

Refereed Publications and Recently Submitted Manuscripts:

(DeSimone has >7000 citations as measured by Science Citation Index in January 2009; DeSimone's Hirsch Index "*h*-Index" = 45, that is he has 45 papers with 45 or more citations, see Hirsch, J. E. *Proc. Nat. Acad. Sci.* **2005**, *46*, 16569)

1. "Fluoropolymer Synthesis in Supercritical Carbon Dioxide"; Du, L.; Kelly, J. Y.; Roberts, G. W.; DeSimone*, J. M. *J. Supercrit. Fluids* **2009**, *47*, 447-457.
2. "Molding Block Copolymer Micelles: A Framework for Molding of Discrete Objects on Surfaces"; Yu-Su, S. Y.; Thomas, D. R.; Alford, J. E.; LaRue, I.; Pitsikalis, M.; Hadjichristidis, N.; DeSimone, J. M.; Dobrynin, A. V.; Sheiko*, S. S. *Langmuir* **2008**, *24*, 12671-12679. (# of citations = 0)
3. "Optically Transparent, Amphiphilic Networks Based on Blends of Perfluoropolyethers and Poly(ethylene glycol)"; Hu, Z.; Chen, L.; Betts, D.; Pandya, A.; Hillmyer, M. A.; DeSimone*, J. M. *J. Am. Chem. Soc.* **2008**, *130*, 14244-14252. (# of citations = 0)
4. "The Effect of Particle Design on Cellular Internalization Pathways"; Gratton, S. E. A.; Ropp, P. A.; Pohlhaus, P. D.; Luft, J. C.; Madden, V. J.; Napier, M. E.; DeSimone*, J. M. *Proceedings of the National Academy of Sciences* **2008**, *105*(33), 11613-11618. (# of citations = 1)
5. "Electrically-Driven Alignment and Crystallization of Unique Anisotropic Polymer Particles"; Herlihy, K. P.; Nunes, Joseph M. DeSimone*, J. M.; *Langmuir* **2008**, *24*, 8421-8426. (# of citations = 0)
6. "The Pursuit of a Scalable Nano-fabrication Platform for Use in Material and Life Science Applications"; Gratton, S. E. A.; Williams, S. S.; Napier, M. E.; Pohlhaus, P. D.; Zhou, Z.; Wiles, K. B.; Maynor, B. B.; Shen, C.; Olafsen, T.; Samulski, E. T.; DeSimone*, J. M. *Accounts of Chemical Research* **2008**, *41*, 1685-1695. (# of citations = 0)
7. "Nanostructured Titania-Polymer Photovoltaic Devices Made Using PFPE-based Nano-molding Techniques"; Williams, S.; Hampton, M.; Gowrishanker, V.; Ding, I.-K.; Templeton, J.; Samulski, E.; DeSimone*, J.M.; McGehee, M.; *Chemistry of Materials*, **2008**, *20*, 5229-5234. (# of citations = 0)
8. "Shape-specific, Mono-disperse Nano-molding of Protein Particles"; Kelly, J. Y.; DeSimone*, J. M. *J. Am. Chem. Soc.* **2008**, *130*, 5438-5439. (# of citations = 2)
9. "Microfabricated Particles for Engineered Drug Therapies: Elucidation into the Mechanisms of Cellular Internalization of PRINT Particles"; Gratton, S. E. A.; Napier, M. E.; Ropp, P. A.; Tian, S. DeSimone*, J. M. *Pharm. Res.* **2008**, *25*, 2845-2852. (# of citations = 0)
10. "Continuous Co-polymerization of Vinylidene Fluoride with Hexafluoropropylene in Supercritical Carbon Dioxide: High Hexafluoropropylene-Content Amorphous Copolymers"; Ahmed, T.; DeSimone, J. M.; Roberts*, G. *Macromolecules* **2008**, *41*, 3086-3097. (# of citations = 1)
11. "Reductively Labile PRINT Nanoparticles for the Delivery of Doxorubicin to HeLa Cells"; Petros, R. A.; Ropp, P. A.; DeSimone*, J. M.; *J. Am. Chem. Soc.* **2008**, *130*, 5008-5009. (# of citations = 3)
12. L. Du, J. M. DeSimone, G. W. Roberts, in *Green Chemistry and Engineering with Gas Expanded Liquids and Near-Critical Media* (Eds.: K. W. Hutchenson, A. M. Scurto, B. Subramaniam), **2008**. (# of citations = not tracked by S.C.I.)

13. "The Patterning of Sub-500 nm, Inorganic Oxide Structures Using Cross-linked Perfluoropolyethers"; Hampton, M. J.; Williams, S. S.; Zhou, Z.; Nunes, J.; Ko, D. H.; Templeton, J. L.; Samulski, E. T.; DeSimone*, J. M. *Advanced Materials* **2008**, *20*, 2667-2668. (# of citations = 0)
14. "Continuous Co-polymerization of Vinylidene Fluoride with Hexafluoropropylene in Supercritical Carbon Dioxide: Low Hexafluoropropylene-Content Semicrystalline Copolymers"; Ahmed, T.; DeSimone, J. M.; Roberts*, G. *Macromolecules* **2007**, *40*, 9322-9331. (# of citations = 2)
15. "Nanoparticle Drug Delivery Platform"; Napier, M. E.; DeSimone*; J. M. *Polymer Reviews* **2007**, *47*, 321-327. (# of citations = 1)
16. "Etching SiO₂ with HF/pyridine Supercritical Carbon Dioxide Solutions and Resultant Interfacial Electronic Properties"; Li, Y. X.; Yang, D.; Jones III, C. A.; DeSimone, J. M.; Irene, E. A. *J. Vac. Sci. Technol.* **2007**, *25(4)*, 1139-1142. (# of citations = 0)
17. "Alternative Fluoropolymers to the Avoid Challenges Associated With Perfluorooctanoic Acid"; Guo, J.; Resnick, P.; DeSimone*, J. M.; *Ind. Chem. Eng. Res.* **2008**, *47*, 502-508. (# of citations = 0)
18. "Weak Surface Anchoring Energy of 4-Cyano-4'-pentyl-1,1'-biphenyl on Perfluoropolyether Langmuir-Blodgett Films"; Russell-Tanner, J. M.; Takayama, S.; Sugimura, A.; DeSimone, J. M.; Samulski*, E. T. *J. Chem. Phys.* **2007**, *126* (24): Art. No. 244706. (# of citations = 0)
19. "Dynamics of CO₂-Plasticized Electron Transport in Au Nanoparticle Films: Opposing Effects of Tunneling Distance and Local Site Mobility"; Choi, J. P.; Coble, M. M.; Branham, M. R.; DeSimone, J. M.; Murray, R. W. *J. Phys. Chem. C* **2007**, *111*, 3778-3785. (# of citations = 11)
20. "Nanofabricated Particles for Engineered Drug Therapies: A Preliminary Biodistribution Study of PRINTTM Nanoparticles"; Gratton, S. E. A.; Pohlhaus, P. D.; Lee, J.; Guo, J.; Cho, M. J.; DeSimone*, J. M. *J. Controlled Release* **2007**, *121*, 10-18. (# of citations = 15)
21. "Supramolecular Nano-mimetics: Replication of Micelles, Viruses and Other Naturally-Occurring Nanoscale Objects"; Maynor, B. W.; LaRue, I.; Hu, Z.; Rolland, J. P.; Pandya, A.; Fu, Q.; Liu, J.; Spontak, R. J.; Sheiko, S. S.; Samulski, R. J.; Samulski, E. T.; DeSimone*, J.M. *Small* **2007** *3*(5), 845-849. (# of citations = 7)
22. "Ultrathin Film Deposition by Liquid CO₂ Free Meniscus Coating-Uniformity and Morphology"; Kim, J.; Novick, B. J.; DeSimone, J. M.; Carbonell, R. G. *Langmuir* **2006**, *22*, 642-657. (# of citations = 5)
23. "Use of Substituted Bis(acetylaceton)ethylenediimine and Dialkyldithiocarbamate Ligands for Copper Chelation in Supercritical Carbon Dioxide"; Dunbar, A.; Omiatek, D. M.; Thai, S. D.; Kendrex, C. E.; Grotzinger, L. L.; Boyko, W. J.; Weinstein, R. D.; Skaf, D. W.; Bessel*, C. A.; Denison, G.; DeSimone, J. M. *Ind. Eng. Chem. Res.* **2006**, *45*, 8779-8787. (# of citations = 3)
24. "Amorphous Linear Aliphatic Polyesters for the Facile Preparation of Tunable Rapidly Degrading Elastomeric Devices and Delivery Vectors"; Olson, D. A.; Gratton, S. E. A.; DeSimone, J. M.; Sheares*, V. V. *J. Am. Chem. Soc.* **2006**, *128*, 13625-13633. (# of citations = 9)
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26. "Molded, High Surface Area Polymer Electrolyte Membranes from Cured Liquid Precursors"; Zhou, Z.; Dominey, R. N.; Rolland, J. P.; Maynor, B. W.; Pandya, A. A.; DeSimone*, J. M. *J. Am. Chem. Soc.* **2006**, *128*, 12963-12972. (# of

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27. "Imparting Size, Shape, and Composition Control of Materials for Nanomedicine"; Eulis, L.; DuPont, J.; DeSimone*, J. M. *Chem. Soc. Rev.* **2006**, *35*, 1095-1104. (# of citations = not tracked by S.C.I.)
28. "Particle Formation in Precipitation Polymerization: Continuous Precipitation Polymerization of Acrylic Acid in Supercritical Carbon Dioxide"; Liu, T.; Garner, P.; DeSimone, J. M.; Roberts*, G. W.; Bothun, G. D. *Macromolecules* **2006**, *39*(19), 6489-6494. (# of citations = 4)
29. "Cross-linking Polymerization of Acrylic Acid in Supercritical Carbon Dioxide"; Liu, T.; DeSimone, J. M.; Roberts*, G. W.; *Polymer* **2006**, *47*, 4276-4281. (# of citations = 5)
30. "Kinetics of the Precipitation Polymerization of Acrylic Acid in Supercritical Carbon Dioxide: The locus of Polymerization"; Liu, T.; DeSimone, J. M.; Roberts*, G. W. *Chem. Engin. Sci.* **2006**, *61*, 3129-3139. (# of citations = 7)
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35. "Copolymerization of Vinylidene Fluoride with Hexafluoropropylene in Supercritical Carbon Dioxide"; Ahmed, T.; Roberts*, G.; DeSimone, J. M. *Macromolecules* **2006**, *39*, 15-18. (# of citations = 7)
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