

David L Tomasko

List of Publications by Year in descending order

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51
papers

3,294
citations

230014

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214428

50
g-index

53
all docs

53
docs citations

53
times ranked

2948
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding drug release from PCL/gelatin electrospun blends. Journal of Biomaterials Applications, 2017, 31, 933-949.	1.2	44
2	Role of Confinement on Adsorption and Dynamics of Ethane and an Ethane-CO ₂ Mixture in Mesoporous CPG Silica. Journal of Physical Chemistry C, 2016, 120, 4843-4853.	1.5	28
3	Dual drug release from CO ₂ -infused nanofibers via hydrophobic and hydrophilic interactions. Journal of Applied Polymer Science, 2015, 132, .	1.3	13
4	Beyond classical theory: Predicting the free energy barrier of bubble nucleation in polymer foaming. AICHE Journal, 2013, 59, 3042-3053.	1.8	19
5	Carbon dioxide infusion of composite electrospun fibers for tissue engineering. Journal of Supercritical Fluids, 2012, 70, 90-99.	1.6	14
6	CO ₂ bubble nucleation in polystyrene: Experimental and modeling studies. Journal of Applied Polymer Science, 2012, 125, 2170-2186.	1.3	13
7	Analyzing surface tension in higher alkanes and their CO ₂ mixtures. Fluid Phase Equilibria, 2012, 319, 67-76.	1.4	12
8	Comparison of nanoclay and carbon nanofiber particles on rheology of molten polystyrene nanocomposites under supercritical carbon dioxide. Journal of Applied Polymer Science, 2010, 116, 1068-1076.	1.3	2
9	Density functional approach for modeling CO ₂ pressurized polymer thin films in equilibrium. Journal of Chemical Physics, 2009, 130, 084902.	1.2	4
10	Development of CO ₂ for polymer foam applications. Journal of Supercritical Fluids, 2009, 47, 493-499.	1.6	124
11	Shear Viscosity of CO ₂ -Plasticized Polystyrene Under High Static Pressures. Industrial & Engineering Chemistry Research, 2009, 48, 5460-5471.	1.8	22
12	Effects of orthopedic implants with a polycaprolactone polymer coating containing bone morphogenetic protein-2 on osseointegration in bones of sheep. American Journal of Veterinary Research, 2009, 70, 1416-1425.	0.3	9
13	CO ₂ Permeability of Polystyrene Nanocomposites and Nanocomposite Foams. Industrial & Engineering Chemistry Research, 2008, 47, 9636-9643.	1.8	18
14	Novel Dense CO ₂ Technique for β -Galactosidase Immobilization in Polystyrene Microchannels. Biomacromolecules, 2008, 9, 1027-1034.	2.6	16
15	Comparison of Carbon Nanofibers and Activated Carbon on Carbon Dioxide Foaming of Polystyrene. Journal of Cellular Plastics, 2008, 44, 453-468.	1.2	18
16	Carbon dioxide sorption and dilation of poly(lactide-co-glycolide). Journal of Supercritical Fluids, 2007, 39, 416-425.	1.6	57
17	The effect of supercritical CO ₂ as a reversible plasticizer and foaming agent on the hot stage extrusion of itraconazole with EC 20cps. Journal of Supercritical Fluids, 2007, 40, 153-162.	1.6	47
18	Chemotherapeutic implants via subcritical CO ₂ modification. Biomaterials, 2007, 28, 5562-5569.	5.7	14

#	ARTICLE	IF	CITATIONS
19	CO2 foaming based on polystyrene/poly(methyl methacrylate) blend and nanoclay. Polymer Engineering and Science, 2007, 47, 103-111.	1.5	80
20	Work in Progress: Micro-/Nano-technology 'Lab-on-a-chip' Research Project for First-Year Honors Engineering Program. , 2006, , .		0
21	CO2 Foaming of Polymer Nanocomposite Blends. Australian Journal of Chemistry, 2005, 58, 492.	0.5	19
22	Fabrication of well-defined PLGA scaffolds using novel microembossing and carbon dioxide bonding. Biomaterials, 2005, 26, 2585-2594.	5.7	68
23	CO2-Induced PMMA Swelling and Multiple Thermodynamic Property Analysis Using Sanchezâ~Lacombe EOS. Macromolecules, 2005, 38, 4416-4424.	2.2	64
24	Bioactive polymer surfaces via supercritical fluids. Journal of Supercritical Fluids, 2004, 28, 241-248.	1.6	53
25	High-Pressure Adsorption of CO2 on NaY Zeolite and Model Prediction of Adsorption Isotherms. Langmuir, 2004, 20, 8083-8089.	1.6	75
26	Effect of Carbon Dioxide on the Interfacial Tension of Polymer Melts. Industrial & Engineering Chemistry Research, 2004, 43, 509-514.	1.8	66
27	Effect of die temperature on the morphology of microcellular foams. Polymer Engineering and Science, 2003, 43, 1206-1220.	1.5	55
28	Extrusion of polystyrene nanocomposite foams with supercritical CO2. Polymer Engineering and Science, 2003, 43, 1261-1275.	1.5	215
29	A Review of CO2 Applications in the Processing of Polymers. Industrial & Engineering Chemistry Research, 2003, 42, 6431-6456.	1.8	615
30	Supercritical fluid applications in polymer nanocomposites. Current Opinion in Solid State and Materials Science, 2003, 7, 407-412.	5.6	82
31	Polymer Nanocomposite Foams Prepared by Supercritical Fluid Foaming Technology. Materials Research Society Symposia Proceedings, 2002, 733, 1.	0.1	1
32	Morphology and mechanical properties of polypropylene/organoclay nanocomposites. Journal of Applied Polymer Science, 2002, 85, 1562-1570.	1.3	232
33	Continuous microcellular polystyrene foam extrusion with supercritical CO2. Polymer Engineering and Science, 2002, 42, 2094-2106.	1.5	117
34	Effect of supercritical carbon dioxide on PMMA/rubber and polystyrene/rubber blending: Viscosity ratio and phase inversion. Polymer Engineering and Science, 2001, 41, 2108-2125.	1.5	43
35	High-resolution adsorption isotherms of supercritical carbon dioxide on activated carbon. AIChE Journal, 2000, 46, 2065-2075.	1.8	128
36	Effect of supercritical carbon dioxide on morphology development during polymer blending. Polymer Engineering and Science, 2000, 40, 1850-1861.	1.5	56

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37	Supercritical carbon dioxide assisted blending of polystyrene and poly(methyl methacrylate). <i>Polymer Engineering and Science</i> , 1999, 39, 2075-2084.	1.5	78
38	Tailoring of specific interactions to modify the morphology of naproxen. <i>Journal of Crystal Growth</i> , 1999, 205, 233-243.	0.7	19
39	Dynamics of a linked supercritical extraction-biodegradation process for organic wastes. <i>Chemical Engineering Science</i> , 1998, 53, 189-201.	1.9	3
40	Supercritical Fluid Extraction and Temperature-Programmed Desorption of Phenol and Its Oxidative Coupling Products from Activated Carbon. <i>Industrial & Engineering Chemistry Research</i> , 1998, 37, 3089-3097.	1.8	26
41	High pressure flow gravimetric apparatus for supercritical fluid extraction studies. <i>Review of Scientific Instruments</i> , 1997, 68, 4542-4548.	0.6	5
42	Coating and Impregnation of a Nonwoven Fibrous Polyethylene Material with a Nonionic Surfactant Using Supercritical Carbon Dioxide. <i>Industrial & Engineering Chemistry Research</i> , 1997, 36, 1586-1597.	1.8	23
43	Microencapsulation of Naproxen Using Rapid Expansion of Supercritical Solutions. <i>Biotechnology Progress</i> , 1996, 12, 650-661.	1.3	148
44	Removal of Pollutants from Solid Matrices Using Supercritical Fluids. <i>Separation Science and Technology</i> , 1995, 30, 1901-1915.	1.3	12
45	Viscosity correlations for binary supercritical fluids. <i>Industrial & Engineering Chemistry Research</i> , 1994, 33, 681-688.	1.8	45
46	Pilot scale study and design of a granular activated carbon regeneration process using supercritical fluids. <i>Environmental Progress</i> , 1993, 12, 208-217.	0.8	18
47	Influence of chemical modifiers on the solubility of o- and m-hydroxybenzoic acid in supercritical carbon dioxide. <i>Industrial & Engineering Chemistry Research</i> , 1993, 32, 1488-1497.	1.8	95
48	Chemical-physical interpretation of cosolvent effects in supercritical fluids. <i>Industrial & Engineering Chemistry Research</i> , 1993, 32, 1482-1487.	1.8	42
49	Solubility of naproxen in supercritical carbon dioxide with and without cosolvents. <i>Industrial & Engineering Chemistry Research</i> , 1993, 32, 1471-1481.	1.8	210
50	Fluorescence Spectroscopy Study of Alcohol-Solute Interactions in Supercritical Carbon Dioxide. <i>ACS Symposium Series</i> , 1992, , 220-227.	0.5	3
51	Fluorescence spectroscopy studies of dilute supercritical solutions. <i>Industrial & Engineering Chemistry Research</i> , 1990, 29, 1682-1690.	1.8	121