

Robert M Enick

List of Publications by Year in descending order

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63
papers

2,181
citations

186265

28
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233421

45
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66
all docs

66
docs citations

66
times ranked

1555
citing authors

#	ARTICLE	IF	CITATIONS
1	CO ₂ SOLUBILITY IN WATER AND BRINE UNDER RESERVOIR CONDITIONS. Chemical Engineering Communications, 1990, 90, 23-33.	2.6	210
2	A Literature Review of CO ₂ , Natural Gas, and Water-Based Fluids for Enhanced Oil Recovery in Unconventional Reservoirs. Energy & Fuels, 2020, 34, 5331-5380.	5.1	168
3	Enhancement of the Viscosity of Carbon Dioxide Using Styrene/Fluoroacrylate Copolymers. Macromolecules, 2000, 33, 5437-5442.	4.8	113
4	Peracetylated Sugar Derivatives Show High Solubility in Liquid and Supercritical Carbon Dioxide. Organic Letters, 2002, 4, 2333-2335.	4.6	95
5	Phase Behavior of Oxygen-Containing Polymers in CO ₂ . Macromolecules, 2007, 40, 1332-1341.	4.8	95
6	Oxygenated Hydrocarbon Ionic Surfactants Exhibit CO ₂ Solubility. Journal of the American Chemical Society, 2005, 127, 11754-11762.	13.7	85
7	Effect of Concentration and Degree of Saturation on RESS of a CO ₂ -Soluble Fluoropolymer. Industrial & Engineering Chemistry Research, 2002, 41, 4976-4983.	3.7	70
8	Design and Evaluation of Nonfluorous CO ₂ -Soluble Oligomers and Polymers. Journal of Physical Chemistry B, 2009, 113, 14971-14980.	2.6	69
9	The CO ₂ permeability and mixed gas CO ₂ /H ₂ selectivity of membranes composed of CO ₂ -philic polymers. Journal of Membrane Science, 2011, 372, 29-39.	8.2	68
10	The high CO ₂ -solubility of per-acetylated $\hat{1}\pm$ -, $\hat{1}^2$ -, and $\hat{1}^3$ -cyclodextrin. Fluid Phase Equilibria, 2003, 211, 211-217.	2.5	66
11	Design principles for supercritical CO ₂ viscosifiers. Soft Matter, 2012, 8, 7044.	2.7	63
12	Aminosilicone Solvents for CO ₂ Capture. ChemSusChem, 2010, 3, 919-930.	6.8	57
13	Synthesis and Solubility of Linear Poly(tetrafluoroethylene-co-vinyl acetate) in Dense CO ₂ : \hat{A} Experimental and Molecular Modeling Results. Macromolecules, 2004, 37, 7799-7807.	4.8	55
14	Solubility of CO ₂ in CO ₂ -philic oligomers; COSMOtherm predictions and experimental results. Fluid Phase Equilibria, 2009, 287, 26-32.	2.5	55
15	Semi-Fluorinated Trialkyltin Fluorides and Fluorinated Telechelic Ionomers as Viscosity-Enhancing Agents for Carbon Dioxide. Industrial & Engineering Chemistry Research, 2001, 40, 908-913.	3.7	50
16	Critical Assessment of CO ₂ Solubility in Volatile Solvents at 298.15 K. Journal of Chemical & Engineering Data, 2011, 56, 1565-1572.	1.9	49
17	Thickening Carbon Dioxide With the Fluoroacrylate-Styrene Copolymer. SPE Journal, 2003, 8, 85-91.	3.1	46
18	CO ₂ Capture Using Phase-Changing Sorbents. Energy & Fuels, 2012, 26, 2528-2538.	5.1	45

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19	Influence of tert-amine groups on the solubility of polymers in CO ₂ . <i>Polymer</i> , 2009, 50, 2436-2444.	3.8	42
20	CO ₂ -philic Oligomers as Novel Solvents for CO ₂ Absorption. <i>Energy & Fuels</i> , 2010, 24, 6214-6219.	5.1	42
21	Anthraquinone Siloxanes as Thickening Agents for Supercritical CO ₂ . <i>Energy & Fuels</i> , 2016, 30, 5990-5998.	5.1	42
22	Phase behavior of CO ₂ -perfluoropolyether oil mixtures and CO ₂ -perfluoropolyether chelating agent mixtures. <i>Journal of Supercritical Fluids</i> , 1998, 13, 121-126.	3.2	38
23	Global phase behavior for CO ₂ -philic solids: the CO ₂ -D-maltose octaacetate system. <i>Journal of Supercritical Fluids</i> , 2005, 34, 11-16.	3.2	38
24	Carbon dioxide-in-oil emulsions stabilized with silicone-alkyl surfactants for waterless hydraulic fracturing. <i>Journal of Colloid and Interface Science</i> , 2018, 526, 253-267.	9.4	35
25	Remediation of Metal-Bearing Aqueous Waste Streams via Direct Carbonation. <i>Energy & Fuels</i> , 2001, 15, 256-262.	5.1	32
26	Fiber Formation by Highly CO ₂ -Soluble Bisureas Containing Peracetylated Carbohydrate Groups. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3284-3287.	13.8	31
27	Viscosity of n-hexadecane, n-octadecane and n-eicosane at pressures up to 243MPa and temperatures up to 534K. <i>Journal of Chemical Thermodynamics</i> , 2014, 72, 108-116.	2.0	30
28	Small Molecule Cyclic Amide and Urea Based Thickeners for Organic and sc-CO ₂ /Organic Solutions. <i>Energy & Fuels</i> , 2016, 30, 5601-5610.	5.1	29
29	Assessment of solubility and viscosity of ultra-high molecular weight polymeric thickeners in ethane, propane and butane for miscible EOR. <i>Journal of Petroleum Science and Engineering</i> , 2016, 145, 266-278.	4.2	25
30	The solubility of low molecular weight Poly(Dimethyl siloxane) in dense CO ₂ and its use as a CO ₂ -philic segment. <i>Journal of Supercritical Fluids</i> , 2017, 119, 17-25.	3.2	25
31	Direct Viscosity Enhancement of Carbon Dioxide. <i>ACS Symposium Series</i> , 1989, , 122-139.	0.5	22
32	Modeling the High-Pressure Ammonia-Water System with WATAM and the Peng-Robinson Equation of State for Kalina Cycle Studies. <i>Industrial & Engineering Chemistry Research</i> , 1998, 37, 1644-1650.	3.7	21
33	Exploratory Characterization of a Perfluoropolyether Oil as a Possible Viscosity Standard at Deepwater Production Conditions of 533ÅK and 241ÅMPa. <i>International Journal of Thermophysics</i> , 2013, 34, 1845-1864.	2.1	21
34	In Pursuit of a High-Temperature, High-Pressure, High-Viscosity Standard: The Case of Tris(2-ethylhexyl) Trimellitate. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 2884-2895.	1.9	21
35	Anisotropic reversed micelles with fluorocarbon-hydrocarbon hybrid surfactants in supercritical CO ₂ . <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 168, 201-210.	5.0	17
36	Small associative molecule thickeners for ethane, propane and butane. <i>Journal of Supercritical Fluids</i> , 2016, 114, 9-17.	3.2	15

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37	An experimental feasibility study on the use of CO ₂ -soluble polyfluoroacrylates for CO ₂ mobility and conformance control applications. <i>Journal of Petroleum Science and Engineering</i> , 2020, 184, 106556.	4.2	15
38	High-temperature, high-pressure viscosity of n-octane and isooctane. <i>Fuel</i> , 2016, 164, 199-205.	6.4	14
39	Cellulose triacetate oligomers exhibit high solubility in dense CO ₂ . <i>Green Chemistry</i> , 2008, 10, 756.	9.0	13
40	Tri-tert-butylphenol: A highly CO ₂ -soluble sand binder. <i>Journal of Supercritical Fluids</i> , 2008, 44, 1-7.	3.2	11
41	Polymeric and Small Molecule Thickeners for CO ₂ , Ethane, Propane and Butane for Improved Mobility Control. , 2016, , .		10
42	Phase Behavior of Poly(propylene glycol) Monobutyl Ethers in Dense CO ₂ . <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 1342-1345.	1.9	9
43	Experimental density measurements of bis(2-ethylhexyl) phthalate at elevated temperatures and pressures. <i>Journal of Chemical Thermodynamics</i> , 2013, 63, 102-107.	2.0	9
44	Liquid Densities of Xylene Isomers and 2-Methylnaphthalene at Temperatures to 523 K and Pressures to 265 MPa: Experimental Determination and Equation of State Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 11732-11740.	3.7	8
45	Viscosity Measurements of Two Potential Deepwater Viscosity Standard Reference Fluids at High Temperature and High Pressure. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 2712-2719.	1.9	8
46	High-temperature, high-pressure viscosities and densities of toluene. <i>Journal of Chemical Thermodynamics</i> , 2017, 115, 34-46.	2.0	8
47	Solid CO ₂ -philes as potential phase-change physical solvents for CO ₂ . <i>Journal of Supercritical Fluids</i> , 2012, 61, 212-220.	3.2	7
48	A Combined Experimental and Computational Study on Selected Physical Properties of Aminosilicones. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 1334-1341.	3.7	7
49	Oligomer Hydrate Crystallization Improves Carbon Nanotube Memory. <i>Chemistry of Materials</i> , 2018, 30, 3813-3818.	6.7	6
50	International Standard for viscosity at temperatures up to 473 K and pressures below 200 MPa (IUPAC) Tj ETQq0 0,0 rgBT /Oylock 10	1.9	6
51	A CORRELATION FOR THE ACCELERATION LENGTH IN VERTICAL GAS-SOLID TRANSPORT. <i>Chemical Engineering Communications</i> , 1986, 49, 127-131.	2.6	4
52	The Effect of Continuous H ₂ S Exposure on the Performance of Thick Palladium-Copper Alloy Membranes. <i>ACS Symposium Series</i> , 2007, , 135-152.	0.5	3
53	Measurement of CO ₂ Diffusivity in Phase-Changing Aminosilicone CO ₂ Capture Solvent. <i>Energy & Fuels</i> , 2018, 32, 6901-6909.	5.1	3
54	Fluoroacrylate Polymers as CO ₂ -soluble Conformance Control Agents. , 2018, , .		3

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55	Thickening compressed liquid and supercritical propane with bisurea DMHUT N,N'-(4-methyl-1,3-phenylene)bis[N-(1,5-dimethylhexyl)urea] for enhanced oil recovery or waterless hydraulic fracturing. <i>Journal of Supercritical Fluids</i> , 2019, 145, 85-92.	3.2	3
56	Carbon Dioxide-in-Oil (C/O) Emulsions Stabilized by Silica Nanoparticles Functionalized with Oleophilic and CO ₂ -philic Ligands. <i>Industrial & Engineering Chemistry Research</i> , 0, , .	3.7	2
57	A mathematical model of an isothermal, flue gas desulfurization, copper oxide moving-bed reactor. <i>Environmental Progress</i> , 1999, 18, 60-68.	0.7	1
58	Design of High Pressure CO ₂ -in-Mineral Oil Emulsions, CH ₄ -in-Mineral Oil Foams and N ₂ -in-Mineral Oil Foams Stabilized by Novel Oil-soluble Surfactants for Waterless Hydraulic Fracturing and Proppant Transport. , 2019, , .		1
59	Improving CO ₂ -EOR In Shale Reservoirs using Dilute Concentrations of Wettability-Altering CO ₂ -Soluble Nonionic Surfactants , 2020, , .		1
60	Laboratory-Scale CO ₂ Huff & Puff EOR using Single Phase Solutions of CO ₂ and CO ₂ Soluble, Nonionic, Wettability Altering Additives. , 2020, , .		1
61	Viscosity Measurements of Rocket Propellant RP-2 Over Wide Ranges of Temperature and Pressure. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 3221-3229.	1.9	1
62	Carbon-Dioxide-Based Microsortation of Postconsumer Polyolefins and its Effect on Polyolefin Properties. <i>Polymer-Plastics Technology and Engineering</i> , 1999, 38, 433-444.	1.9	0
63	Sugar Acetate-based Low Molecular Weight Organogelators. <i>Chemistry Letters</i> , 2020, 49, 1026-1029.	1.3	0