

Aaron Scurto

List of Publications by Year in descending order

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64
papers

2,497
citations

218677

26
h-index

197818

49
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68
all docs

68
docs citations

68
times ranked

2462
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal conductivity of the ionic liquid [HMIm][Tf ₂ N] with compressed carbon dioxide. <i>AICHE Journal</i> , 2022, 68, .	3.6	5
2	Viscosity and Density of an ISO VG 32 Polyol Ester Lubricant Saturated with Compressed Hydrofluorocarbon Gases: R-134a, R-32, and R-125. <i>Journal of Chemical & Engineering Data</i> , 2022, 67, 1824-1833.	1.9	2
3	Gas solubility in ionic liquids. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021, 28, 100425.	5.9	21
4	Power generation from waste heat: Ionic liquid-based absorption cycle versus organic Rankine cycle. <i>AICHE Journal</i> , 2021, 67, e17038.	3.6	2
5	Viscosity and Density of a Polyol Ester Lubricating Oil Saturated with Compressed Hydrofluoroolefin Refrigerants. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 4335-4346.	1.9	14
6	Review of Isobutane Alkylation Technology Using Ionic Liquid-Based Catalysts—Where Do We Stand?. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 15811-15838.	3.7	28
7	Solubility and Diffusivity of Hydrofluoroolefin Refrigerants in a Polyol Ester Lubricant. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 6279-6287.	3.7	10
8	Phase equilibrium and diffusivities of hydrofluorocarbons in a synthetic polyol ester lubricant. <i>AICHE Journal</i> , 2020, 66, e16241.	3.6	6
9	High-Pressure Vapor-Liquid Equilibria of 1-Alkyl-1-Methylpyrrolidinium Bis(trifluoromethylsulfonyl)imide Ionic Liquids and CO ₂ . <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 4668-4678.	1.9	9
10	Understanding Sulfur Content in Alkylate from Sulfuric Acid-Catalyzed C ₃ /C ₄ Alkylations. <i>Energy & Fuels</i> , 2019, 33, 4659-4670.	5.1	6
11	Viscosity of 1-Alkyl-1-methylpyrrolidinium Bis(trifluoromethylsulfonyl)imide Ionic Liquids Saturated with Compressed CO ₂ . <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 4658-4667.	1.9	14
12	Viscosity of compressed CO ₂ -saturated n-alkanes: CO ₂ /n-hexane, CO ₂ /n-decane, and CO ₂ /n-tetradecane. <i>Journal of Supercritical Fluids</i> , 2018, 133, 411-420.	3.2	24
13	Viscosity and self-diffusivity of ionic liquids with compressed hydrofluorocarbons: 1-Hexyl-3-methyl-imidazolium bis(trifluoromethylsulfonyl)amide and 1,1,1,2-tetrafluoroethane. <i>Fluid Phase Equilibria</i> , 2017, 437, 34-42.	2.5	22
14	Why Wasn't My Manuscript Sent Out for Review?. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 7109-7111.	3.7	5
15	Enzymatic degradation of polyacrylamide in aqueous solution with peroxidase and H ₂ O ₂ . <i>Journal of Applied Polymer Science</i> , 2017, 134, .	2.6	22
16	Heat Transport Properties of CO ₂ -Expanded Liquids: n-Hexane, n-Decane, and n-Tetradecane. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 12822-12832.	3.7	7
17	Viscosity and Rheology of Ionic Liquid Mixtures Containing Cellulose and Cosolvents for Advanced Processing. <i>ACS Symposium Series</i> , 2017, , 189-208.	0.5	4
18	Ionic Liquids: Current State and Future Directions. <i>ACS Symposium Series</i> , 2017, , 1-13.	0.5	16

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19	Cellulose Solubility in Ionic Liquid Mixtures: Temperature, Cosolvent, and Antisolvent Effects. <i>Journal of Physical Chemistry B</i> , 2016, 120, 7906-7919.	2.6	129
20	Reversible and non-reactive cellulose separations from ionic liquid mixtures with compressed carbon dioxide. <i>Chemical Communications</i> , 2015, 51, 12649-12652.	4.1	11
21	ACS Virtual Issue on Carbon Capture and Sequestration. <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 2187-2187.	1.9	3
22	Kinetics and polarity effects in the synthesis of the ionic liquid, 1-hexyl-3-methyl-imidazolium bromide, using compressed CO ₂ . <i>Journal of Supercritical Fluids</i> , 2015, 96, 171-179.	3.2	4
23	Vapor-liquid equilibrium in the production of the ionic liquid, 1-hexyl-3-methylimidazolium bromide ([HmIm][Br]), in acetone. <i>Fluid Phase Equilibria</i> , 2014, 365, 11-19.	2.5	7
24	The Future of Carbon Dioxide for Polymer Processing in Tissue Engineering. <i>Tissue Engineering - Part B: Reviews</i> , 2013, 19, 221-232.	4.8	50
25	Effect of different sintering methods on bioactivity and release of proteins from PLGA microspheres. <i>Materials Science and Engineering C</i> , 2013, 33, 4343-4351.	7.3	22
26	Tailoring of processing parameters for sintering microsphere-based scaffolds with dense-phase carbon dioxide. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013, 101B, 330-337.	3.4	17
27	Subcritical CO ₂ sintering of microspheres of different polymeric materials to fabricate scaffolds for tissue engineering. <i>Materials Science and Engineering C</i> , 2013, 33, 4892-4899.	7.3	25
28	High-Pressure Viscosity of Soybean-Oil-Based Biodiesel Blends with Ultra-Low-Sulfur Diesel Fuel. <i>Energy & Fuels</i> , 2012, 26, 7023-7036.	5.1	22
29	Viscosity and Diffusivity for the Ionic Liquid 1-Hexyl-3-methyl-imidazolium Bis(trifluoromethylsulfonyl)amide with 1-Octene. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 3715-3721.	1.9	22
30	High-Pressure Viscosity of Biodiesel from Soybean, Canola, and Coconut Oils. <i>Energy & Fuels</i> , 2010, 24, 5708-5716.	5.1	40
31	High-pressure phase equilibria of {carbon dioxide (CO ₂)+n-alkyl-imidazolium bis(trifluoromethylsulfonyl)amide} ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2010, 42, 305-311.	2.0	123
32	Microsphere-based scaffolds for cartilage tissue engineering: Using subcritical CO ₂ as a sintering agent. <i>Acta Biomaterialia</i> , 2010, 6, 137-143.	8.3	85
33	Design of ionic liquids via computational molecular design. <i>Computers and Chemical Engineering</i> , 2010, 34, 1476-1480.	3.8	62
34	Phase Equilibrium, Volumetric, and Interfacial Properties of the Ionic Liquid, 1-Hexyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)amide and 1-Octene. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 1611-1617.	1.9	44
35	Hydrogenation in Biphasic Ionic Liquid-Carbon Dioxide Systems. <i>ACS Symposium Series</i> , 2009, , 218-234.	0.5	8
36	Whole-Cell Biocatalysis with Ionic Liquids. <i>Current Organic Chemistry</i> , 2009, 13, 1242-1258.	1.6	44

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37	Gas-Expanded Liquids: Fundamentals and Applications. ACS Symposium Series, 2009, , 3-37.	0.5	38
38	Improved 1-butene/isobutane alkylation with acidic ionic liquids and tunable acid/ionic liquid mixtures. Journal of Catalysis, 2009, 268, 243-250.	6.2	107
39	Global phase behavior of imidazolium ionic liquids and compressed 1,1,1,2-tetrafluoroethane (R-134a). AIChE Journal, 2009, 55, 486-493.	3.6	26
40	Phase equilibria of imidazolium ionic liquids and the refrigerant gas, 1,1,1,2-tetrafluoroethane (R-134a). Fluid Phase Equilibria, 2009, 286, 1-7.	2.5	101
41	Viscosity of n-alkyl-3-methyl-imidazolium bis(trifluoromethylsulfonyl)amide ionic liquids saturated with compressed CO ₂ . Fluid Phase Equilibria, 2009, 286, 72-78.	2.5	64
42	High-pressure phase equilibria for the synthesis of ionic liquids in compressed CO ₂ for 1-hexyl-3-methylimidazolium bromide with 1-bromohexane and 1-methylimidazole. Journal of Supercritical Fluids, 2009, 51, 1-9.	3.2	27
43	High-pressure phase equilibrium for the hydroformylation of 1-octene to nonanal in compressed CO ₂ . Journal of Supercritical Fluids, 2009, 51, 142-147.	3.2	14
44	Understanding Biphasic Ionic Liquid/CO ₂ Systems for Homogeneous Catalysis: Hydroformylation. Industrial & Engineering Chemistry Research, 2009, 48, 4254-4265.	3.7	44
45	Reply to "Comment on "Characterization of the Ability of CO ₂ to Act as an Antisolvent for Ionic Liquid/Organic Mixtures". Journal of Physical Chemistry B, 2009, 113, 6581-6581.	2.6	4
46	Solubilities of CO and H ₂ in Neat and CO ₂ -Expanded Hydroformylation Reaction Mixtures Containing 1-Octene and Nonanal up to 353.15 K and 9 MPa. Journal of Chemical & Engineering Data, 2009, 54, 1633-1642.	1.9	28
47	Kinetics and solvent effects in the synthesis of ionic liquids: imidazolium. Green Chemistry, 2009, 11, 694.	9.0	50
48	Phase Behavior and Equilibria of Ionic Liquids and Refrigerants: 1-Ethyl-3-methyl-imidazolium Bis(trifluoromethylsulfonyl)imide ([EMIm][Tf ₂ N]) and R-134a. ACS Symposium Series, 2009, , 112-128.	0.5	15
49	Viscosity of Imidazolium-Based Ionic Liquids at Elevated Pressures: Cation and Anion Effects. International Journal of Thermophysics, 2008, 29, 1222-1243.	2.1	174
50	Melting Point Depression of Ionic Liquids with CO ₂ : Phase Equilibria. Industrial & Engineering Chemistry Research, 2008, 47, 493-501.	3.7	69
51	Carbon Dioxide Solubility Enhancement through Silicone Functionalization: "CO ₂ -philic" Oligo(dimethylsiloxane)-substituted Diphosphonates". Separation Science and Technology, 2008, 43, 2520-2536.	2.5	17
52	High-pressure phase equilibria with compressed gases. Review of Scientific Instruments, 2007, 78, 125104.	1.3	47
53	Expanding the useful range of ionic liquids: melting point depression of organic salts with carbon dioxide for biphasic catalytic reactions. Chemical Communications, 2006, , 3681.	4.1	82
54	Ternary Phase Behavior of Ionic Liquid (IL)-Organic-CO ₂ Systems. Industrial & Engineering Chemistry Research, 2006, 45, 5574-5585.	3.7	64

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55	Recent Progress in the Development of Supercritical Carbon Dioxide-Soluble Metal Ion Extractants: Solubility Enhancement through Silicon Functionalization. ACS Symposium Series, 2006, , 250-267.	0.5	0
56	Other Biphasic Concepts: Section 7.4. , 2005, , 665-685.		0
57	Carbon dioxide induced separation of ionic liquids and water. Chemical Communications, 2003, , 572-573.	4.1	124
58	Phase Behavior and Reliable Computation of High-Pressure Solid~Fluid Equilibrium with Cosolvents. Industrial & Engineering Chemistry Research, 2003, 42, 6464-6475.	3.7	16
59	Experimental Measurement and Modeling of the Vapor-Liquid Equilibrium of β -Diketones with CO ₂ . ACS Symposium Series, 2003, , 245-258.	0.5	0
60	CO ₂ as a Separation Switch for Ionic Liquid/Organic Mixtures. Journal of the American Chemical Society, 2002, 124, 10276-10277.	13.7	312
61	Spectroscopy, Solubility, and Modeling of Cosolvent Effects on Metal Chelate Complexes in Supercritical Carbon Dioxide Solutions. Industrial & Engineering Chemistry Research, 2001, 40, 980-989.	3.7	37
62	Experimental measurement and modeling of the vapor~liquid equilibrium of carbon dioxide + chloroform. Fluid Phase Equilibria, 2001, 190, 135-147.	2.5	27
63	Modeling of solid~supercritical fluid phase equilibria with a cubic equation of state~Gex model. Journal of Supercritical Fluids, 2001, 21, 123-134.	3.2	22
64	Reliable Computation of High-Pressure Solid~Fluid Equilibrium. Industrial & Engineering Chemistry Research, 2000, 39, 1624-1636.	3.7	51