

1990-1999 Refereed Publications

(DeSimone has >7000 citations as measured by Science Citation Index in January 2008; DeSimone's Hirsch Index "*h*-Index" = 42, that is he has 42 papers with 42 or more citations, see Hirsch, J. E. *Proc. Nat. Acad. Sci.* **2005**, *46*, 16569)

1. "Perfluoropolyether Synthesis in Liquid Carbon Dioxide by Hexafluoropropylene Photooxidation"; Bunyard, W. C.; Romack, T. J.; DeSimone*, J. M. *Macromolecules* **1999**, *32*, 8224-8226. (# of citations = 13)
2. "Atom Transfer Radical Polymerization in Supercritical Carbon Dioxide" Xia, J.; Johnson, T.; Gaynor, S.; Matyjaszewski*, K.; DeSimone*, J. M. *Macromolecules* **1999**, *32*, 4802-4805. (# of citations = 70)
3. "Supercritical CO₂ as a Solvent for Polymeric Stone Protective Materials"; Henon, F. E.; Camaiti, M.; Burke, A. L. C.; Carbonell*, R. G.; DeSimone, J. M.; Piacenti, F. *J. Supercrit. Fluids* **1999**, *15*(2), 173-179. (# of citations = 30)
4. "Solid State Polymerization of Polycarbonates Using Supercritical CO₂"; Gross, S. M.; Flowers, D.; Roberts, G.; Kiserow, D. J.; DeSimone*, J. M. *Macromolecules* **1999**, *32*, 3167-3169. (# of citations = 25)
5. "Polymerizations in Supercritical Carbon Dioxide" Kendall, J.L.; Canelas, D.A.; Young, J.L.; DeSimone, J.M. *Chem. Rev.* **1999**, *99*, 543-563 (# of citations = 345)
6. "Small Angle Neutron Scattering from Polymers in Supercritical Carbon Dioxide" Londono, J.D.; Wignall, G.D.; McClain, J.B.; Betts, D.E.; Canelas, D.A.; DeSimone, J.M.; Samulski, E.T.; Triolo, R. *Neutron News* **1999**, *10*/2, 10-11. (# of citations = not tracked by S.C.I.)
7. "Preparation of Micron-size Polystyrene Particles in Supercritical Carbon Dioxide"; Shiho, H.; DeSimone*, J. M. *J. Polym. Sci. Part A* **1999**, *37*, 2429-2437. (# of citations = 40)
8. "Continuous Polymerizations in Supercritical Carbon Dioxide: Chain-Growth Precipitation Polymerizations" Charpentier, P.A.; Kennedy, K.A.; DeSimone, J.M.; Roberts, G.W. *Macromolecules* **1999**, *32*, 5973-5975. (# of citations = 35)
9. "Synthesis of Fluoropolymers in Liquid and Supercritical Carbon Dioxide Solvent Systems" DeYoung, J. P.; Romack, T.J.; DeSimone, J.M. In *Fluoropolymers*, Chapter. 13. Plenum Publishing, **1999**, 191-205. (# of citations = not tracked by S.C.I.)
10. "Carbon Dioxide-Induced Swelling of Poly (dimethylsiloxane)"; Royer, J. R.; DeSimone, J. M.; Khan, S. A. *Macromolecules* **1999**, *32*, 8965-8973. (# of citations = 48)
11. "Interfacial Activity of Polymeric Surfactants at the Polystyrene-Carbon Dioxide Interface"; Harrison, K. L.; da Rocha, S. R. P.; Yates, M. Z.; Johnston*, K. P.; Canelas, D.; DeSimone, J. M. *Langmuir* **1998**, *14*, 6855-6863. (# of citations = 22)
12. "Polymerizations in Dense Carbon Dioxide"; Davidson, T.; DeSimone*, J. M. in "Chemical Synthesis in Supercritical Fluids"; Jessop, P.; Leitner, J. Wiley-VCH: Weinheim, Germany **1998**. (# of citations = 1)
13. "Synthesis and Swelling of Poly(bisphenol A carbonate) Using Supercritical Carbon Dioxide"; Gross, S. M.; Givens, R. D.; Jikei, M.; Royer, J. R.; Khan, S.; DeSimone*, J. M.; O'Dell*, P. G.; Hamer, G. K. *Macromolecules* **1998**, *31*, 9090-9092. (# of citations = 19)

14. "Structure and Morphology of Poly([R,S]-beta-butyrolactone) Synthesized from Aluminoxane Catalysts"; Jaimes, C.; Arcana, M.; Brethon, A.; Mathieu, A.; Schue*, F.; DeSimone, J. M. *Eur. Polym. J.* **1998**, *34*(2), 175-185. (# of citations = 1)
15. "Poly(vinyl acetate) and Poly(vinyl acetate-co-ethylene) Latexes via Dispersion Polymerization in Carbon Dioxide"; Canelas, D. A.; Betts, D. E.; DeSimone*, J. M.; Yates, M. Z.; Johnston, K. P. *Macromolecules* **1998**, *31*, 6794-6805. (# of citations = 66)
16. "Light-Scattering Study of Diblock Copolymers in Supercritical Carbon Dioxide: CO₂ Density-Induced Micellization Transition"; Buhler, E.; Dobrynin, A.; DeSimone*, J. M.; Rubinstein*, M. *Macromolecules* **1998**, *31*, 7347-7355. (# of citations = 49)
17. "Phase Behavior of Poly(1,1-dihydroperfluorooctyl acrylate) in Supercritical Carbon Dioxide"; Luna-Barcenas, G.; Mawson, S.; Takishima, S.; DeSimone, J. M.; Sanchez, I. C.; Johnston*, K. P. *Fluid Phase Equil.* **1998**, *146*, 325-337. (# of citations = 32)
18. "Stereochemistry of Ring-Opened Metathesis Polymers Prepared in Liquid CO₂ at High Pressure Using Ru(H₂O)₆(Tos)₂ as Catalyst"; Hamilton, J. G.; Rooney, J. J.; DeSimone, J. M.; Mistele, C.; *Macromolecules* **1998**, *31*, 4387-4389. (# of citations = 11)
19. "Pulsed-Laser Polymerization of Methyl Methacrylate in Liquid and Supercritical Carbon Dioxide"; Quadir, M. A.; DeSimone*, J. M.; van Herk*, A. M.; German, A. L. *Macromolecules* **1998**, *31*, 6481-6485. (# of citations = 18)
20. Betts, D. E.; Johnson, T.; LeRoux, D.; DeSimone, J. M. In *Controlled Radical Polymerization*; Matyjaszewski, K., Ed.; ACS Symposium Series 685; American Chemical Society: Washington, DC, **1998**; pp. 418 - 432. (# of citations = not tracked by S.C.I.)
21. "Diffusion of Block Copolymers in Liquid CO₂: Evidence of Self-Assembly from Pulsed Field Gradient NMR"; Cain, J. B.; Zhang, K.; Betts, D. E.; DeSimone*, J. M.; Johnson, Jr.*, C. S. *J. Am. Chem. Soc.* **1998**, *120*, 9390-9391. (# of citations = 13)
22. "Fluorocarbons Dissolved in Supercritical Carbon Dioxide: NMR Evidence for Specific Solute-Solvent Interactions"; Dardin, A.; DeSimone, J. M.; Samulski*, E. T. *J. Phys. Chem.* **1998**, *102*, 1775-1780. (# of citations = 79)
23. "Carbon Dioxide as a Continuous Phase for Polymer Synthesis"; Canelas, D. A.; Burke, A.; DeSimone*, J. M. *Plastics Engineering* **1997**, *53*(12), 37-40.. (# of citations = 7)
24. "On the Role of Carbon Dioxide in Transition Metal Catalysis, Extractions, and Deposition"; Mistele, C.; DeSimone*, J. M. *Green Chemistry: Frontiers in Benign Chemical Synthesis and Processing* **1998**, Oxford University Press, p. 286-312. (# of citations = not tracked by S.C.I.)
25. "Detergent-Aided Cleaning of Metal Surfaces in Liquid Carbon Dioxide"; Hoggan, E. N.; Carbonell, R. G.; DeSimone, J. M.; Cramer, G. L.; Stewart, G. M. *CleanTech98 Proceedings* **1998**, 137-146; Witter Publishing, Flemington, NJ. (# of citations = not tracked by S.C.I.)
26. "Time-resolved EPR study of a 1.9-Flexible Biradical Dissolved in Liquid Carbon Dioxide. Observation of a New Spin-Relaxation Phenomenon: Alternating Intensities in Spin-correlated Radical Pair Spectra"; Avdievich, N. I.; Dukes, K. E.; Forbes*, M. D. E.; DeSimone, J. M. *J. Phys. Chem.* **1997**, *101*(4), 617-621. (# of citations = 9)

27. "XPS Analysis of Poly[(3-hydroxybutyric acid)-co-(3-hydroxyvaleric acid)] Film Surfaces Exposed to an Allylamine low-pressure Plasma"; Mas*, A.; Jaaba, H.; Shue, F.; Belu, A. M. Kassis, C.K.; Linton, R. W.; DeSimone, J. M. *Macromol. Chem. Phys.* **1997**, *198*, 3737-3752. (# of citations = 5)
28. "Stabilized Polymer Microparticles by Precipitation with a Compressed Fluid Antisolvent: 1. Poly(fluoro acrylates)"; Mawson, S.; Johnston*, K. P.; Betts, D. E.; McClain, J. B.; DeSimone*, J. M. *Macromolecules* **1997**, *30(1)*, 71-77. (# of citations = 54)
29. "Liquid-Liquid Extractions Using Dendrimer-Modified Carbon Dioxide"; Cooper, A. I.; Londono, D.; Wignall, G.; McClain, J. B.; Samulski, E. T.; Lin, J. S.; Dobrynin, A.; Rubinstein, M.; Burke, A. L. C. Frechet, J. M. J.; DeSimone*, J. M. *Nature* **1997**, *389*, 368-371. (# of citations = 179)
30. "Polymerizations in Liquid and Supercritical Carbon Dioxide"; Canelas, D. A.; DeSimone*, J. M. *Adv. Polym. Sci.* **1997**, *133*, 103-140. (# of citations = 100)
31. "Emulsion Stabilization and Flocculation in CO₂. 1. Turbidimetry and Tensiometry"; O'Neill, M. L.; Yates, M. Z.; Harrison, K. L.; Johnston*, K. P.; Canelas, D. A.; Betts, D. E.; DeSimone*, J. M.; Wilkinson, S. P. *Macromolecules* **1997**, *30*, 5050-5059. (# of citations = 49)
32. "Emulsion Stabilization and Flocculation in CO₂. 2. Dynamic Light Scattering"; Yates, M. Z.; O'Neill, M. L.; Johnston*, K. P.; Weber, S.; Canelas, D. A.; Betts, D. E.; DeSimone, J. M.; *Macromolecules* **1997**, *30*, 5060-5067. (# of citations = 40)
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34. "Dispersion Polymerizations of Styrene in Carbon Dioxide Stabilized with Poly(styrene-b-dimethylsiloxane)"; Canelas, D. A.; DeSimone*, J. M. *Macromolecules* **1997**, *30*, 5673-5682. (# of citations = 107)
35. "The Morphology of Block Copolymer Micelles in Supercritical Carbon Dioxide by Small Angle Neutron and X-ray Scattering"; Londono, J. D.; Dharmapurikar, R.; Cochran, H. D.; Wignall, G. D.; McClain, J. B.; Bets, D. E.; Canelas, D. A.; DeSimone, J. M.; Samulski, E. T.; Chillura-Martino, D.; Triolo, R. *J. Appl. Cryst.* **1997**, *30*, 690-695. (# of citations = 24)
36. "Flow System and 9.5 GHz Microwave Resonators for Time-Resolved and Steady-State Electron Paramagnetic Resonance Spectroscopy in Compressed and Supercritical Fluids"; Dukes, K. E.; Harbron, E. J.; Forbes*, M. D. E.; DeSimone, J. M. *Rev. Sci. Instrum.* **1997**, *68*, 2505-2510. (# of citations = 7)
37. "Observation of an Inverse Kinetic Isotope Effect in a Co(III)-Catalyzed Polymerization of Ethylene"; Tanner, M. J.; Brookhart*, M.; DeSimone, J. M. *J. Am. Chem. Soc.* **1997**, *119*, 7617-7618. (# of citations = 29)
38. "Investigation Into Importance of Polymer Matrix Miscibility Using MALDI-MS"; Kassis, C.; DeSimone*, J. M.; Linton*, R. W.; Lange, G. W.; Friedman, R. M. *Rapid Comm. Mass Spectrom.* **1997**, *11*, 1462-1466. (# of citations = 16)
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42. "High-Pressure NMR of Polymers Dissolved in Supercritical Carbon Dioxide"; Dardin, A.; Cain, J. B.; DeSimone*, J. M.; Johnson, Jr., C. S.; Samulski*, E. T. *Macromolecules* **1997**, *30*, 3593-3599. (# of citations = 31)
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47. "Polymer Synthesis and Characterization in Liquid/Supercritical Carbon Dioxide"; Cooper, A. I.; DeSimone*, J. M. *Current Opinion in Solid State & Materials Science* **1996**, *1*, 761-768. (# of citations = 27)
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49. "Modification of Poly[(3-Hydroxybutyric acid)-co-(3-hydroxyvaleric acid)] Film Surfaces in an Oxygen Low Pressure Plasma"; Mas, A.; Jaaba, H.; Schue*, F.; Belu, A. M.; Kassis, C.; Linton, R. W.; DeSimone, J. M. *Macromol. Chem. Phys.* **1996**, *197*, 2331-2341. (# of citations = 12)
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51. "Structural Characterization of a Polymer-Substituted Fullerene (Flagellene) by Small Angle Neutron Scattering" Affholter, K. A.; Bunick, G. J.; DeSimone, J. M.; Hunt, M. O.; Menciloglu, Y. Z.; Samulski*, E. T.; Wignall*, G. D. *Proc. Mater. Res. Soc.* **1996**. (# of citations = not tracked by S.C.I.)
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