraction of Lignin from Wood. ACS Symposium Series, 1989, , 42-57.	0.5	0
99	Cover Image, Volume 138, Issue 26. Journal of Applied Polymer Science, 2021, 138, 50775.	2.6	0
100	Glass transition behavior of poly(methyl methacrylate) in compressed carbon dioxide revisited â€“ New perspectives. Thermochimica Acta, 2022, , 179250.	2.7	0