Robert M Enick

List of Publications by Year
in descending order

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63	2,181	186265	233421
papers	citations	28 h-index	45 g-index

66	66	66	1555
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An experimental feasibility study on the use of CO2-soluble polyfluoroacrylates for CO2 mobility and conformance control applications. Journal of Petroleum Science and Engineering, 2020, 184, 106556.	4.2	15
2	Improving CO₂-EOR In Shale Reservoirs using Dilute Concentrations of Wettability-Altering CO₂-Soluble Nonionic Surfactants. , 2020, , .		1
3	Laboratory-Scale CO2 Huff â€˜n Puff EOR using Single Phase Solutions of CO2 and CO2 Soluble, Nonionic, Wettability Altering Additives. , 2020, , .		1
4	Viscosity Measurements of Rocket Propellant RP-2 Over Wide Ranges of Temperature and Pressure. Journal of Chemical & Engineering Data, 2020, 65, 3221-3229.	1.9	1
5	Sugar Acetate-based Low Molecular Weight Organogelators. Chemistry Letters, 2020, 49, 1026-1029.	1.3	0
6	A Literature Review of CO₂, Natural Gas, and Water-Based Fluids for Enhanced Oil Recovery in Unconventional Reservoirs. Energy & Fuels, 2020, 34, 5331-5380.	5.1	168
7	Design of High Pressure CO2-in-Mineral Oil Emulsions, CH4-in-Mineral Oil Foams and N2-in-Mineral Oil Foams Stabilized by Novel Oil-soluble Surfactants for Waterless Hydraulic Fracturing and Proppant Transport. , 2019, , .		1
8	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. Journal of Supercritical Fluids, 2019, 145, 85-92.	3.2	3
9	International Standard for viscosity at temperatures up to 473 K and pressures below 200 MPa (IUPAC) Tj ETQq1 1 0.784314 rgBT /O	1.9	6
10	Carbon dioxide-in-oil emulsions stabilized with silicone-alkyl surfactants for waterless hydraulic fracturing. Journal of Colloid and Interface Science, 2018, 526, 253-267.	9.4	35
11	Anisotropic reversed micelles with fluorocarbon-hydrocarbon hybrid surfactants in supercritical CO2. Colloids and Surfaces B: Biointerfaces, 2018, 168, 201-210.	5.0	17
12	Oligomer Hydrate Crystallization Improves Carbon Nanotube Memory. Chemistry of Materials, 2018, 30, 3813-3818.	6.7	6
13	Measurement of CO2Diffusivity in Phase-Changing Aminosilicone CO2Capture Solvent. Energy & Fuels, 2018, 32, 6901-6909.	5.1	3
14	Fluoroacrylate Polymers as CO2-soluble Conformance Control Agents. , 2018, , .		3
15	In Pursuit of a High-Temperature, High-Pressure, High-Viscosity Standard: The Case of Tris(2-ethylhexyl) Trimellitate. Journal of Chemical & Engineering Data, 2017, 62, 2884-2895.	1.9	21
16	High-temperature, high-pressure viscosities and densities of toluene. Journal of Chemical Thermodynamics, 2017, 115, 34-46.	2.0	8
17	The solubility of low molecular weight Poly(Dimethyl siloxane) in dense CO2 and its use as a CO2-philic segment. Journal of Supercritical Fluids, 2017, 119, 17-25.	3.2	25
18	Small associative molecule thickeners for ethane, propane and butane. Journal of Supercritical Fluids, 2016, 114, 9-17.	3.2	15

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19	High-temperature, high-pressure viscosity of n-octane and isooctane. Fuel, 2016, 164, 199-205.	6.4	14
20	Small Molecule Cyclic Amide and Urea Based Thickeners for Organic and sc-CO₂/Organic Solutions. Energy & Fuels, 2016, 30, 5601-5610.	5.1	29
21	Viscosity Measurements of Two Potential Deepwater Viscosity Standard Reference Fluids at High Temperature and High Pressure. Journal of Chemical & Engineering Data, 2016, 61, 2712-2719.	1.9	8
22	Anthraquinone Siloxanes as Thickening Agents for Supercritical CO₂. Energy & Fuels, 2016, 30, 5990-5998.	5.1	42
23	Assessment of solubility and viscosity of ultra-high molecular weight polymeric thickeners in ethane, propane and butane for miscible EOR. Journal of Petroleum Science and Engineering, 2016, 145, 266-278.	4.2	25
24	Polymeric and Small Molecule Thickeners for CO2, Ethane, Propane and Butane for Improved Mobility Control. , 2016, , .		10
25	Viscosity of n-hexadecane, n-octadecane and n-eicosane at pressures up to 243MPa and temperatures up to 534K. Journal of Chemical Thermodynamics, 2014, 72, 108-116.	2.0	30
26	A Combined Experimental and Computational Study on Selected Physical Properties of Aminosilicones. Industrial & Engineering Chemistry Research, 2014, 53, 1334-1341.	3.7	7
27	Exploratory Characterization of a Perfluoropolyether Oil as a Possible Viscosity Standard at Deepwater Production Conditions of 533ÂK and 241ÂMPa. International Journal of Thermophysics, 2013, 34, 1845-1864.	2.1	21
28	Experimental density measurements of bis(2-ethylhexyl) phthalate at elevated temperatures and pressures. Journal of Chemical Thermodynamics, 2013, 63, 102-107.	2.0	9
29	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. Industrial & Engineering Chemistry Research, 2013, 52, 11732-11740.	3.7	8
30	Design principles for supercritical CO2 viscosifiers. Soft Matter, 2012, 8, 7044.	2.7	63
31	CO₂ Capture Using Phase-Changing Sorbents. Energy & Fuels, 2012, 26, 2528-2538.	5.1	45
32	Solid CO2-philes as potential phase-change physical solvents for CO2. Journal of Supercritical Fluids, 2012, 61, 212-220.	3.2	7
33	Critical Assessment of CO₂ Solubility in Volatile Solvents at 298.15 K. Journal of Chemical & Engineering Data, 2011, 56, 1565-1572.	1.9	49
34	The CO2 permeability and mixed gas CO2/H2 selectivity of membranes composed of CO2-philic polymers. Journal of Membrane Science, 2011, 372, 29-39.	8.2	68
35	Aminosilicone Solvents for CO₂ Capture. ChemSusChem, 2010, 3, 919-930.	6.8	57
36	CO₂-philic Oligomers as Novel Solvents for CO₂Absorption. Energy & Fuels, 2010, 24, 6214-6219.	5.1	42

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37	Solubility of CO2 in CO2-philic oligomers; COSMOtherm predictions and experimental results. Fluid Phase Equilibria, 2009, 287, 26-32.	2.5	55
38	Influence of tert-amine groups on the solubility of polymers in CO2. Polymer, 2009, 50, 2436-2444.	3.8	42
39	Design and Evaluation of Nonfluorous CO₂-Soluble Oligomers and Polymers. Journal of Physical Chemistry B, 2009, 113, 14971-14980.	2.6	69
40	Tri-tert-butylphenol: A highly CO2-soluble sand binder. Journal of Supercritical Fluids, 2008, 44, 1-7.	3.2	11
41	Cellulose triacetate oligomers exhibit high solubility in dense CO2. Green Chemistry, 2008, 10, 756.	9.0	13
42	Phase Behavior of Poly(propylene glycol) Monobutyl Ethers in Dense CO₂. Journal of Chemical & Engineering Data, 2008, 53, 1342-1345.	1.9	9
43	The Effect of Continuous H₂S Exposure on the Performance of Thick Palladium-Copper Alloy Membranes. ACS Symposium Series, 2007, , 135-152.	0.5	3
44	Phase Behavior of Oxygen-Containing Polymers in CO2. Macromolecules, 2007, 40, 1332-1341.	4.8	95
45	Fiber Formation by Highly CO2-Soluble Bisureas Containing Peracetylated Carbohydrate Groups. Angewandte Chemie - International Edition, 2007, 46, 3284-3287.	13.8	31
46	Global phase behavior for CO2-philic solids: the CO2+Î²-d-maltose octaacetate system. Journal of Supercritical Fluids, 2005, 34, 11-16.	3.2	38
47	Oxygenated Hydrocarbon Ionic Surfactants Exhibit CO2Solubility. Journal of the American Chemical Society, 2005, 127, 11754-11762.	13.7	85
48	Synthesis and Solubility of Linear Poly(tetrafluoroethylene-co-vinyl acetate) in Dense CO2:Â Experimental and Molecular Modeling Results. Macromolecules, 2004, 37, 7799-7807.	4.8	55
49	The high CO2-solubility of per-acetylated Î±-, Î²-, and Î³-cyclodextrin. Fluid Phase Equilibria, 2003, 211, 211-217.	2.5	66
50	Thickening Carbon Dioxide With the Fluoroacrylate-Styrene Copolymer. SPE Journal, 2003, 8, 85-91.	3.1	46
51	Effect of Concentration and Degree of Saturation on RESS of a CO2-Soluble Fluoropolymer. Industrial & Engineering Chemistry Research, 2002, 41, 4976-4983.	3.7	70
52	Peracetylated Sugar Derivatives Show High Solubility in Liquid and Supercritical Carbon Dioxide. Organic Letters, 2002, 4, 2333-2335.	4.6	95
53	Remediation of Metal-Bearing Aqueous Waste Streams via Direct Carbonation. Energy & Fuels, 2001, 15, 256-262.	5.1	32
54	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

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55	Enhancement of the Viscosity of Carbon Dioxide Using Styrene/Fluoroacrylate Copolymers. Macromolecules, 2000, 33, 5437-5442.	4.8	113
56	A mathematical model of an isothermal, flue gas desulforization, copper oxide moving-bed reactor. Environmental Progress, 1999, 18, 60-68.	0.7	1
57	Carbon-Dioxide-Based Microsortation of Postconsumer Polyolefins and its Effect on Polyolefin Properties. Polymer-Plastics Technology and Engineering, 1999, 38, 433-444.	1.9	0
58	Phase behavior of CO2â€“perfluoropolyether oil mixtures and CO2â€“perfluoropolyether chelating agent mixtures. Journal of Supercritical Fluids, 1998, 13, 121-126.	3.2	38
59	Modeling the High-Pressure Ammoniaâ^'Water System with WATAM and the Pengâ^'Robinson Equation of State for Kalina Cycle Studies. Industrial & Engineering Chemistry Research, 1998, 37, 1644-1650.	3.7	21
60	CO2 SOLUBILITY IN WATER AND BRINE UNDER RESERVOIR CONDITIONS. Chemical Engineering Communications, 1990, 90, 23-33.	2.6	210
61	Direct Viscosity Enhancement of Carbon Dioxide. ACS Symposium Series, 1989, , 122-139.	0.5	22
62	A CORRELATION FOR THE ACCELERATION LENGTH IN VERTICAL GAS-SOLID TRANSPORT. Chemical Engineering Communications, 1986, 49, 127-131.	2.6	4
63	Carbon Dioxide-in-Oil (C/O) Emulsions Stabilized by Silica Nanoparticles Functionalized with Oleophilic and CO₂-philic Ligands. Industrial & Engineering Chemistry Research, 0, , .	3.7	2