

# David L Tomasko

## List of Publications by Citations

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50  
papers

2,965  
citations

26  
h-index

53  
g-index

53  
ext. papers

3,120  
ext. citations

3.9  
avg, IF

4.65  
L-index

#	Paper	IF	Citations
50	A Review of CO <sub>2</sub> Applications in the Processing of Polymers. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2003</b> , 42, 6431-6456	3.9	567
49	Morphology and mechanical properties of polypropylene/organoclay nanocomposites. <i>Journal of Applied Polymer Science</i> , <b>2002</b> , 85, 1562-1570	2.9	208
48	Extrusion of polystyrene nanocomposite foams with supercritical CO <sub>2</sub> . <i>Polymer Engineering and Science</i> , <b>2003</b> , 43, 1261-1275	2.3	196
47	Solubility of naproxen in supercritical carbon dioxide with and without cosolvents. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1993</b> , 32, 1471-1481	3.9	188
46	Microencapsulation of Naproxen Using Rapid Expansion of Supercritical Solutions. <i>Biotechnology Progress</i> , <b>1996</b> , 12, 650-661	2.8	127
45	High-resolution adsorption isotherms of supercritical carbon dioxide on activated carbon. <i>AIChE Journal</i> , <b>2000</b> , 46, 2065-2075	3.6	112
44	Development of CO <sub>2</sub> for polymer foam applications. <i>Journal of Supercritical Fluids</i> , <b>2009</b> , 47, 493-499	4.2	110
43	Continuous microcellular polystyrene foam extrusion with supercritical CO <sub>2</sub> . <i>Polymer Engineering and Science</i> , <b>2002</b> , 42, 2094-2106	2.3	102
42	Fluorescence spectroscopy studies of dilute supercritical solutions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1990</b> , 29, 1682-1690	3.9	98
41	Influence of chemical modifiers on the solubility of o- and m-hydroxybenzoic acid in supercritical carbon dioxide. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1993</b> , 32, 1488-1497	3.9	89
40	CO <sub>2</sub> foaming based on polystyrene/poly(methyl methacrylate) blend and nanoclay. <i>Polymer Engineering and Science</i> , <b>2007</b> , 47, 103-111	2.3	77
39	Supercritical carbon dioxide assisted blending of polystyrene and poly(methyl methacrylate). <i>Polymer Engineering and Science</i> , <b>1999</b> , 39, 2075-2084	2.3	74
38	High-pressure adsorption of CO <sub>2</sub> on NaY zeolite and model prediction of adsorption isotherms. <i>Langmuir</i> , <b>2004</b> , 20, 8083-9	4	72
37	Supercritical fluid applications in polymer nanocomposites. <i>Current Opinion in Solid State and Materials Science</i> , <b>2003</b> , 7, 407-412	12	72
36	Effect of Carbon Dioxide on the Interfacial Tension of Polymer Melts. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2004</b> , 43, 509-514	3.9	63
35	CO <sub>2</sub> -Induced PMMA Swelling and Multiple Thermodynamic Property Analysis Using Sanchez-Iacombe EOS. <i>Macromolecules</i> , <b>2005</b> , 38, 4416-4424	5.5	62
34	Fabrication of well-defined PLGA scaffolds using novel microembossing and carbon dioxide bonding. <i>Biomaterials</i> , <b>2005</b> , 26, 2585-94	15.6	59

33	Effect of die temperature on the morphology of microcellular foams. <i>Polymer Engineering and Science</i> , <b>2003</b> , 43, 1206-1220	2.3	54
32	Carbon dioxide sorption and dilation of poly(lactide-co-glycolide). <i>Journal of Supercritical Fluids</i> , <b>2007</b> , 39, 416-425	4.2	50
31	Bioactive polymer surfaces via supercritical fluids. <i>Journal of Supercritical Fluids</i> , <b>2004</b> , 28, 241-248	4.2	49
30	Effect of supercritical carbon dioxide on morphology development during polymer blending. <i>Polymer Engineering and Science</i> , <b>2000</b> , 40, 1850-1861	2.3	49
29	The effect of supercritical CO <sub>2</sub> as a reversible plasticizer and foaming agent on the hot stage extrusion of itraconazole with EC 20 cps. <i>Journal of Supercritical Fluids</i> , <b>2007</b> , 40, 153-162	4.2	42
28	Viscosity correlations for binary supercritical fluids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1994</b> , 33, 681-688	3.9	42
27	Effect of supercritical carbon dioxide on PMMA/rubber and polystyrene/rubber blending: Viscosity ratio and phase inversion. <i>Polymer Engineering and Science</i> , <b>2001</b> , 41, 2108-2125	2.3	40
26	Chemical-physical interpretation of cosolvent effects in supercritical fluids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1993</b> , 32, 1482-1487	3.9	34
25	Understanding drug release from PCL/gelatin electrospun blends. <i>Journal of Biomaterials Applications</i> , <b>2017</b> , 31, 933-949	2.9	33
24	Role of Confinement on Adsorption and Dynamics of Ethane and an Ethane/CO <sub>2</sub> Mixture in Mesoporous CPG Silica. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 4843-4853	3.8	22
23	Supercritical Fluid Extraction and Temperature-Programmed Desorption of Phenol and Its Oxidative Coupling Products from Activated Carbon. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1998</b> , 37, 3089-3097	3.9	22
22	Coating and Impregnation of a Nonwoven Fibrous Polyethylene Material with a Nonionic Surfactant Using Supercritical Carbon Dioxide. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1997</b> , 36, 1586-1597	3.9	21
21	CO <sub>2</sub> Foaming of Polymer Nanocomposite Blends. <i>Australian Journal of Chemistry</i> , <b>2005</b> , 58, 492	1.2	18
20	Tailoring of specific interactions to modify the morphology of naproxen. <i>Journal of Crystal Growth</i> , <b>1999</b> , 205, 233-243	1.6	18
19	Beyond classical theory: Predicting the free energy barrier of bubble nucleation in polymer foaming. <i>AIChE Journal</i> , <b>2013</b> , 59, 3042-3053	3.6	17
18	CO <sub>2</sub> Permeability of Polystyrene Nanocomposites and Nanocomposite Foams. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 9636-9643	3.9	17
17	Shear Viscosity of CO <sub>2</sub> -Plasticized Polystyrene Under High Static Pressures. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 5460-5471	3.9	16
16	Novel dense CO <sub>2</sub> technique for beta-galactosidase immobilization in polystyrene microchannels. <i>Biomacromolecules</i> , <b>2008</b> , 9, 1027-34	6.9	16

15	Pilot scale study and design of a granular activated carbon regeneration process using supercritical fluids. <i>Environmental Progress</i> , <b>1993</b> , 12, 208-217		16
14	Comparison of Carbon Nanofibers and Activated Carbon on Carbon Dioxide Foaming of Polystyrene. <i>Journal of Cellular Plastics</i> , <b>2008</b> , 44, 453-468	1.5	15
13	Carbon dioxide infusion of composite electrospun fibers for tissue engineering. <i>Journal of Supercritical Fluids</i> , <b>2012</b> , 70, 90-99	4.2	14
12	CO2 bubble nucleation in polystyrene: Experimental and modeling studies. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 125, 2170-2186	2.9	13
11	Chemotherapeutic implants via subcritical CO2 modification. <i>Biomaterials</i> , <b>2007</b> , 28, 5562-9	15.6	13
10	Removal of Pollutants from Solid Matrices Using Supercritical Fluids. <i>Separation Science and Technology</i> , <b>1995</b> , 30, 1901-1915	2.5	12
9	Dual drug release from CO2-infused nanofibers via hydrophobic and hydrophilic interactions. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	11
8	Analyzing surface tension in higher alkanes and their CO2 mixtures. <i>Fluid Phase Equilibria</i> , <b>2012</b> , 319, 67-76	2.5	10
7	Effects of orthopedic implants with a polycaprolactone polymer coating containing bone morphogenetic protein-2 on osseointegration in bones of sheep. <i>American Journal of Veterinary Research</i> , <b>2009</b> , 70, 1416-25	1.1	8
6	High pressure flow gravimetric apparatus for supercritical fluid extraction studies. <i>Review of Scientific Instruments</i> , <b>1997</b> , 68, 4542-4548	1.7	5
5	Density functional approach for modeling CO2 pressurized polymer thin films in equilibrium. <i>Journal of Chemical Physics</i> , <b>2009</b> , 130, 084902	3.9	3
4	Dynamics of a linked supercritical extraction-biodegradation process for organic wastes. <i>Chemical Engineering Science</i> , <b>1998</b> , 53, 189-201	4.4	3
3	Supercritical Fluids <b>2006</b> ,		3
2	Fluorescence Spectroscopy Study of Alcohol/Solute Interactions in Supercritical Carbon Dioxide. <i>ACS Symposium Series</i> , <b>1992</b> , 220-227	0.4	2
1	Polymer Nanocomposite Foams Prepared by Supercritical Fluid Foaming Technology. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 733, 1		1