

# Keith P Johnston

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/2833132/keith-p-johnston-publications-by-citations.pdf>

**Version:** 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

352  
papers

22,231  
citations

83  
h-index

129  
g-index

361  
ext. papers

24,049  
ext. citations

5.7  
avg, IF

6.78  
L-index

#	Paper	IF	Citations
352	Control of thickness and orientation of solution-grown silicon nanowires. <i>Science</i> , <b>2000</b> , 287, 1471-3	33.3	1369
351	Water electrolysis on La(1-x)Sr(x)CoO(3- $\delta$ ) perovskite electrocatalysts. <i>Nature Communications</i> , <b>2016</b> , 7, 11053	17.4	550
350	Anion charge storage through oxygen intercalation in LaMnO <sub>3</sub> perovskite pseudocapacitor electrodes. <i>Nature Materials</i> , <b>2014</b> , 13, 726-32	27	442
349	Highly luminescent silicon nanocrystals with discrete optical transitions. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 3743-8	16.4	429
348	Drug nanoparticles by antisolvent precipitation: mixing energy versus surfactant stabilization. <i>Langmuir</i> , <b>2006</b> , 22, 8951-9	4	300
347	Nanoparticle engineering processes for enhancing the dissolution rates of poorly water soluble drugs. <i>Drug Development and Industrial Pharmacy</i> , <b>2004</b> , 30, 233-45	3.6	286
346	Modelling the solubility of solids in supercritical fluids with density as the independent variable. <i>Journal of Supercritical Fluids</i> , <b>1988</b> , 1, 15-22	4.2	283
345	Polymeric materials formed by precipitation with a compressed fluid antisolvent. <i>AIChE Journal</i> , <b>1993</b> , 39, 127-139	3.6	273
344	Highly Active, Nonprecious Metal Perovskite Electrocatalysts for Bifunctional Metal-Air Battery Electrodes. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 1254-9	6.4	258
343	Water-in-Carbon Dioxide Microemulsions with a Fluorocarbon-Hydrocarbon Hybrid Surfactant. <i>Langmuir</i> , <b>1994</b> , 10, 3536-3541	4	244
342	Atomic ensemble and electronic effects in Ag-rich AgPd nanoalloy catalysts for oxygen reduction in alkaline media. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 9812-9	16.4	225
341	Water in Supercritical Carbon Dioxide Microemulsions: Spectroscopic Investigation of a New Environment for Aqueous Inorganic Chemistry. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 6399-6406	16.4	197
340	Tuning the Electrocatalytic Activity of Perovskites through Active Site Variation and Support Interactions. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 3368-3376	9.6	196
339	Synthesis of organic monolayer-stabilized copper nanocrystals in supercritical water. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 7797-803	16.4	187
338	Solubilities of hydrocarbon solids in supercritical fluids. The augmented van der Waals treatment. <i>Industrial &amp; Engineering Chemistry Fundamentals</i> , <b>1982</b> , 21, 191-197		182
337	Dispersion Polymerization of Methyl Methacrylate Stabilized with Poly(1,1-dihydroperfluorooctyl acrylate) in Supercritical Carbon Dioxide. <i>Macromolecules</i> , <b>1995</b> , 28, 8159-8166	5.5	178
336	Small multifunctional nanoclusters (nanoroses) for targeted cellular imaging and therapy. <i>ACS Nano</i> , <b>2009</b> , 3, 2686-96	16.7	174

335	Formation of Poly(1,1,2,2-tetrahydroperfluorodecyl acrylate) Submicron Fibers and Particles from Supercritical Carbon Dioxide Solutions. <i>Macromolecules</i> , <b>1995</b> , 28, 3182-3191	5.5	172
334	Molecular interactions in dilute supercritical fluid solutions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1987</b> , 26, 1206-1213	3.9	172
333	Materials science. Making nanoscale materials with supercritical fluids. <i>Science</i> , <b>2004</b> , 303, 482-3	33.3	167
332	Nonpolar co-solvents for solubility enhancement in supercritical fluid carbon dioxide. <i>Journal of Chemical &amp; Engineering Data</i> , <b>1986</b> , 31, 303-308	2.8	162
331	Nanocrystal and Nanowire Synthesis and Dispersibility in Supercritical Fluids. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 9574-9587	3.4	158
330	Carbon Dioxide-Induced Plasticization of Polyimide Membranes: Pseudo-Equilibrium Relationships of Diffusion, Sorption, and Swelling. <i>Macromolecules</i> , <b>2003</b> , 36, 6433-6441	5.5	156
329	Nanostructured LaNiO <sub>3</sub> Perovskite Electrocatalyst for Enhanced Urea Oxidation. <i>ACS Catalysis</i> , <b>2016</b> , 6, 5044-5051	13.1	156
328	Wetting phenomena at the CO <sub>2</sub> /water/glass interface. <i>Langmuir</i> , <b>2006</b> , 22, 2161-70	4	152
327	Effect of Surfactants on the Interfacial Tension and Emulsion Formation between Water and Carbon Dioxide. <i>Langmuir</i> , <b>1999</b> , 15, 419-428	4	151
326	Controlled assembly of biodegradable plasmonic nanoclusters for near-infrared imaging and therapeutic applications. <i>ACS Nano</i> , <b>2010</b> , 4, 2178-84	16.7	149
325	Nanoparticle-stabilized carbon dioxide-in-water foams with fine texture. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 391, 142-51	9.3	146
324	Quantitative Equilibrium Constants between CO <sub>2</sub> and Lewis Bases from FTIR Spectroscopy. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 10837-10848		145
323	Microencapsulation of proteins by rapid expansion of supercritical solution with a nonsolvent. <i>AIChE Journal</i> , <b>2000</b> , 46, 857-865	3.6	143
322	Water-in-Carbon Dioxide Emulsions: Formation and Stability. <i>Langmuir</i> , <b>1999</b> , 15, 6781-6791	4	141
321	Polymeric microspheres prepared by spraying into compressed carbon dioxide. <i>Pharmaceutical Research</i> , <b>1995</b> , 12, 1211-7	4.5	141
320	Water-in-Carbon Dioxide Microemulsions with Methylated Branched Hydrocarbon Surfactants. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2003</b> , 42, 6348-6358	3.9	140
319	Enhanced drug dissolution using evaporative precipitation into aqueous solution. <i>International Journal of Pharmaceutics</i> , <b>2002</b> , 243, 17-31	6.5	139
318	Contact angle of water on polystyrene thin films: effects of CO <sub>2</sub> environment and film thickness. <i>Langmuir</i> , <b>2007</b> , 23, 9785-93	4	130

317	Preparation of cyclosporine A nanoparticles by evaporative precipitation into aqueous solution. <i>International Journal of Pharmaceutics</i> , <b>2002</b> , 242, 3-14	6.5	130
316	Modeling supercritical mixtures: how predictive is it?. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1989</b> , 28, 1115-1125	3.9	130
315	Growth of Single Crystal Silicon Nanowires in Supercritical Solution from Tethered Gold Particles on a Silicon Substrate. <i>Nano Letters</i> , <b>2003</b> , 3, 93-99	11.5	129
314	Electrogenerated Chemiluminescence of Ge Nanocrystals. <i>Nano Letters</i> , <b>2004</b> , 4, 183-185	11.5	127
313	Design of potent amorphous drug nanoparticles for rapid generation of highly supersaturated media. <i>Molecular Pharmaceutics</i> , <b>2007</b> , 4, 782-93	5.6	126
312	Solubilization in nonionic reverse micelles in carbon dioxide. <i>AIChE Journal</i> , <b>1994</b> , 40, 543-555	3.6	123
311	Selectivities in pure and mixed supercritical fluid solvents. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1987</b> , 26, 1476-1482	3.9	116
310	Spectroscopic studies of p-(N,N-dimethylamino)benzotrile and ethyl p-(N,N-dimethylamino)benzoate in supercritical trifluoromethane, carbon dioxide, and ethane. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 1187-1194	16.4	115
309	A novel particle engineering technology to enhance dissolution of poorly water soluble drugs: spray-freezing into liquid. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2002</b> , 54, 271-80	5.7	114
308	Solution-based particle formation of pharmaceutical powders by supercritical or compressed fluid CO <sub>2</sub> and cryogenic spray-freezing technologies. <i>Drug Development and Industrial Pharmacy</i> , <b>2001</b> , 27, 1003-15	3.6	113
307	Steric Stabilization of Nanocrystals in Supercritical CO <sub>2</sub> Using Fluorinated Ligands. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 4245-4246	16.4	112
306	Synthesis of Cadmium Sulfide Q Particles in Water-in-CO <sub>2</sub> Microemulsions. <i>Langmuir</i> , <b>1999</b> , 15, 6613-6617	11.5	112
305	A novel particle engineering technology: spray-freezing into liquid. <i>International Journal of Pharmaceutics</i> , <b>2002</b> , 242, 93-100	6.5	111
304	Size-Selective Dispersion of Dodecanethiol-Coated Nanocrystals in Liquid and Supercritical Ethane by Density Tuning. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 2545-2551	3.4	110
303	Exceptional electrocatalytic oxygen evolution via tunable charge transfer interactions in LaSrNiFeO Ruddlesden-Popper oxides. <i>Nature Communications</i> , <b>2018</b> , 9, 3150	17.4	108
302	Stabilization of carbon dioxide-in-water emulsions with silica nanoparticles. <i>Langmuir</i> , <b>2004</b> , 20, 7976-834	11.5	108
301	Morphology and stability of CO <sub>2</sub> -in-water foams with nonionic hydrocarbon surfactants. <i>Langmuir</i> , <b>2010</b> , 26, 5335-48	4	107
300	Comparison of bioavailability of amorphous versus crystalline itraconazole nanoparticles via pulmonary administration in rats. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2010</b> , 75, 33-41	5.7	107

299	Spray freezing into liquid (SFL) particle engineering technology to enhance dissolution of poorly water soluble drugs: organic solvent versus organic/aqueous co-solvent systems. <i>European Journal of Pharmaceutical Sciences</i> , <b>2003</b> , 20, 295-303	5.1	107
298	Rapid expansion from supercritical to aqueous solution to produce submicron suspensions of water-insoluble drugs. <i>Biotechnology Progress</i> , <b>2000</b> , 16, 402-7	2.8	105
297	Nanoparticle-Stabilized Supercritical CO2 Foams for Potential Mobility Control Applications <b>2010</b> ,		104
296	Synthesis of Germanium Nanocrystals in High Temperature Supercritical Fluid Solvents. <i>Nano Letters</i> , <b>2004</b> , 4, 969-974	11.5	102
295	Enhanced Catalyst Reactivity and Separations Using Water/Carbon Dioxide Emulsions. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 11902-11903	16.4	100
294	Highly Stable and Active Pt/Cu Oxygen Reduction Electrocatalysts Based on Mesoporous Graphitic Carbon Supports. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 4515-4526	9.6	99
293	High yield solution-liquid-solid synthesis of germanium nanowires. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 15718-9	16.4	97
292	Size-dependent properties of silica nanoparticles for Pickering stabilization of emulsions and foams. <i>Journal of Nanoparticle Research</i> , <b>2016</b> , 18, 1	2.3	96
291	High bioavailability from nebulized itraconazole nanoparticle dispersions with biocompatible stabilizers. <i>International Journal of Pharmaceutics</i> , <b>2008</b> , 361, 177-88	6.5	95
290	Improvement of dissolution rates of poorly water soluble APIs using novel spray freezing into liquid technology. <i>Pharmaceutical Research</i> , <b>2002</b> , 19, 1278-84	4.5	93
289	Formation of microporous polymer fibers and oriented fibrils by precipitation with a compressed fluid antisolvent. <i>Journal of Applied Polymer Science</i> , <b>1993</b> , 50, 1929-1942	2.9	93
288	Water Core within Perfluoropolyether-Based Microemulsions Formed in Supercritical Carbon Dioxide. <i>Journal of Physical Chemistry B</i> , <b>1997</b> , 101, 6707-6714	3.4	92
287	Nanocrystal Arrested Precipitation in Supercritical Carbon Dioxide. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 9433-9440	3.4	92
286	Microcellular microspheres and microballoons by precipitation with a vapour-liquid compressed fluid antisolvent. <i>Polymer</i> , <b>1994</b> , 35, 3998-4005	3.9	92
285	Molecular thermodynamics of solubilities in gas antisolvent crystallization. <i>AIChE Journal</i> , <b>1991</b> , 37, 1441-1449	3.6	92
284	Novel ultra-rapid freezing particle engineering process for enhancement of dissolution rates of poorly water-soluble drugs. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2007</b> , 65, 57-67	5.7	91
283	Synthesis of TiO <sub>2</sub> nanoparticles utilizing hydrated reverse micelles in CO <sub>2</sub> . <i>Langmuir</i> , <b>2004</b> , 20, 2466-71	4	91
282	High Yield of Germanium Nanocrystals Synthesized From Germanium Diiodide in Solution. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 6479-6485	9.6	90

281	Buffering the Aqueous Phase pH in Water-in-CO <sub>2</sub> Microemulsions. <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 5703-5711	3.4	90
280	Adjustable solute distribution between polymers and supercritical fluids. <i>AIChE Journal</i> , <b>1989</b> , 35, 1097-1106	3.1	90
279	Concentrated dispersions of equilibrium protein nanoclusters that reversibly dissociate into active monomers. <i>ACS Nano</i> , <b>2012</b> , 6, 1357-69	16.7	89
278	Effect of branching on the interfacial properties of nonionic hydrocarbon surfactants at the air-water and carbon dioxide-water interfaces. <i>Journal of Colloid and Interface Science</i> , <b>2010</b> , 346, 455-63	9.3	89
277	Coaxial nozzle for control of particle morphology in precipitation with a compressed fluid antisolvent. <i>Journal of Applied Polymer Science</i> , <b>1997</b> , 64, 2105-2118	2.9	89
276	Spray freezing into liquid versus spray-freeze drying: influence of atomization on protein aggregation and biological activity. <i>European Journal of Pharmaceutical Sciences</i> , <b>2006</b> , 27, 9-18	5.1	89
275	Poly(vinyl acetate) and Poly(vinyl acetate-co-ethylene) Latexes via Dispersion Polymerizations in Carbon Dioxide. <i>Macromolecules</i> , <b>1998</b> , 31, 6794-6805	5.5	89
274	Colloids in supercritical fluids over the last 20 years and future directions. <i>Journal of Supercritical Fluids</i> , <b>2009</b> , 47, 523-530	4.2	86
273	Role of Steric Stabilization on the Arrested Growth of Silver Nanocrystals in Supercritical Carbon Dioxide. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 12178-12185	3.4	86
272	Effect of stabilizer on the maximum degree and extent of supersaturation and oral absorption of tacrolimus made by ultra-rapid freezing. <i>Pharmaceutical Research</i> , <b>2008</b> , 25, 167-75	4.5	84
271	Viscosity and stability of ultra-high internal phase CO <sub>2</sub> -in-water foams stabilized with surfactants and nanoparticles with or without polyelectrolytes. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 461, 383-395	9.3	83
270	Catalysis in supercritical CO <sub>2</sub> using dendrimer-encapsulated palladium nanoparticles. <i>Chemical Communications</i> , <b>2001</b> , 2290-2291	5.8	83
269	Polar and hydrogen-bonding interactions in supercritical fluids: effects on the tautomeric equilibrium of 4-(phenylazo)-1-naphthol. <i>The Journal of Physical Chemistry</i> , <b>1991</b> , 95, 7863-7867		83
268	Encapsulation of lysozyme in a biodegradable polymer by precipitation with a vapor-over-liquid antisolvent. <i>Journal of Pharmaceutical Sciences</i> , <b>1999</b> , 88, 640-50	3.9	82
267	Organic Synthesis in Water/Carbon Dioxide Microemulsions. <i>Journal of Organic Chemistry</i> , <b>1999</b> , 64, 1201-1206	4.2	82
266	Relationship between polymer chain conformation and phase boundaries in a supercritical fluid. <i>Journal of Chemical Physics</i> , <b>1997</b> , 107, 10782-10792	3.9	81
265	Enhanced aqueous dissolution of a poorly water soluble drug by novel particle engineering technology: spray-freezing into liquid with atmospheric freeze-drying. <i>Pharmaceutical Research</i> , <b>2003</b> , 20, 485-93	4.5	80
264	Synergistic formation and stabilization of oil-in-water emulsions by a weakly interacting mixture of zwitterionic surfactant and silica nanoparticles. <i>Langmuir</i> , <b>2014</b> , 30, 984-94	4	79

263	Iron oxide nanoparticles grafted with sulfonated copolymers are stable in concentrated brine at elevated temperatures and weakly adsorb on silica. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 3329-3339	9.5	79
262	Concentrated CO <sub>2</sub> -in-Water Emulsions with Nonionic Polymeric Surfactants. <i>Journal of Colloid and Interface Science</i> , <b>2001</b> , 239, 241-253	9.3	79
261	High internal phase CO <sub>2</sub> -in-water emulsions stabilized with a branched nonionic hydrocarbon surfactant. <i>Journal of Colloid and Interface Science</i> , <b>2006</b> , 298, 406-18	9.3	78
260	Molecular Differences between Hydrocarbon and Fluorocarbon Surfactants at the CO <sub>2</sub> /Water Interface. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 10185-10192	3.4	78
259	Switchable Nonionic to Cationic Ethoxylated Amine Surfactants for CO <sub>2</sub> Enhanced Oil Recovery in High-Temperature, High-Salinity Carbonate Reservoirs. <i>SPE Journal</i> , <b>2014</b> , 19, 249-259	3.1	77
258	High pseudocapacitance of MnO <sub>2</sub> nanoparticles in graphitic disordered mesoporous carbon at high scan rates. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 3160		77
257	Single dose and multiple dose studies of itraconazole nanoparticles. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2006</b> , 63, 95-102	5.7	75
256	Relaxation Dynamics of CO <sub>2</sub> Diffusion, Sorption, and Polymer Swelling for Plasticized Polyimide Membranes. <i>Macromolecules</i> , <b>2003</b> , 36, 6442-6448	5.5	74
255	Effect of Surfactants on the Interfacial Tension between Supercritical Carbon Dioxide and Polyethylene Glycol. <i>Langmuir</i> , <b>1996</b> , 12, 2637-2644	4	74
254	Modified montmorillonite clay microparticles for stable oil-in-seawater emulsions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 11502-13	9.5	73
253	Charged gold nanoparticles with essentially zero serum protein adsorption in undiluted fetal bovine serum. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 7799-802	16.4	73
252	Hybrid MnO <sub>2</sub> /disordered mesoporous carbon nanocomposites: synthesis and characterization as electrochemical pseudocapacitor electrodes. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 390-398		73
251	Preparation and characterization of microparticles containing peptide produced by a novel process: spray freezing into liquid. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2002</b> , 54, 221-8	5.7	72
250	Rapid dissolving high potency danazol powders produced by spray freezing into liquid process. <i>International Journal of Pharmaceutics</i> , <b>2004</b> , 271, 145-54	6.5	71
249	Steric stabilization of nanoparticles with grafted low molecular weight ligands in highly concentrated brines including divalent ions. <i>Soft Matter</i> , <b>2016</b> , 12, 2025-39	3.6	70
248	Theory of hydrogen bonding in supercritical fluids. <i>AIChE Journal</i> , <b>1992</b> , 38, 1243-1253	3.6	70
247	Low Interfacial Free Volume of Stubby Surfactants Stabilizes Water-in-Carbon Dioxide Microemulsions. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 1962-1966	3.4	69
246	Interfacial Thermodynamics of Surfactants at the CO <sub>2</sub> /Water Interface. <i>Langmuir</i> , <b>2000</b> , 16, 3690-3695	4	68

245	Effect of Grafted Copolymer Composition on Iron Oxide Nanoparticle Stability and Transport in Porous Media at High Salinity. <i>Energy &amp; Fuels</i> , <b>2014</b> , 28, 3655-3665	4.1	67
244	Theoretical and experimental investigation of the motion of multiphase fluids containing paramagnetic nanoparticles in porous media. <i>Journal of Petroleum Science and Engineering</i> , <b>2012</b> , 81, 129-144	4.4	67
243	Semicrystalline microfibrils and hollow fibres by precipitation with a compressed-fluid antisolvent. <i>Polymer</i> , <b>1995</b> , 36, 3173-3182	3.9	67
242	Bifunctional Catalysts for Alkaline Oxygen Reduction Reaction via Promotion of Ligand and Ensemble Effects at Ag/MnO <sub>x</sub> Nanodomains. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 11032-11039	3.8	65
241	Spray freezing into liquid nitrogen for highly stable protein nanostructured microparticles. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2004</b> , 58, 529-37	5.7	64
240	Static Adsorption of an Ethoxylated Nonionic Surfactant on Carbonate Minerals. <i>Langmuir</i> , <b>2016</b> , 32, 10244-10252	4	64
239	Mobility of Ethomeen C12 and Carbon Dioxide (CO <sub>2</sub> ) Foam at High Temperature/High Salinity and in Carbonate Cores. <i>SPE Journal</i> , <b>2016</b> , 21, 1151-1163	3.1	63
238	Synthesis and properties of semifluorinated block copolymers containing poly(ethylene oxide) and poly(fluorooctyl methacrylates) via atom transfer radical polymerisation. <i>Polymer</i> , <b>2002</b> , 43, 7043-7049	3.9	63
237	Water-in-carbon dioxide emulsions stabilized with hydrophobic silica particles. <i>Physical Chemistry Chemical Physics</i> , <b>2007</b> , 9, 6333-43	3.6	62
236	Surfactant-Modified CO <sub>2</sub> /Water Interface: A Molecular View. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 13250-13261	3.4	62
235	Stabilized Polymer Microparticles by Precipitation with a Compressed Fluid Antisolvent. 1. Poly(fluoro acrylates). <i>Macromolecules</i> , <b>1997</b> , 30, 71-77	5.5	61
234	Enhanced Electrocatalytic Activities by Substitutional Tuning of Nickel-Based Ruddlesden-Popper Catalysts for the Oxidation of Urea and Small Alcohols. <i>ACS Catalysis</i> , <b>2019</b> , 9, 2664-2673	13.1	60
233	Turbidimetric measurement and prediction of dissolution rates of poorly soluble drug nanocrystals. <i>Journal of Controlled Release</i> , <b>2007</b> , 117, 351-9	11.7	60
232	Targeted high lung concentrations of itraconazole using nebulized dispersions in a murine model. <i>Pharmaceutical Research</i> , <b>2006</b> , 23, 901-11	4.5	60
231	Water-in-Carbon Dioxide Emulsions with Poly(dimethylsiloxane)-Based Block Copolymer Ionomers. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2000</b> , 39, 2655-2664	3.9	60
230	Carbon dioxide-in-water microemulsions. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 3181-9	16.4	59
229	Water in Carbon Dioxide Macroemulsions and Miniemulsions with a Hydrocarbon Surfactant. <i>Langmuir</i> , <b>2001</b> , 17, 7191-7193	4	59
228	Phase behavior of AOT microemulsions in compressible liquids. <i>The Journal of Physical Chemistry</i> , <b>1991</b> , 95, 4889-4896		59



227	Graphene oxide nanoplatelet dispersions in concentrated NaCl and stabilization of oil/water emulsions. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 403, 1-6	9.3	58
226	Inverse Opal Nanocrystal Superlattice Films. <i>Nano Letters</i> , <b>2004</b> , 4, 1943-1948	11.5	58
225	CO <sub>2</sub> -in-Water Foam at Elevated Temperature and Salinity Stabilized with a Nonionic Surfactant with a High Degree of Ethoxylation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 4252-4263	3.9	57
224	Kinetic assembly of near-IR-active gold nanoclusters using weakly adsorbing polymers to control the size. <i>Langmuir</i> , <b>2010</b> , 26, 8988-99	4	57
223	Effect of Adsorbed Amphiphilic Copolymers on the Interfacial Activity of Superparamagnetic Nanoclusters and the Emulsification of Oil in Water. <i>Macromolecules</i> , <b>2012</b> , 45, 5157-5166	5.5	56
222	Stable Citrate-Coated Iron Oxide Superparamagnetic Nanoclusters at High Salinity. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 12435-12443	3.9	56
221	Amorphous cyclosporin nanodispersions for enhanced pulmonary deposition and dissolution. <i>Journal of Pharmaceutical Sciences</i> , <b>2008</b> , 97, 4915-33	3.9	55
220	Solid-liquid-gas equilibria in multicomponent supercritical fluid systems. <i>Fluid Phase Equilibria</i> , <b>1989</b> , 45, 265-286	2.5	55
219	High temperature ultralow water content carbon dioxide-in-water foam stabilized with viscoelastic zwitterionic surfactants. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 488, 79-91	9.3	54
218	Structure of End-Grafted Polymer Brushes in Liquid and Supercritical Carbon Dioxide: A Neutron Reflectivity Study. <i>Macromolecules</i> , <b>2003</b> , 36, 3365-3373	5.5	54
217	Ultradry Carbon Dioxide-in-Water Foams with Viscoelastic Aqueous Phases. <i>Langmuir</i> , <b>2016</b> , 32, 28-37	4	53
216	Stabilization of iron oxide nanoparticles in high sodium and calcium brine at high temperatures with adsorbed sulfonated copolymers. <i>Langmuir</i> , <b>2013</b> , 29, 3195-206	4	53
215	Stabilized Polymer Microparticles by Precipitation with a Compressed Fluid Antisolvent. 2. Poly(propylene oxide)- and Poly(butylene oxide)-Based Copolymers. <i>Langmuir</i> , <b>1997</b> , 13, 1519-1528	4	53
214	Stubby Surfactants for Stabilization of Water and CO <sub>2</sub> Emulsions: Trisiloxanes. <i>Langmuir</i> , <b>2003</b> , 19, 3114-3120	4.120	53
213	Theory of Polymer Adsorption and Colloid Stabilization in Supercritical Fluids. 2. Copolymer and End-Grafted Stabilizers. <i>Macromolecules</i> , <b>1998</b> , 31, 5518-5528	5.5	53
212	Molecular thermodynamics of solute-polymer-supercritical fluid systems. <i>AIChE Journal</i> , <b>1991</b> , 37, 607-616	3.6	52
211	Carbon dioxide/water foams stabilized with a zwitterionic surfactant at temperatures up to 150 °C in high salinity brine. <i>Journal of Petroleum Science and Engineering</i> , <b>2018</b> , 166, 880-890	4.4	51
210	Formation of stable submicron protein particles by thin film freezing. <i>Pharmaceutical Research</i> , <b>2008</b> , 25, 1334-46	4.5	51

209	Micronized powders of a poorly water soluble drug produced by a spray-freezing into liquid-emulsion process. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2003</b> , 55, 161-72	5.7	51
208	Partition Coefficients and Polymer-Solute Interaction Parameters by Inverse Supercritical Fluid Chromatography. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1996</b> , 35, 1115-1123	3.9	51
207	Superparamagnetic nanoclusters coated with oleic acid bilayers for stabilization of emulsions of water and oil at low concentration. <i>Journal of Colloid and Interface Science</i> , <b>2010</b> , 351, 225-32	9.3	50
206	Equilibrium gold nanoclusters quenched with biodegradable polymers. <i>ACS Nano</i> , <b>2013</b> , 7, 239-51	16.7	49
205	Phase behavior of poly(1,1-dihydroperfluorooctylacrylate) in supercritical carbon dioxide. <i>Fluid Phase Equilibria</i> , <b>1998</b> , 146, 325-337	2.5	49
204	Percolation in Concentrated Water-in-Carbon Dioxide Microemulsions. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 4448-4456	3.4	49
203	UV-Vis Spectroscopic Determination of the Dissociation Constant of Bichromate from 160 to 400 °C. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 3993-4003	3.4	49
202	Stabilization of superparamagnetic iron oxide nanoclusters in concentrated brine with cross-linked polymer shells. <i>Langmuir</i> , <b>2011</b> , 27, 10962-9	4	48
201	Flocculated amorphous nanoparticles for highly supersaturated solutions. <i>Pharmaceutical Research</i> , <b>2008</b> , 25, 2477-87	4.5	48
200	Lattice fluid self-consistent field theory of surfaces with anchored chains. <i>Macromolecules</i> , <b>1993</b> , 26, 1537-1545	5.5	48
199	ADJUSTMENT OF THE SELECTIVITY OF A DIELS-ALDER REACTION NETWORK USING SUPERCRITICAL FLUIDS. <i>Chemical Engineering Communications</i> , <b>1988</b> , 63, 49-59	2.2	47
198	Stabilizer choice for rapid dissolving high potency itraconazole particles formed by evaporative precipitation into aqueous solution. <i>International Journal of Pharmaceutics</i> , <b>2005</b> , 302, 113-24	6.5	46
197	Phase behavior of nonionic surfactant/oil/water systems containing light alkanes. <i>Langmuir</i> , <b>1993</b> , 9, 2942-2948	4	46
196	Utility of biodegradable plasmonic nanoclusters in photoacoustic imaging. <i>Optics Letters</i> , <b>2010</b> , 35, 3751-3	3	45
195	Interfacial Properties of Fluorocarbon and Hydrocarbon Phosphate Surfactants at the Water-CO <sub>2</sub> Interface. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2005</b> , 44, 1370-1380	3.9	45
194	Supersaturation produces high bioavailability of amorphous danazol particles formed by evaporative precipitation into aqueous solution and spray freezing into liquid technologies. <i>Drug Development and Industrial Pharmacy</i> , <b>2006</b> , 32, 559-67	3.6	45
193	Reverse micelles in supercritical fluids. 3. Amino acid solubilization in ethane and propane. <i>The Journal of Physical Chemistry</i> , <b>1990</b> , 94, 6021-6028		45
192	In vivo efficacy of aerosolized nanostructured itraconazole formulations for prevention of invasive pulmonary aspergillosis. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2006</b> , 50, 1552-4	5.9	44

191	Steric stabilization of inorganic suspensions in carbon dioxide. <i>Journal of Supercritical Fluids</i> , <b>2000</b> , 16, 247-260	4.2	43
190	Monitoring ibuprofen release from multiparticulates: in situ fiber-optic technique versus the HPLC method: a technical note. <i>AAPS PharmSciTech</i> , <b>2007</b> , 8, E52	3.9	42
189	Uniform encapsulation of stable protein nanoparticles produced by spray freezing for the reduction of burst release. <i>Journal of Pharmaceutical Sciences</i> , <b>2005</b> , 94, 56-69	3.9	42
188	Excretion and toxicity of gold-iron nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2013</b> , 9, 356-65	6	41
187	Formation of Carbon Dioxide in Water Miniemulsions Using the Phase Inversion Temperature Method. <i>Langmuir</i> , <b>2002</b> , 18, 3039-3046	4	41
186	Monte Carlo simulation of polymer chain collapse in athermal solvents. <i>Journal of Chemical Physics</i> , <b>1996</b> , 104, 9971-9973	3.9	41
185	Flocculated amorphous itraconazole nanoparticles for enhanced in vitro supersaturation and in vivo bioavailability. <i>Drug Development and Industrial Pharmacy</i> , <b>2012</b> , 38, 557-70	3.6	40
184	In vitro characterization and pharmacokinetics in mice following pulmonary delivery of itraconazole as cyclodextrin solubilized solution. <i>European Journal of Pharmaceutical Sciences</i> , <b>2010</b> , 39, 336-47	5.1	40
183	Highly supersaturated solutions of amorphous drugs approaching predictions from configurational thermodynamic properties. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 16675-81	3.4	40
182	Morphology of protein particles produced by spray freezing of concentrated solutions. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2007</b> , 65, 149-62	5.7	40
181	Formation and Growth of Water-in-CO <sub>2</sub> Miniemulsions. <i>Langmuir</i> , <b>2003</b> , 19, 4895-4904	4	40
180	Interfacial Activity of Polymeric Surfactants at the Polystyrene/Carbon Dioxide Interface. <i>Langmuir</i> , <b>1998</b> , 14, 6855-6863	4	40
179	Theory of the pressure effect on the curvature and phase behavior of AOT/propane/brine water-in-oil microemulsions. <i>The Journal of Physical Chemistry</i> , <b>1991</b> , 95, 9549-9556		40
178	Respirable low-density microparticles formed in situ from aerosolized brittle matrices. <i>Pharmaceutical Research</i> , <b>2013</b> , 30, 813-25	4.5	39
177	Interfacial tension and the behavior of microemulsions and macroemulsions of water and carbon dioxide with a branched hydrocarbon nonionic surfactant. <i>Journal of Supercritical Fluids</i> , <b>2010</b> , 55, 712-723	4.2	39
176	Enhanced Infusion of Gold Nanocrystals into Mesoporous Silica with Supercritical Carbon Dioxide. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 6728-6738	9.6	39
175	Simulation of phase equilibria for polymer/supercritical solvent mixtures. <i>Journal of Chemical Physics</i> , <b>1998</b> , 108, 4647-4653	3.9	39
174	Simulation of structure and interaction forces for surfaces coated with grafted chains in a compressible solvent. <i>Journal of Chemical Physics</i> , <b>1998</b> , 109, 6424-6434	3.9	39

173	Phase behavior and interfacial properties of a switchable ethoxylated amine surfactant at high temperature and effects on CO <sub>2</sub> -in-water foams. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 470, 80-93	9.3	38
172	Nebulization of nanoparticulate amorphous or crystalline tacrolimus--single-dose pharmacokinetics study in mice. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2008</b> , 69, 1057-66	5.7	38
171	Transport of Nanoparticle-Stabilized CO <sub>2</sub> -Foam in Porous Media. <i>Transport in Porous Media</i> , <b>2016</b> , 111, 265-285	3.1	37
170	Contrasting the Influence of Cationic Amino Acids on the Viscosity and Stability of a Highly Concentrated Monoclonal Antibody. <i>Pharmaceutical Research</i> , <b>2017</b> , 34, 193-207	4.5	37
169	Swelling of Polystyrene Latex Particles in Water by High-Pressure Carbon Dioxide. <i>Langmuir</i> , <b>1997</b> , 13, 3047-3051	4	37
168	Kinetics of Nonequilibrium Nanocrystal Monolayer Formation: Deposition from Liquid Carbon Dioxide. <i>Nano Letters</i> , <b>2003</b> , 3, 1671-1675	11.5	37
167	Carbon Dioxide-in-Brine Foams at High Temperatures and Extreme Salinities Stabilized with Silica Nanoparticles. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 10680-10690	4.1	36
166	Selective targeting of antibody conjugated multifunctional nanoclusters (nanoroses) to epidermal growth factor receptors in cancer cells. <i>Langmuir</i> , <b>2011</b> , 27, 7681-90	4	36
165	Anion-Based Pseudocapacitance of the Perovskite Library LaSr BO (B = Fe, Mn, Co). <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 5084-5094	9.5	36
164	Metastable polymer blends by precipitation with a compressed fluid antisolvent. <i>Polymer</i> , <b>1997</b> , 38, 2957-2967	3.5	35
163	Encapsulation of protein nanoparticles into uniform-sized microspheres formed in a spinning oil film. <i>AAPS PharmSciTech</i> , <b>2005</b> , 6, E605-17	3.9	35
162	In-Situ Investigation on the Mechanism of Dispersion Polymerization in Supercritical Carbon Dioxide. <i>Macromolecules</i> , <b>2000</b> , 33, 4008-4014	5.5	35
161	Reversible Self-Assembly of Glutathione-Coated Gold Nanoparticle Clusters via pH-Tunable Interactions. <i>Langmuir</i> , <b>2017</b> , 33, 12244-12253	4	34
160	Viscoelastic diamine surfactant for stable carbon dioxide/water foams over a wide range in salinity and temperature. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 522, 151-162	9.3	34
159	Iron Oxide Nanoparticles Grafted with Sulfonated and Zwitterionic Polymers: High Stability and Low Adsorption in Extreme Aqueous Environments. <i>ACS Macro Letters</i> , <b>2014</b> , 3, 867-871	6.6	34
158	Role of interfacial interactions on the anomalous swelling of polymer thin films in supercritical carbon dioxide. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2007</b> , 45, 1313-1324	2.6	34
157	Aerosolized nanostructured itraconazole as prophylaxis against invasive pulmonary aspergillosis. <i>Journal of Infection</i> , <b>2007</b> , 55, 68-74	18.9	34
156	Cleaning of patterned porous low-k dielectrics with water, carbon dioxide and ambidextrous surfactants. <i>Journal of Supercritical Fluids</i> , <b>2006</b> , 39, 277-285	4.2	34

155	Block copolymers as stabilizers in supercritical fluids. <i>Current Opinion in Colloid and Interface Science</i> , <b>2000</b> , 5, 350-355	7.6	34
154	Polymer Coatings by Rapid Expansion of Suspensions in Supercritical Carbon Dioxide. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1999</b> , 38, 3655-3662	3.9	34
153	Templated open flocs of nanorods for enhanced pulmonary delivery with pressurized metered dose inhalers. <i>Pharmaceutical Research</i> , <b>2009</b> , 26, 101-117	4.5	33
152	Highly supersaturated solutions from dissolution of amorphous itraconazole microparticles at pH 6.8. <i>Molecular Pharmaceutics</i> , <b>2009</b> , 6, 375-85	5.6	33
151	Stable high surface area lactate dehydrogenase particles produced by spray freezing into liquid nitrogen. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2007</b> , 65, 163-74	5.7	33
150	Cryogenic liquids, nanoparticles, and microencapsulation. <i>International Journal of Pharmaceutics</i> , <b>2006</b> , 324, 43-50	6.5	33
149	Investigation of processing parameters of spray freezing into liquid to prepare polyethylene glycol polymeric particles for drug delivery. <i>AAPS PharmSciTech</i> , <b>2003</b> , 4, E12	3.9	33
148	CO <sub>2</sub> -Soluble Ionic Surfactants and CO <sub>2</sub> Foams for High-Temperature and High-Salinity Sandstone Reservoirs. <i>Energy &amp; Fuels</i> , <b>2015</b> , 29, 5750-5760	4.1	32
147	Carbon dioxide/water, water/carbon dioxide emulsions and double emulsions stabilized with a nonionic biocompatible surfactant. <i>Journal of Colloid and Interface Science</i> , <b>2010</b> , 348, 469-78	9.3	32
146	Comparison of powder produced by evaporative precipitation into aqueous solution (EPAS) and spray freezing into liquid (SFL) technologies using novel Z-contrast STEM and complimentary techniques. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2005</b> , 60, 81-9	5.7	32
145	Origin and detection of microstructural clustering in fluids with spatial-range competitive interactions. <i>Physical Review E</i> , <b>2015</b> , 91, 042312	2.4	31
144	Carbon Dioxide-in-Water Foams Stabilized with a Mixture of Nanoparticles and Surfactant for CO <sub>2</sub> Storage and Utilization Applications. <i>Energy Procedia</i> , <b>2014</b> , 63, 7929-7938	2.3	31
143	Solubilities and selectivities in supercritical fluid mixtures near critical end points. <i>Fluid Phase Equilibria</i> , <b>1990</b> , 59, 31-55	2.5	31
142	Depth resolved photothermal OCT detection of macrophages in tissue using nanorose. <i>Biomedical Optics Express</i> , <b>2010</b> , 1, 2-16	3.5	30
141	Chemical-mechanical photoresist drying in supercritical carbon dioxide with hydrocarbon surfactants. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2004</b> , 22, 818		30
140	Retrograde Vitrification in CO <sub>2</sub> /Polystyrene Thin Films. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 3457-3461	3.4	30
139	PHOTOLYSIS OF DIBENZYLKETONES IN SUPERCRITICAL ETHANE and CARBON DIOXIDE*. <i>Photochemistry and Photobiology</i> , <b>1991</b> , 54, 571-576	3.6	30
138	High temperature stability and low adsorption of sub-100 nm magnetite nanoparticles grafted with sulfonated copolymers on Berea sandstone in high salinity brine. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2017</b> , 520, 257-267	5.1	29

137	Role of the Carbon Support on the Oxygen Reduction and Evolution Activities in LaNiO <sub>3</sub> Composite Electrodes in Alkaline Solution. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 1549-1558	6.1	29
136	Low Adsorption of Magnetite Nanoparticles with Uniform Polyelectrolyte Coatings in Concentrated Brine on Model Silica and Sandstone. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 1522-1532	3.9	29
135	High concentration tangential flow ultrafiltration of stable monoclonal antibody solutions with low viscosities. <i>Journal of Membrane Science</i> , <b>2016</b> , 508, 113-126	9.6	29
134	High interfacial activity of polymers "grafted through" functionalized iron oxide nanoparticle clusters. <i>Langmuir</i> , <b>2014</b> , 30, 10188-96	4	29
133	Stable Ordered FePt Mesoporous Silica Catalysts with High Loadings. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 5005-5015	9.6	29
132	Synthesis of germanium nanocrystals in high temperature supercritical CO <sub>2</sub> . <i>Nanotechnology</i> , <b>2005</b> , 16, S389-94	3.4	29
131	Solvent Density-Dependent Steric Stabilization of Perfluoropolyether-Coated Nanocrystals in Supercritical Carbon Dioxide. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 15969-15975	3.4	29
130	Structural and Dynamical Origins of Ionic Mobilities in Supercritical Water. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 9302-9307	3.4	29
129	Prediction of interfacial properties of microemulsions: the lattice fluid self-consistent field theory. <i>The Journal of Physical Chemistry</i> , <b>1993</b> , 97, 5661-5667		29
128	Recovery of proteins and amino acids from reverse micelles by dehydration with molecular sieves. <i>Biotechnology and Bioengineering</i> , <b>1994</b> , 44, 830-6	4.9	29
127	Reverse micelles in supercritical fluids. 2. Fluorescence and absorption spectral probes of adjustable aggregation in the two-phase region. <i>The Journal of Physical Chemistry</i> , <b>1990</b> , 94, 7224-7232		29
126	Tunable equilibrium nanocluster dispersions at high protein concentrations. <i>Soft Matter</i> , <b>2013</b> , 9, 1766-1771		28
125	Nanoparticle Stabilized Carbon Dioxide in Water Foams for Enhanced Oil Recovery <b>2012</b> ,		28
124	Rapid dissolution of high-potency danazol particles produced by evaporative precipitation into aqueous solution. <i>Journal of Pharmaceutical Sciences</i> , <b>2004</b> , 93, 1867-78	3.9	28
123	Steric Stabilization of Silica Colloids in Supercritical Carbon Dioxide. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2004</b> , 43, 525-534	3.9	28
122	Trifunctional Ambidextrous Surfactants for Latexes in Supercritical CO <sub>2</sub> and Water. <i>Macromolecules</i> , <b>2000</b> , 33, 1606-1612	5.5	28
121	Ethoxylated Cationic Surfactants for CO <sub>2</sub> EOR in High Temperature, High Salinity Reservoirs <b>2012</b> ,		27
120	Ordering in asymmetric block copolymer films by a compressible fluid. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 16-25	3.4	27

119	Flocculation of polymer stabilized nanocrystal suspensions to produce redispersible powders. <i>Drug Development and Industrial Pharmacy</i> , <b>2009</b> , 35, 283-96	3.6	26
118	Murine airway histology and intracellular uptake of inhaled amorphous itraconazole. <i>International Journal of Pharmaceutics</i> , <b>2007</b> , 338, 219-24	6.5	26
117	Electrostatic stabilization of colloids in carbon dioxide: electrophoresis and dielectrophoresis. <i>Langmuir</i> , <b>2005</b> , 21, 5914-23	4	26
116	Theory of Polymer Adsorption and Colloid Stabilization in Supercritical Fluids. 1. Homopolymer Stabilizers. <i>Macromolecules</i> , <b>1998</b> , 31, 5507-5517	5.5	26
115	High Temperature CO <sub>2</sub> -in-Water Foams Stabilized with Cationic Quaternary Ammonium Surfactants. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2016</b> , 61, 2761-2770	2.8	25
114	State-of-the-art on the supercritical extraction of organics from hazardous wastes. <i>Critical Reviews in Environmental Control</i> , <b>1985</b> , 15, 237-274		25
113	Evaluating the Transport Behavior of CO <sub>2</sub> Foam in the Presence of Crude Oil under High-Temperature and High-Salinity Conditions for Carbonate Reservoirs. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 6038-6047	4.1	24
112	Infusion of Presynthesized Iridium Nanocrystals into Mesoporous Silica for High Catalyst Activity. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 6239-6249	9.6	24
111	Polystyrene thin films in CO <sub>2</sub> . <i>Physical Review E</i> , <b>2004</b> , 69, 051601	2.4	24
110	Critical flocculation density of dilute water-in-CO <sub>2</sub> emulsions stabilized with block copolymers. <i>Journal of Colloid and Interface Science</i> , <b>2004</b> , 272, 444-56	9.3	24
109	Pressure, temperature, and thickness dependence of CO <sub>2</sub> -induced devitrification of polymer films. <i>Physical Review Letters</i> , <b>2003</b> , 91, 175503	7.4	24
108	Molecular Engineering of Hydrogels for Rapid Water Disinfection and Sustainable Solar Vapor Generation. <i>Advanced Materials</i> , <b>2021</b> , 33, e2102994	24	24
107	Oil effect on CO <sub>2</sub> foam stabilized by a switchable amine surfactant at high temperature and high salinity. <i>Fuel</i> , <b>2018</b> , 227, 247-255	7.1	23
106	Low viscosity highly concentrated injectable nonaqueous suspensions of lysozyme microparticles. <i>Langmuir</i> , <b>2010</b> , 26, 1067-74	4	23
105	NMR Studies of Water Transport and Proton Exchange in Water-in-Carbon Dioxide Microemulsions. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 1962-1968	3.4	23
104	Boric Acid Equilibria in Near-Critical and Supercritical Water. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1998</b> , 37, 2045-2051	3.9	23
103	Design of CO <sub>2</sub> -in-Water Foam Stabilized with Switchable Amine Surfactants at High Temperature in High-Salinity Brine and Effect of Oil. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 12259-12267	4.1	23
102	Improving Viscosity and Stability of a Highly Concentrated Monoclonal Antibody Solution with Concentrated Proline. <i>Pharmaceutical Research</i> , <b>2018</b> , 35, 133	4.5	22

101	Modeling fracture propagation and cleanup for dry nanoparticle-stabilized-foam fracturing fluids. <i>Journal of Petroleum Science and Engineering</i> , <b>2016</b> , 146, 210-221	4.4	22
100	Solubility of Block Copolymer Surfactants in Compressed CO <sub>2</sub> Using a Lattice Fluid Hydrogen-Bonding Model. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1997</b> , 36, 2821-2833	3.9	22
99	Carbon dioxide-in-oil emulsions stabilized with silicone-alkyl surfactants for waterless hydraulic fracturing. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 526, 253-267	9.3	20
98	Viscosity Reduction of a Concentrated Monoclonal Antibody with ArginineHCl and ArginineGlutamate. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 11225-11234	3.9	20
97	Electrophoretic mobility of concentrated carbon black dispersions in a low-permittivity solvent by optical coherence tomography. <i>Journal of Colloid and Interface Science</i> , <b>2010</b> , 345, 194-9	9.3	20
96	Stable amorphous danazol nanostructured powders with rapid dissolution rates produced by spray freezing into liquid. <i>Drug Development and Industrial Pharmacy</i> , <b>2004</b> , 30, 695-704	3.6	20
95	Welding Colloidal Crystals with Carbon Dioxide. <i>Macromolecules</i> , <b>2004</b> , 37, 7316-7324	5.5	20
94	Mapping the Stability and Curvature of Emulsions of H <sub>2</sub> O and Supercritical CO <sub>2</sub> with Interfacial Tension Measurements. <i>Journal of Dispersion Science and Technology</i> , <b>2002</b> , 23, 65-80	1.5	20
93	Design and Characterization of the Molecular Environment in Supercritical Fluids. <i>Fluid Phase Equilibria</i> , <b>1989</b> , 52, 337-346	2.5	20
92	Formation of Small Gold Nanoparticle Chains with High NIR Extinction through Bridging with Calcium Ions. <i>Langmuir</i> , <b>2016</b> , 32, 1127-38	4	19
91	Templated open flocs of anisotropic particles for pulmonary delivery with pressurized metered dose inhalers. <i>Journal of Pharmaceutical Sciences</i> , <b>2010</b> , 99, 3150-65	3.9	19
90	Long-ranged electrostatic repulsion and crystallization of emulsion droplets in an ultralow dielectric medium supercritical carbon dioxide. <i>Langmuir</i> , <b>2006</b> , 22, 1006-15	4	19
89	Steric stabilization of core-shell nanoparticles in liquid carbon dioxide at the vapor pressure. <i>Langmuir</i> , <b>2004</b> , 20, 9380-7	4	19
88	Interfacial Studies of the Formation of Microemulsions of Water in Carbon Dioxide with Fluorinated Surfactants. <i>Journal of Dispersion Science and Technology</i> , <b>2002</b> , 23, 81-92	1.5	19
87	Protein-Protein Interactions of Highly Concentrated Monoclonal Antibody Solutions via Static Light Scattering and Influence on the Viscosity. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 739-755	3.4	19
86	Synthesis of polystyrene/SiO <sub>2</sub> composite microparticles by dispersion polymerization in supercritical fluid. <i>Colloid and Polymer Science</i> , <b>2008</b> , 286, 1343-1348	2.4	18
85	Dispersion Polymerization of Methyl Methacrylate in Supercritical Carbon Dioxide in the Presence of Random Copolymers. <i>Macromolecular Rapid Communications</i> , <b>2006</b> , 27, 121-125	4.8	18
84	Structural Inversion of Micellar Block Copolymer Thin Films. <i>Macromolecules</i> , <b>2006</b> , 39, 7044-7054	5.5	18



83	Physical stability of micronized powders produced by spray-freezing into liquid (SFL) to enhance the dissolution of an insoluble drug. <i>Pharmaceutical Development and Technology</i> , <b>2003</b> , 8, 187-97	3.4	18
82	Novel Semiconducting Polymer Particles by Supercritical Fluid Process. <i>Macromolecular Rapid Communications</i> , <b>2005</b> , 26, 1779-1783	4.8	18
81	Decoupling the roles of carbon and metal oxides on the electrocatalytic reduction of oxygen on LaSrCoO perovskite composite electrodes. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 3327-3338	3.6	17
80	Switchable Amine Surfactants for Stable CO <sub>2</sub> /Brine Foams in High Temperature, High Salinity Reservoirs <b>2014</b> ,		17
79	Charge Shielding Prevents Aggregation of Supercharged GFP Variants at High Protein Concentration. <i>Molecular Pharmaceutics</i> , <b>2017</b> , 14, 3269-3280	5.6	17
78	Foam Generation Hysteresis in Porous Media: Experiments and New Insights. <i>Transport in Porous Media</i> , <b>2017</b> , 116, 687-703	3.1	17
77	Comparison of pulsed photothermal radiometry, optical coherence tomography and ultrasound for melanoma thickness measurement in PDMS tissue phantoms. <i>Journal of Biophotonics</i> , <b>2011</b> , 4, 335-44	3.1	17
76	Pulsed magneto-motive ultrasound imaging to detect intracellular trafficking of magnetic nanoparticles. <i>Nanotechnology</i> , <b>2011</b> , 22, 415105	3.4	17
75	Thermal stability of biodegradable plasmonic nanoclusters in photoacoustic imaging. <i>Optics Express</i> , <b>2012</b> , 20, 29479-87	3.3	17
74	Twin-Tailed Surfactants for Creating CO <sub>2</sub> -in-Water Macroemulsions for Sweep Enhancement in CO <sub>2</sub> -EOR <b>2010</b> ,		17
73	Improved Mobility of Magnetite Nanoparticles at High Salinity with Polymers and Surfactants. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 1915-1926	4.1	16
72	Quenched Assembly of NIR-Active Gold Nanoclusters Capped with Strongly Bound Ligands by Tuning Particle Charge via pH and Salinity. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 14291-14298	3.8	16
71	Switchable Diamine Surfactants for CO <sub>2</sub> Mobility Control in Enhanced Oil Recovery and Sequestration. <i>Energy Procedia</i> , <b>2014</b> , 63, 7709-7716	2.3	16
70	Density Dependence of Homopolymer Adsorption and Colloidal Interaction Forces in a Supercritical Solvent: Monte Carlo Simulation. <i>Langmuir</i> , <b>1999</b> , 15, 8037-8044	4	16
69	Behavior of Spherical Poly(2-acrylamido-2-methylpropanesulfonate) Polyelectrolyte Brushes on Silica Nanoparticles up to Extreme Salinity with Weak Divalent Cation Binding at Ambient and High Temperature. <i>Macromolecules</i> , <b>2017</b> , 50, 7699-7711	5.5	15
68	X-ray Scattering and Coarse-Grained Simulations for Clustering and Interactions of Monoclonal Antibodies at High Concentrations. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 5274-5290	3.4	15
67	Phospholipid-stabilized nanoparticles of cyclosporine a by rapid expansion from supercritical to aqueous solution. <i>AAPS PharmSciTech</i> , <b>2004</b> , 5, 70-85	3.9	15
66	Control of magnetite primary particle size in aqueous dispersions of nanoclusters for high magnetic susceptibilities. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 462, 359-67	9.3	14

65	Combined two-photon luminescence microscopy and OCT for macrophage detection in the hypercholesterolemic rabbit aorta using plasmonic gold nanorose. <i>Lasers in Surgery and Medicine</i> , <b>2012</b> , 44, 49-59	3.6	14
64	CO <sub>2</sub> promotes penetration and removal of aqueous hydrocarbon surfactant cleaning solutions and silylation in low-k dielectrics with 3 nm pores. <i>Journal of Supercritical Fluids</i> , <b>2007</b> , 42, 398-409	4.2	14
63	Ketoprofen nanoparticle gels formed by evaporative precipitation into aqueous solution. <i>AIChE Journal</i> , <b>2006</b> , 52, 2428-2435	3.6	13
62	Electrostatically stabilized metal oxide particle dispersions in carbon dioxide. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 20155-65	3.4	13
61	Tuning Redox Transitions via the Inductive Effect in LaNi <sub>1-x</sub> Fe <sub>x</sub> O <sub>3</sub> Perovskites for High-Power Asymmetric and Symmetric Pseudocapacitors. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 6558-6568	6.1	12
60	Stable colloidal dispersions of a lipase-perfluoropolyether complex in liquid and supercritical carbon dioxide. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 4760-9	3.4	12
59	Ion Hydration in Supercritical Water. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1994</b> , 33, 2819-2829	3.9	12
58	Pressure Tuning of Reverse Micelles for Adjustable Solvation of Hydrophiles in Supercritical Fluids. <i>ACS Symposium Series</i> , <b>1989</b> , 140-164	0.4	12
57	Nanoparticle-Stabilized Emulsions for Improved Mobility Control for Adverse-mobility Waterflooding <b>2016</b> ,		11
56	Formation of TiO <sub>2</sub> nanoparticles in water-in-CO <sub>2</sub> microemulsions. <i>Chemical Communications</i> , <b>2002</b> , 1528-98	5.8	11
55	Highly Elastic Interconnected Porous Hydrogels through Self-Assembled Templating for Solar Water Purification. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 61, e202114074	16.4	11
54	Coarse-Grained Molecular Dynamics Simulations for Understanding the Impact of Short-Range Anisotropic Attractions on Structure and Viscosity of Concentrated Monoclonal Antibody Solutions. <i>Molecular Pharmaceutics</i> , <b>2020</b> , 17, 1748-1756	5.6	10
53	CO <sub>2</sub> -Enhanced Transport of Small Molecules in Thin PMMA Films. <i>Macromolecules</i> , <b>2005</b> , 38, 1335-1340	5.5	10
52	Phospholipid-stabilized nanoparticles of cyclosporine A by rapid expansion from supercritical to aqueous solution. <i>AAPS PharmSciTech</i> , <b>2004</b> , 5, E11	3.9	10
51	Predictability and effect of phase behavior of CO <sub>2</sub> /propylene carbonate in supercritical fluid chromatography. <i>Journal of Separation Science</i> , <b>1991</b> , 3, 355-369		10
50	Two-Step Adsorption of a Switchable Tertiary Amine Surfactant Measured Using a Quartz Crystal Microbalance with Dissipation. <i>Langmuir</i> , <b>2019</b> , 35, 695-701	4	10
49	Crude Oil Recovery with Duomeen CTM-Stabilized Supercritical CO <sub>2</sub> Foams for HPHT and Ultrahigh-Salinity Carbonate Reservoirs. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 15727-15735	4.1	9
48	Multi-Scale Evaluation of Nanoparticle-Stabilized CO <sub>2</sub> -in-Water Foams: From the Benchtop to the Field <b>2015</b> ,		9

47	Antibody nanoparticle dispersions formed with mixtures of crowding molecules retain activity and in vivo bioavailability. <i>Journal of Pharmaceutical Sciences</i> , <b>2012</b> , 101, 3763-78	3.9	9
46	Spectroscopy: the fourth vertex on the molecular thermodynamics tetrahedron. <i>Fluid Phase Equilibria</i> , <b>1996</b> , 116, 385-394	2.5	9
45	Local composition models for fluid mixtures over a wide density range. <i>Fluid Phase Equilibria</i> , <b>1987</b> , 38, 39-62	2.5	9
44	Comparison of perovskite and perovskite derivatives for use in anion-based pseudocapacitor applications. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 21222-21231	13	8
43	Tertiary Amine Esters for Carbon Dioxide Based Emulsions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 2473-2480	3.9	8
42	CO <sub>2</sub> -Enhanced Transport of Small Molecules in Thin Films: A Fluorescence Study. <i>Macromolecules</i> , <b>2004</b> , 37, 1897-1902	5.5	8
41	CO <sub>2</sub> /Water Foams Stabilized with Cationic or Zwitterionic Surfactants at Temperatures up to 120 °C in High Salinity Brine <b>2018</b> ,		8
40	Relating Collective Diffusion, Protein-Protein Interactions, and Viscosity of Highly Concentrated Monoclonal Antibodies through Dynamic Light Scattering. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 22456-22471	3.9	7
39	Self-diffusion of a highly concentrated monoclonal antibody by fluorescence correlation spectroscopy: insight into protein-protein interactions and self-association. <i>Soft Matter</i> , <b>2019</b> , 15, 6660-6676	3.6	7
38	Theoretical and Experimental Investigation of the Motion of Multiphase Fluids Containing Paramagnetic Nanoparticles in Porous Media <b>2010</b> ,		7
37	Acid-base behavior in supercritical water: Phapthoic acid-ammonia equilibrium. <i>Journal of Solution Chemistry</i> , <b>1997</b> , 26, 13-30	1.8	7
36	Supercritical CO <sub>2</sub> -based solvents in next generation microelectronics processing. <i>Science Bulletin</i> , <b>2007</b> , 52, 27-33		7
35	Synthesis of Ultrafine TiO <sub>2</sub> Particles from Hydrolysis of Ti(OiPr) <sub>4</sub> with PEO-b-PFOMA Reverse Micelles in CO <sub>2</sub> . <i>Studies in Surface Science and Catalysis</i> , <b>2004</b> , 153, 569-572	1.8	7
34	Simulation and Spectroscopy of Solvation in Water from Ambient to Supercritical Conditions. <i>ACS Symposium Series</i> , <b>1995</b> , 77-92	0.4	7
33	Protein-Protein Interactions, Clustering, and Rheology for Bovine IgG up to High Concentrations Characterized by Small Angle X-Ray Scattering and Molecular Dynamics Simulations. <i>Journal of Pharmaceutical Sciences</i> , <b>2020</b> , 109, 696-708	3.9	7
32	Effect of surface chemistry of silica nanoparticles on contact angle of oil on calcite surfaces in concentrated brine with divalent ions. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 581, 656-668	9.3	7
31	Gold nanoparticles with high densities of small protuberances on nanocluster cores with strong NIR extinction. <i>RSC Advances</i> , <b>2015</b> , 5, 104674-104687	3.7	6
30	Synthesis of Iron Oxide Nanoclusters with Enhanced Magnetization and Their Applications in Pulsed Magneto-Motive Ultrasound Imaging. <i>Nano</i> , <b>2015</b> , 10, 1550073	1.1	6

29	Dual-wavelength multifrequency photothermal wave imaging combined with optical coherence tomography for macrophage and lipid detection in atherosclerotic plaques using gold nanoparticles. <i>Journal of Biomedical Optics</i> , <b>2012</b> , 17, 036009	3.5	6
28	Interactions of Core-Shell Silica Nanoparticles in Liquid Carbon Dioxide Measured by Dynamic Light Scattering. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2006</b> , 45, 5603-5613	3.9	6
27	Improvement of Dissolution Rate of Poorly Water Soluble Drugs Using a New Particle Engineering Process: Spray Freezing into Liquid. <i>ACS Symposium Series</i> , <b>2006</b> , 305-319	0.4	6
26	Latexes Formed by Rapid Expansion of Polymer/CO <sub>2</sub> Suspensions into Water. 1. Hydrophilic Surfactant in Supercritical CO <sub>2</sub> . <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2001</b> , 40, 536-543	3.9	6
25	Experimental Studies and Modeling of Foam Hysteresis in Porous Media <b>2016</b> ,		6
24	Control of Primary Particle Spacing in Gold Nanoparticle Clusters for Both High NIR Extinction and Full Reversibility. <i>Langmuir</i> , <b>2017</b> , 33, 3413-3426	4	5
23	Simulation of magnetite nanoparticle mobility in a heterogeneous flow cell. <i>Environmental Science: Nano</i> , <b>2017</b> , 4, 1512-1524	7.1	5
22	Enhancing Stability and Reducing Viscosity of a Monoclonal Antibody With Cosolutes by Weakening Protein-Protein Interactions. <i>Journal of Pharmaceutical Sciences</i> , <b>2019</b> , 108, 2517-2526	3.9	5
21	Aqueous Latexes Formed from Polymer/CO <sub>2</sub> Suspensions. 2. Hydrophilic Surfactants in Water. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2002</b> , 41, 4750-4757	3.9	5
20	Tuning Surface Chemistry and Ionic Strength to Control Nanoparticle Adsorption and Elastic Dilational Modulus at Air-Brine Interface. <i>Langmuir</i> , <b>2021</b> , 37, 5795-5809	4	5
19	Aqueous Superparamagnetic Magnetite Dispersions with Ultrahigh Initial Magnetic Susceptibilities. <i>Langmuir</i> , <b>2018</b> , 34, 622-629	4	4
18	Combined photothermal therapy and magneto-motive ultrasound imaging using multifunctional nanoparticles <b>2010</b> ,		4
17	Noncovalent grafting of polyelectrolytes onto hydrophobic polymer colloids with a swelling agent. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 555, 457-464	5.1	4
16	Tuning Nanoparticle Surface Chemistry and Interfacial Properties for Highly Stable Nitrogen-In-Brine Foams. <i>Langmuir</i> , <b>2021</b> , 37, 5408-5423	4	4
15	Precipitation Technologies for Nanoparticle Production. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , <b>2012</b> , 501-568	0.5	3
14	Microemulsions, Emulsions and Latexes <b>2007</b> , 127-146		3
13	Polyelectrolyte coated individual silica nanoparticles dispersed in concentrated divalent brine at elevated temperatures for subsurface energy applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 586, 124276	5.1	3
12	Biodegradable Plasmonic Nanoparticles: Overcoming Clinical Translation Barriers <b>2015</b> ,		2

11	Nanocrystal Synthesis and Stabilization in Supercritical Solvents. <i>ACS Symposium Series</i> , <b>2003</b> , 339-352	0.4	2
10	Wet Chemical Synthesis of Germanium Nanocrystals. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 879, 1		2
9	Viscosity and Stability of Dry CO <sub>2</sub> Foams for Improved Oil Recovery <b>2016</b> ,		1
8	Nanorose and lipid detection in atherosclerotic plaque using dual-wavelength photothermal wave imaging <b>2010</b> ,		1
7	Artificial Atoms of Silicon. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 582, 62		1
6	Partial derivative quantities from phase equilibria relationships for mixtures. <i>AIChE Journal</i> , <b>1993</b> , 39, 1363-1369	3.6	1
5	Highly Elastic Interconnected Porous Hydrogels through Self-Assembled Templating for Solar Water Purification. <i>Angewandte Chemie</i> , <b>2022</b> , 134, e202114074	3.6	1
4	Elastic gas/water interface for highly stable foams with modified anionic silica nanoparticles and a like-charged surfactant. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 608, 1401-1413	9.3	1
3	Toxicology of a PFPE Surfactant. <i>Science</i> , <b>1996</b> , 272, 1726-1726	33.3	1
2	Development and experimental evaluation of a mathematical model to predict polymer-enhanced nanoparticle mobility in heterogeneous formations. <i>Environmental Science: Nano</i> , <b>2021</b> , 8, 470-484	7.1	1
1	Identification and Evaluation of Viscoelastic Surfactants Including Smart Viscoelastic Systems for Generation and Stabilization of Ultra-Dry N <sub>2</sub> and CO <sub>2</sub> Foam for Fracturing Fluids and Proppant Transport <b>2018</b> ,		1