Keith P Johnston

List of Publications by Year
in descending order

357 papers	26,154 citations	3731 89 h-index	10158 140 g-index
361 all docs	361 docs citations	361 times ranked	19085 citing authors

#	Article	IF	Citations
1	Control of Thickness and Orientation of Solution-Grown Silicon Nanowires. Science, 2000, 287, 1471-1473.	12.6	1,496
2	Water electrolysis on La1â^'xSrxCoO3â^'Î´ perovskite electrocatalysts. Nature Communications, 2016, 7, 11053.	12.8	800
3	Anion charge storage through oxygen intercalation in LaMnO3 perovskite pseudocapacitor electrodes. Nature Materials, 2014, 13, 726-732.	27.5	589
4	Highly Luminescent Silicon Nanocrystals with Discrete Optical Transitions. Journal of the American Chemical Society, 2001, 123, 3743-3748.	13.7	466
5	Modelling the solubility of solids in supercritical fluids with density as the independent variable. Journal of Supercritical Fluids, 1988, 1, 15-22.	3.2	347
6	Drug Nanoparticles by Antisolvent Precipitation:Â Mixing Energy versus Surfactant Stabilization. Langmuir, 2006, 22, 8951-8959.	3.5	346
7	Nanoparticle Engineering Processes for Enhancing the Dissolution Rates of Poorly Water Soluble Drugs. Drug Development and Industrial Pharmacy, 2004, 30, 233-245.	2.0	318
8	Polymeric materials formed by precipitation with a compressed fluid antisolvent. AICHE Journal, 1993, 39, 127-139.	3.6	302
9	Highly Active, Nonprecious Metal Perovskite Electrocatalysts for Bifunctional Metalâ€“Air Battery Electrodes. Journal of Physical Chemistry Letters, 2013, 4, 1254-1259.	4.6	294
10	Atomic Ensemble and Electronic Effects in Ag-Rich AgPd Nanoalloy Catalysts for Oxygen Reduction in Alkaline Media. Journal of the American Chemical Society, 2012, 134, 9812-9819.	13.7	264
11	Water-in-Carbon Dioxide Microemulsions with a Fluorocarbon-Hydrocarbon Hybrid Surfactant. Langmuir, 1994, 10, 3536-3541.	3.5	263
12	Tuning the Electrocatalytic Activity of Perovskites through Active Site Variation and Support Interactions. Chemistry of Materials, 2014, 26, 3368-3376.	6.7	229
13	Water in Supercritical Carbon Dioxide Microemulsions:Â Spectroscopic Investigation of a New Environment for Aqueous Inorganic Chemistry. Journal of the American Chemical Society, 1997, 119, 6399-6406.	13.7	218
14	Nanostructured LaNiO₃ Perovskite Electrocatalyst for Enhanced Urea Oxidation. ACS Catalysis, 2016, 6, 5044-5051.	11.2	217
15	Molecular interactions in dilute supercritical fluid solutions. Industrial & Engineering Chemistry Research, 1987, 26, 1206-1213.	3.7	210
16	Solubilities of hydrocarbon solids in supercritical fluids. The augmented van der Waals treatment. Industrial & Engineering Chemistry Fundamentals, 1982, 21, 191-197.	0.7	208
17	Synthesis of Organic Monolayer-Stabilized Copper Nanocrystals in Supercritical Water. Journal of the American Chemical Society, 2001, 123, 7797-7803.	13.7	203
18	Dispersion Polymerization of Methyl Methacrylate Stabilized with Poly(1,1-dihydroperfluorooctyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	4.8	199

#	Article	IF	Citations
19	Formation of Poly(1,1,2,2-tetrahydroperfluorodecyl acrylate) Submicron Fibers and Particles from Supercritical Carbon Dioxide Solutions. Macromolecules, 1995, 28, 3182-3191.	4.8	189
20	Nanoparticle-stabilized carbon dioxide-in-water foams with fine texture. Journal of Colloid and Interface Science, 2013, 391, 142-151.	9.4	189
21	Nonpolar co-solvents for solubility enhancement in supercritical fluid carbon dioxide. Journal of Chemical & Engineering Data, 1986, 31, 303-308.	1.9	187
22	Small Multifunctional Nanoclusters (Nanoroses) for Targeted Cellular Imaging and Therapy. ACS Nano, 2009, 3, 2686-2696.	14.6	187
23	MATERIALS SCIENCE: Enhanced: Making Nanoscale Materials with Supercritical Fluids. Science, 2004, 303, 482-483.	12.6	183
24	Carbon Dioxide-Induced Plasticization of Polyimide Membranes:Â Pseudo-Equilibrium Relationships of Diffusion, Sorption, and Swelling. Macromolecules, 2003, 36, 6433-6441.	4.8	180
25	Wetting Phenomena at the CO2/Water/Glass Interface. Langmuir, 2006, 22, 2161-2170.	3.5	177
26	Effect of Surfactants on the Interfacial Tension and Emulsion Formation between Water and Carbon Dioxide. Langmuir, 1999, 15, 419-428.	3.5	174
27	Controlled Assembly of Biodegradable Plasmonic Nanoclusters for Near-Infrared Imaging and Therapeutic Applications. ACS Nano, 2010, 4, 2178-2184.	14.6	171
28	Nanocrystal and Nanowire Synthesis and Dispersibility in Supercritical Fluids. Journal of Physical Chemistry B, 2004, 108, 9574-9587.	2.6	169
29	Microencapsulation of proteins by rapid expansion of supercritical solution with a nonsolvent. AICHE Journal, 2000, 46, 857-865.	3.6	167
30	Polymeric microspheres prepared by spraying into compressed carbon dioxide. Pharmaceutical Research, 1995, 12, 1211-1217.	3.5	163
31	Quantitative Equilibrium Constants between CO2and Lewis Bases from FTIR Spectroscopy. The Journal of Physical Chemistry, 1996, 100, 10837-10848.	2.9	161
32	Exceptional electrocatalytic oxygen evolution via tunable charge transfer interactions in La0.5Sr1.5Ni1â^'xFexO4Â±Î´ Ruddlesden-Popper oxides. Nature Communications, 2018, 9, 3150.	12.8	161
33	Enhanced drug dissolution using evaporative precipitation into aqueous solution. International Journal of Pharmaceutics, 2002, 243, 17-31.	5.2	159
34	Contact Angle of Water on Polystyrene Thin Films:â€‰ Effects of CO₂ Environment and Film Thickness. Langmuir, 2007, 23, 9785-9793.	3.5	157
35	Water-in-Carbon Dioxide Emulsions:Â Formation and Stability. Langmuir, 1999, 15, 6781-6791.	3.5	155
36	Water-in-Carbon Dioxide Microemulsions with Methylated Branched Hydrocarbon Surfactants. Industrial & Engineering Chemistry Research, 2003, 42, 6348-6358.	3.7	155

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37	Preparation of cyclosporine A nanoparticles by evaporative precipitation into aqueous solution. International Journal of Pharmaceutics, 2002, 242, 3-14.	5.2	152
38	Modeling supercritical mixtures: how predictive is it?. Industrial & Engineering Chemistry Research, 1989, 28, 1115-1125.	3.7	144
39	Design of Potent Amorphous Drug Nanoparticles for Rapid Generation of Highly Supersaturated Media. Molecular Pharmaceutics, 2007, 4, 782-793.	4.6	141
40	Growth of Single Crystal Silicon Nanowires in Supercritical Solution from Tethered Gold Particles on a Silicon Substrate. Nano Letters, 2003, 3, 93-99.	9.1	137
41	Electrogenerated Chemiluminescence of Ge Nanocrystals. Nano Letters, 2004, 4, 183-185.	9.1	137
42	Solubilization in nonionic reverse micelles in carbon dioxide. AICHE Journal, 1994, 40, 543-555.	3.6	136
43	Nanoparticle-Stabilized Supercritical CO2 Foams for Potential Mobility Control Applications. , 2010, , .		136
44	Spectroscopic studies of p-(N,N-dimethylamino)benzonitrile and ethyl p-(N,N-dimethylamino)benzoate in supercritical trifluoromethane, carbon dioxide, and ethane. Journal of the American Chemical Society, 1992, 114, 1187-1194.	13.7	133
45	Solution-Based Particle Formation of Pharmaceutical Powders by Supercritical or Compressed Fluid Co2and Cryogenic Spray-Freezing Technologies. Drug Development and Industrial Pharmacy, 2001, 27, 1003-1015.	2.0	133
46	Size-dependent properties of silica nanoparticles for Pickering stabilization of emulsions and foams. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	129
47	Selectivities in pure and mixed supercritical fluid solvents. Industrial & Engineering Chemistry Research, 1987, 26, 1476-1482.	3.7	128
48	Morphology and Stability of CO₂-in-Water Foams with Nonionic Hydrocarbon Surfactants. Langmuir, 2010, 26, 5335-5348.	3.5	128
49	A novel particle engineering technology to enhance dissolution of poorly water soluble drugs: spray-freezing into liquid. European Journal of Pharmaceutics and Biopharmaceutics, 2002, 54, 271-280.	4.3	127
50	A novel particle engineering technology: spray-freezing into liquid. International Journal of Pharmaceutics, 2002, 242, 93-100.	5.2	127
51	Synthesis of Cadmium Sulfide Q Particles in Water-in-CO2Microemulsions. Langmuir, 1999, 15, 6613-6615.	3.5	125
52	Spray freezing into liquid (SFL) particle engineering technology to enhance dissolution of poorly water soluble drugs: organic solvent versus organic/aqueous co-solvent systems. European Journal of Pharmaceutical Sciences, 2003, 20, 295-303.	4.0	125
53	Rapid Expansion from Supercritical to Aqueous Solution to Produce Submicron Suspensions of Water-Insoluble Drugs. Biotechnology Progress, 2000, 16, 402-407.	2.6	123
54	Viscosity and stability of ultra-high internal phase CO2-in-water foams stabilized with surfactants and nanoparticles with or without polyelectrolytes. Journal of Colloid and Interface Science, 2016, 461, 383-395.	9.4	123

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55	Enhanced Catalyst Reactivity and Separations Using Water/Carbon Dioxide Emulsions. Journal of the American Chemical Society, 1999, 121, 11902-11903.	13.7	122
56	Steric Stabilization of Nanocrystals in Supercritical CO2 Using Fluorinated Ligands. Journal of the American Chemical Society, 2000, 122, 4245-4246.	13.7	122
57	Stabilization of Carbon Dioxide-in-Water Emulsions with Silica Nanoparticles. Langmuir, 2004, 20, 7976-7983.	3.5	121
58	Comparison of bioavailability of amorphous versus crystalline itraconazole nanoparticles via pulmonary administration in rats. European Journal of Pharmaceutics and Biopharmaceutics, 2010, 75, 33-41.	4.3	119
59	Size-Selective Dispersion of Dodecanethiol-Coated Nanocrystals in Liquid and Supercritical Ethane by Density Tuning. Journal of Physical Chemistry B, 2002, 106, 2545-2551.	2.6	118
60	Highly Stable and Active Ptâ^'Cu Oxygen Reduction Electrocatalysts Based on Mesoporous Graphitic Carbon Supports. Chemistry of Materials, 2009, 21, 4515-4526.	6.7	109
61	Improvement of dissolution rates of poorly water soluble APIs using novel spray freezing into liquid technology. Pharmaceutical Research, 2002, 19, 1278-1284.	3.5	107
62	High Yield Solutionâ^'Liquidâ^'Solid Synthesis of Germanium Nanowires. Journal of the American Chemical Society, 2005, 127, 15718-15719.	13.7	107
63	Molecular thermodynamics of solubilities in gas antisolvent crystallization. AICHE Journal, 1991, 37, 1441-1449.	3.6	106
64	Synthesis of Germanium Nanocrystals in High Temperature Supercritical Fluid Solvents. Nano Letters, 2004, 4, 969-974.	9.1	106
65	High bioavailability from nebulized itraconazole nanoparticle dispersions with biocompatible stabilizers. International Journal of Pharmaceutics, 2008, 361, 177-188.	5.2	106
66	Effect of branching on the interfacial properties of nonionic hydrocarbon surfactants at the airâ€“water and carbon dioxideâ€“water interfaces. Journal of Colloid and Interface Science, 2010, 346, 455-463.	9.4	106
67	Molecular Engineering of Hydrogels for Rapid Water Disinfection and Sustainable Solar Vapor Generation. Advanced Materials, 2021, 33, e2102994.	21.0	105
68	Formation of microporous polymer fibers and oriented fibrils by precipitation with a compressed fluid antisolvent. Journal of Applied Polymer Science, 1993, 50, 1929-1942.	2.6	104
69	Microcellular microspheres and microballoons by precipitation with a vapour-liquid compressed fluid antisolvent. Polymer, 1994, 35, 3998-4005.	3.8	104
70	Novel ultra-rapid freezing particle engineering process for enhancement of dissolution rates of poorly water-soluble drugs. European Journal of Pharmaceutics and Biopharmaceutics, 2007, 65, 57-67.	4.3	104
71	Concentrated Dispersions of Equilibrium Protein Nanoclusters That Reversibly Dissociate into Active Monomers. ACS Nano, 2012, 6, 1357-1369.	14.6	104
72	Adjustable solute distribution between polymers and supercritical fluids. AICHE Journal, 1989, 35, 1097-1106.	3.6	103

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73	Switchable Nonionic to Cationic Ethoxylated Amine Surfactants for CO2 Enhanced Oil Recovery in High-Temperature, High-Salinity Carbonate Reservoirs. SPE Journal, 2014, 19, 249-259.	3.1	103
74	Spray freezing into liquid versus spray-freeze drying: Influence of atomization on protein aggregation and biological activity. European Journal of Pharmaceutical Sciences, 2006, 27, 9-18.	4.0	102
75	Water Core within Perfluoropolyether-Based Microemulsions Formed in Supercritical Carbon Dioxide. Journal of Physical Chemistry B, 1997, 101, 6707-6714.	2.6	101
76	Organic Synthesis in Water/Carbon Dioxide Microemulsions. Journal of Organic Chemistry, 1999, 64, 1201-1206.	3.2	101
77	Polar and hydrogen-bonding interactions in supercritical fluids: effects on the tautomeric equilibrium of 4-(phenylazo)-1-naphthol. The Journal of Physical Chemistry, 1991, 95, 7863-7867.	2.9	99
78	Steric stabilization of nanoparticles with grafted low molecular weight ligands in highly concentrated brines including divalent ions. Soft Matter, 2016, 12, 2025-2039.	2.7	99
79	Enhanced Electrocatalytic Activities by Substitutional Tuning of Nickel-Based Ruddlesdenâ€“Popper Catalysts for the Oxidation of Urea and Small Alcohols. ACS Catalysis, 2019, 9, 2664-2673.	11.2	99
80	Poly(vinyl acetate) and Poly(vinyl acetate-co-ethylene) Latexes via Dispersion Polymerizations in Carbon Dioxide. Macromolecules, 1998, 31, 6794-6805.	4.8	97
81	High Yield of Germanium Nanocrystals Synthesized from Germanium Diiodide in Solution. Chemistry of Materials, 2005, 17, 6479-6485.	6.7	97
82	Colloids in supercritical fluids over the last 20 years and future directions. Journal of Supercritical Fluids, 2009, 47, 523-530.	3.2	97
83	Catalysis in supercritical CO2 using dendrimer-encapsulated palladium nanoparticles. Chemical Communications, 2001, , 2290-2291.	4.1	96
84	Nanocrystal Arrested Precipitation in Supercritical Carbon Dioxide. Journal of Physical Chemistry B, 2001, 105, 9433-9440.	2.6	96
85	Effect of Stabilizer on the Maximum Degree and Extent of Supersaturation and Oral Absorption of Tacrolimus Made By Ultra-Rapid Freezing. Pharmaceutical Research, 2008, 25, 167-175.	3.5	95
86	Coaxial nozzle for control of particle morphology in precipitation with a compressed fluid antisolvent. Journal of Applied Polymer Science, 1997, 64, 2105-2118.	2.6	94
87	Encapsulation of lysozyme in a biodegradable polymer by precipitation with a vapor-over-liquid antisolvent. Journal of Pharmaceutical Sciences, 1999, 88, 640-650.	3.3	94
88	Buffering the Aqueous Phase pH in Water-in-CO2Microemulsions. Journal of Physical Chemistry B, 1999, 103, 5703-5711.	2.6	94
89	Concentrated CO2-in-Water Emulsions with Nonionic Polymeric Surfactants. Journal of Colloid and Interface Science, 2001, 239, 241-253.	9.4	93
90	Synthesis of TiO2Nanoparticles Utilizing Hydrated Reverse Micelles in CO2. Langmuir, 2004, 20, 2466-2471.	3.5	93

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91	High internal phase CO2-in-water emulsions stabilized with a branched nonionic hydrocarbon surfactant. Journal of Colloid and Interface Science, 2006, 298, 406-418.	9.4	90
92	Synergistic Formation and Stabilization of Oil-in-Water Emulsions by a Weakly Interacting Mixture of Zwitterionic Surfactant and Silica Nanoparticles. Langmuir, 2014, 30, 984-994.	3.5	90
93	Role of Steric Stabilization on the Arrested Growth of Silver Nanocrystals in Supercritical Carbon Dioxide. Journal of Physical Chemistry B, 2002, 106, 12178-12185.	2.6	89
94	Enhanced aqueous dissolution of a poorly water soluble drug by novel particle engineering technology: spray-freezing into liquid with atmospheric freeze-drying. Pharmaceutical Research, 2003, 20, 485-493.	3.5	89
95	Iron Oxide Nanoparticles Grafted with Sulfonated Copolymers are Stable in Concentrated Brine at Elevated Temperatures and Weakly Adsorb on Silica. ACS Applied Materials & Interfaces, 2013, 5, 3329-3339.	8.0	89
96	Static Adsorption of an Ethoxylated Nonionic Surfactant on Carbonate Minerals. Langmuir, 2016, 32, 10244-10252.	3.5	89
97	Carbon dioxide/water foams stabilized with a zwitterionic surfactant at temperatures up to 150â€Â°C in high salinity brine. Journal of Petroleum Science and Engineering, 2018, 166, 880-890.	4.2	86
98	Relationship between polymer chain conformation and phase boundaries in a supercritical fluid. Journal of Chemical Physics, 1997, 107, 10782-10792.	3.0	85
99	High pseudocapacitance of MnO2 nanoparticles in graphitic disordered mesoporous carbon at high scan rates. Journal of Materials Chemistry, 2012, 22, 3160.	6.7	85
100	Effect of Surfactants on the Interfacial Tension between Supercritical Carbon Dioxide and Polyethylene Glycol. Langmuir, 1996, 12, 2637-2644.	3.5	84
101	Molecular Differences between Hydrocarbon and Fluorocarbon Surfactants at the CO2/Water Interface. Journal of Physical Chemistry B, 2003, 107, 10185-10192.	2.6	84
102	Single dose and multiple dose studies of itraconazole nanoparticles. European Journal of Pharmaceutics and Biopharmaceutics, 2006, 63, 95-102.	4.3	83
103	Theory of hydrogen bonding in supercritical fluids. AICHE Journal, 1992, 38, 1243-1253.	3.6	80
104	Preparation and characterization of microparticles containing peptide produced by a novel process: spray freezing into liquid. European Journal of Pharmaceutics and Biopharmaceutics, 2002, 54, 221-228.	4.3	80
105	Relaxation Dynamics of CO2Diffusion, Sorption, and Polymer Swelling for Plasticized Polyimide Membranes. Macromolecules, 2003, 36, 6442-6448.	4.8	80
106	Rapid dissolving high potency danazol powders produced by spray freezing into liquid process. International Journal of Pharmaceutics, 2004, 271, 145-154.	5.2	80
107	Formation of Stable Submicron Protein Particles by Thin Film Freezing. Pharmaceutical Research, 2008, 25, 1334-1346.	3.5	80
108	Bifunctional Catalysts for Alkaline Oxygen Reduction Reaction via Promotion of Ligand and Ensemble Effects at Ag/MnO_x Nanodomains. Journal of Physical Chemistry C, 2012, 116, 11032-11039.	3.1	79

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109	Charged Gold Nanoparticles with Essentially Zero Serum Protein Adsorption in Undiluted Fetal Bovine Serum. Journal of the American Chemical Society, 2013, 135, 7799-7802.	13.7	79
110	Hybrid MnO₂â€“disordered mesoporous carbon nanocomposites: synthesis and characterization as electrochemical pseudocapacitor electrodes. Journal of Materials Chemistry, 2010, 20, 390-398.	6.7	78
111	Modified Montmorillonite Clay Microparticles for Stable Oil-in-Seawater Emulsions. ACS Applied Materials & Interfaces, 2014, 6, 11502-11513.	8.0	78
112	Mobility of Ethomeen C12 and Carbon Dioxide (CO2) Foam at High Temperature/High Salinity and in Carbonate Cores. SPE Journal, 2016, 21, 1151-1163.	3.1	78
113	High temperature ultralow water content carbon dioxide-in-water foam stabilized with viscoelastic zwitterionic surfactants. Journal of Colloid and Interface Science, 2017, 488, 79-91.	9.4	77
114	Semicrystalline microfibrils and hollow fibres by precipitation with a compressed-fluid antisolvent. Polymer, 1995, 36, 3173-3182.	3.8	76
115	Interfacial Thermodynamics of Surfactants at the CO2â^'Water Interface. Langmuir, 2000, 16, 3690-3695.	3.5	76
116	Effect of Grafted Copolymer Composition on Iron Oxide Nanoparticle Stability and Transport in Porous Media at High Salinity. Energy & Fuels, 2014, 28, 3655-3665.	5.1	76
117	Water-in-carbon dioxide emulsions stabilized with hydrophobic silica particles. Physical Chemistry Chemical Physics, 2007, 9, 6333.	2.8	74
118	Low Interfacial Free Volume of Stubby Surfactants Stabilizes Water-in-Carbon Dioxide Microemulsions. Journal of Physical Chemistry B, 2004, 108, 1962-1966.	2.6	72
119	Theoretical and experimental investigation of the motion of multiphase fluids containing paramagnetic nanoparticles in porous media. Journal of Petroleum Science and Engineering, 2012, 81, 129-144.	4.2	72
120	Graphene oxide nanoplatelet dispersions in concentrated NaCl and stabilization of oil/water emulsions. Journal of Colloid and Interface Science, 2013, 403, 1-6.	9.4	72
121	Ultradry Carbon Dioxide-in-Water Foams with Viscoelastic Aqueous Phases. Langmuir, 2016, 32, 28-37.	3.5	71
122	Carbon Dioxide-in-Water Microemulsions. Journal of the American Chemical Society, 2003, 125, 3181-3189.	13.7	70
123	Spray freezing into liquid nitrogen for highly stable protein nanostructured microparticles. European Journal of Pharmaceutics and Biopharmaceutics, 2004, 58, 529-537.	4.3	70
124	Highly Elastic Interconnected Porous Hydrogels through Selfâ€Assembled Templating for Solar Water Purification. Angewandte Chemie - International Edition, 2022, 61, e202114074.	13.8	70
125	Water-in-Carbon Dioxide Emulsions with Poly(dimethylsiloxane)-Based Block Copolymer Ionomers. Industrial & Engineering Chemistry Research, 2000, 39, 2655-2664.	3.7	69
126	Stabilized Polymer Microparticles by Precipitation with a Compressed Fluid Antisolvent. 1. Poly(fluoro) Tj ETQq0 0 0 rgBT /Overlock 10 T	4.8	67

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127	Water in Carbon Dioxide Macroemulsions and Miniemulsions with a Hydrocarbon Surfactant. Langmuir, 2001, 17, 7191-7193.	3.5	67
128	CO₂-in-Water Foam at Elevated Temperature and Salinity Stabilized with a Nonionic Surfactant with a High Degree of Ethoxylation. Industrial & Engineering Chemistry Research, 2015, 54, 4252-4263.	3.7	67
129	Surfactant-Modified CO2â^'Water Interface:â€‰ A Molecular View. Journal of Physical Chemistry B, 2002, 106, 13250-13261.	2.6	66
130	Amorphous cyclosporin nanodispersions for enhanced pulmonary deposition and dissolution. Journal of Pharmaceutical Sciences, 2008, 97, 4915-4933.	3.3	66
131	Effect of Adsorbed Amphiphilic Copolymers on the Interfacial Activity of Superparamagnetic Nanoclusters and the Emulsification of Oil in Water. Macromolecules, 2012, 45, 5157-5166.	4.8	66
132	Synthesis and properties of semifluorinated block copolymers containing poly(ethylene oxide) and poly(fluorooctyl methacrylates) via atom transfer radical polymerisation. Polymer, 2002, 43, 7043-7049.	3.8	65
133	Turbidimetric measurement and prediction of dissolution rates of poorly soluble drug nanocrystals. Journal of Controlled Release, 2007, 117, 351-359.	9.9	65
134	Stabilization of Iron Oxide Nanoparticles in High Sodium and Calcium Brine at High Temperatures with Adsorbed Sulfonated Copolymers. Langmuir, 2013, 29, 3195-3206.	3.5	65
135	Phase behavior of AOT microemulsions in compressible liquids. The Journal of Physical Chemistry, 1991, 95, 4889-4896.	2.9	64
136	Targeted High Lung Concentrations of Itraconazole Using Nebulized Dispersions in a Murine Model. Pharmaceutical Research, 2006, 23, 901-911.	3.5	64
137	Solid-liquid-gas equilibria in multicomponent supercritical fluid systems. Fluid Phase Equilibria, 1989, 45, 265-286.	2.5	63
138	Stable Citrate-Coated Iron Oxide Superparamagnetic Nanoclusters at High Salinity. Industrial & Engineering Chemistry Research, 2010, 49, 12435-12443.	3.7	63
139	Inverse Opal Nanocrystal Superlattice Films. Nano Letters, 2004, 4, 1943-1948.	9.1	61
140	Kinetic Assembly of Near-IR-Active Gold Nanoclusters Using Weakly Adsorbing Polymers to Control the Size. Langmuir, 2010, 26, 8988-8999.	3.5	60
141	Anion-Based Pseudocapacitance of the Perovskite Library La_{1â€“x}Sr_xBO_{3â^'Î´} (B = Fe, Mn, Co). ACS Applied Materials & Interfaces, 2019, 11, 5084-5094.	8.0	60
142	Stubby Surfactants for Stabilization of Water and CO2Emulsions:Â Trisiloxanes. Langmuir, 2003, 19, 3114-3120.	3.5	59
143	Viscoelastic diamine surfactant for stable carbon dioxide/water foams over a wide range in salinity and temperature. Journal of Colloid and Interface Science, 2018, 522, 151-162.	9.4	59
144	Molecular thermodynamics of solute-polymer-supercritical fluid systems. AICHE Journal, 1991, 37, 607-616.	3.6	57

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145	Stabilized Polymer Microparticles by Precipitation with a Compressed Fluid Antisolvent. 2. Poly(propylene oxide)- and Poly(butylene oxide)-Based Copolymers. Langmuir, 1997, 13, 1519-1528.	3.5	57
146	UVâ^'Vis Spectroscopic Determination of the Dissociation Constant of Bichromate from 160 to 400 Â°C. Journal of Physical Chemistry B, 1998, 102, 3993-4003.	2.6	57
147	Micronized powders of a poorly water soluble drug produced by a spray-freezing into liquid-emulsion process. European Journal of Pharmaceutics and Biopharmaceutics, 2003, 55, 161-172.	4.3	57
148	Phase behavior and interfacial properties of a switchable ethoxylated amine surfactant at high temperature and effects on CO2-in-water foams. Journal of Colloid and Interface Science, 2016, 470, 80-91.	9.4	56
149	Phase behavior of poly(1,1-dihydroperfluorooctylacrylate) in supercritical carbon dioxide. Fluid Phase Equilibria, 1998, 146, 325-337.	2.5	55
150	Theory of Polymer Adsorption and Colloid Stabilization in Supercritical Fluids. 2. Copolymer and End-Grafted Stabilizers. Macromolecules, 1998, 31, 5518-5528.	4.8	55
151	ADJUSTMENT OF THE SELECTIVITY OF A DIELS-ALDER REACTION NETWORK USING SUPERCRITICAL FLUIDS. Chemical Engineering Communications, 1988, 63, 49-59.	2.6	54
152	Structure of End-Grafted Polymer Brushes in Liquid and Supercritical Carbon Dioxide:Â A Neutron Reflectivity Study. Macromolecules, 2003, 36, 3365-3373.	4.8	54
153	Partition Coefficients and Polymerâ^'Solute Interaction Parameters by Inverse Supercritical Fluid Chromatography. Industrial & Engineering Chemistry Research, 1996, 35, 1115-1123.	3.7	53
154	Percolation in Concentrated Water-in-Carbon Dioxide Microemulsions. Journal of Physical Chemistry B, 2000, 104, 4448-4456.	2.6	53
155	Flocculated Amorphous Nanoparticles for Highly Supersaturated Solutions. Pharmaceutical Research, 2008, 25, 2477-2487.	3.5	53
156	Interfacial Properties of Fluorocarbon and Hydrocarbon Phosphate Surfactants at the Waterâ^'CO2Interface. Industrial & Engineering Chemistry Research, 2005, 44, 1370-1380.	3.7	52
157	Morphology of protein particles produced by spray freezing of concentrated solutions. European Journal of Pharmaceutics and Biopharmaceutics, 2007, 65, 149-162.	4.3	52
158	Rapidly dissolving repaglinide powders produced by the ultra-rapid freezing process. AAPS PharmSciTech, 2007, 8, E52-E60.	3.3	52
159	Superparamagnetic nanoclusters coated with oleic acid bilayers for stabilization of emulsions of water and oil at low concentration. Journal of Colloid and Interface Science, 2010, 351, 225-232.	9.4	52
160	Reverse micelles in supercritical fluids. 3. Amino acid solubilization in ethane and propane. The Journal of Physical Chemistry, 1990, 94, 6021-6028.	2.9	51
161	Stabilizer choice for rapid dissolving high potency itraconazole particles formed by evaporative precipitation into aqueous solution. International Journal of Pharmaceutics, 2005, 302, 113-124.	5.2	51
162	Supersaturation Produces High Bioavailability of Amorphous Danazol Particles Formed by Evaporative Precipitation into Aqueous Solution and Spray Freezing into Liquid Technologies. Drug Development and Industrial Pharmacy, 2006, 32, 559-567.	2.0	51

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163	Equilibrium Gold Nanoclusters Quenched with Biodegradable Polymers. ACS Nano, 2013, 7, 239-251.	14.6	51
164	Lattice fluid self-consistent field theory of surfaces with anchored chains. Macromolecules, 1993, 26, 1537-1545.	4.8	50
165	Phase behavior of nonionic surfactant/oil/water systems containing light alkanes. Langmuir, 1993, 9, 2942-2948.	3.5	50
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