

PEER-REVIEWED PUBLICATIONS AND BOOKS: (h index 50; >8,300 citations)

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PRESENTATIONS AND NON-REFEREED PUBLICATIONS:

1. "Chain Dimensions and Rheological Studies of Model Polyolefins and Polydienes," J. W. Mays, P. Hattam, and L. J. Fetters, presented at the Chicago National ACS Meeting, September 1985. See also *Polymer Preprints*, 26(2), 24 (1985).
2. "Synthesis of Polyolefins with Controlled Branching by Anionic Polymerization," J. W. Mays, invited presentation at Himont Research Center (Wilmington, Delaware) March 1986.
3. "Influence of Excluded Volume on Polymer-Polymer Miscibility," A. G. Bringuier, J. W. Gilmer and J. W. Mays, presented at the New York Meeting of the American Physical Society, March 1987. See also *Bull. Am. Phys. Soc.*, 32, 666 (1987).
4. "Synthesis and Evaluation of Atactic Polypropylene Standards for High Temperature Size Exclusion Chromatography," J. W. Mays, S. S. Huang, M. J. Washall, and H. G. Barth, presented at International GPC Symposium '87, Chicago, May 1987.

5. "Solution Properties and Chain Stiffness of Cyanoethylhydroxypropyl Cellulose," J. W. Mays, presented at the New Orleans National ACS Meeting, September 1987. See also *Polymer Preprints*, 28(2), 413 (1987).
6. "The Influence of Excluded Volume on Polymer-Polymer Miscibility," A. G. Bringuier, J. W. Gilmer, and J. W. Mays, presented at the New Orleans National ACS Meeting, September 1987. See also *Polymer Preprints*, 28(2), 118 (1987).
7. "Properties of Poly(a-methylstyrene) in Toluene: A Comparison of Experimental Results with Predictions of Renormalization Group Theory," J. S. Lindner, W. W. Wilson, and J. W. Mays, presented at the First International Symposium on Polymer Analysis and Characterization (ISPAC) Toronto, June 1988.
8. "Partial Draining in Polymer Solutions," J. S. Lindner, W. W. Wilson, and J. W. Mays, presented at ISPAC Meeting, Toronto, June 1988.
9. "Solution Properties and Chain Stiffness of Cyanoethylhydroxypropylcellulose," J. W. Mays, invited presentation at the Symposium on Cellulose Derivatives: New Preparations, Properties and Processes, The Third Chemical Congress of North America, Toronto, June 1988.
10. "Correlations Between Lyotropic Liquid Crystal Formation and Chain Stiffness of Cellulosics," J. W. Mays, presented at Mississippi State University, October 12, 1988.
11. "Synthesis and Properties of Model Polyolefins," J.W. Mays, presented at Goodyear Tire and Rubber Co., Research Division, Akron, Ohio, November 4, 1988.
12. "Characteristic Ratios of Model Polydienes and Polyolefins," J. W. Mays, presented at Enichem Americas, Research Center, Monmouth Junction, New Jersey, December 7, 1988.
13. "Dilute Solution Properties of Poly(a-methylstyrene) in Cyclohexane," J. W. Mays, N. Hadjichristidis, W. W. Wilson, and J. S. Lindner, poster presentation at Second International Symposium on Polymer Analysis and Characterization, April 7-9, 1989, Austin, Texas.
14. "Chain Dimension and Rheological Studies of Model Polydienes and Polyolefins," J. W. Mays, presented at DuPont Experimental Station, Wilmington, Delaware, July 25, 1989.
15. "Chain Dimension and Rheological Studies of Model Polydienes and Polyolefins," J. W. Mays, presented at Virginia Polytechnic Institute and State University, Blacksburg, Virginia, November 15, 1989.
16. "Chain Dimension and Rheological Studies of Model Polydienes and Polyolefins," J. W. Mays, presented at University of Southern Mississippi, Hattiesburg, Mississippi, March 5, 1990.
17. "Miscibility Behavior of Homopolymer with Block Copolymer," H. S. Lee, S. S. Patel, X. Quan, and J. W. Mays, presented at the Anaheim meeting of the American Physical Society, March 1990. See also *Bull. Am. Phys. Soc.*, 35, 746 (1990).

18. "Effects of Chain Flexibility on Entanglement Concentrations in Polymer Melts," J. W. Mays, presented at University of Massachusetts, Amherst, Massachusetts, March 23, 1990.
19. "Chain Dimension Studies on Some Model Polymers," J. W. Mays, presented at University of Connecticut, Storrs, Connecticut, May 4, 1990.
20. "Miscibility Behavior of Homopolymer with Block Copolymers," H. S. Lee, S. S. Patel, T. J. Matsuoka, X. Quan, and J. Mays, presented at the 33rd IUPAC International Symposium on Macromolecules, Montreal, Canada, July 9, 1990.
21. "Poly(alkylene phosphates): Synthesis and NMR Studies," G. M. Gray, L.-H. Ho, and J. W. Mays, presented at the 33rd IUPAC International Symposium on Macromolecules, Montreal, Canada, July 11, 1990.
22. "The Second Normal Stress Difference for a Concentrated Solution of Star-Polymers with Very Long Branches," J. J. Magda, J. Mays, C. S. Lee, and K. L. DeVries, 62nd Annual Meeting of the Society of Rheology, Santa Fe, New Mexico, October 22-24, 1990.
23. "Morphological Characterization of Asymmetric Triblock Copolymers," X. Quan, H. S. Lee, S. S. Patel, J. W. Mays, and S. D. Smith, presented at the Cincinnati Meeting of the American Physical Society, March, 1991. See also: *Bull. Am. Phys. Soc.*, 36(3), 434 (1991).
24. "Hydrodynamic and Thermodynamic Properties of Poly(α -methylstyrene) in Dilute *n*-Butyl Chloride Solution," J. W. Mays, S. Nan, and M. E. Lewis, presented at the National ACS Meeting, Atlanta, April, 1991. See also: *Polymer Preprints*, 32(1), 74 (1991).
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28. "Dilute Solution Properties of Branched Macromolecules," J. W. Mays, invited presentation at the 4th International Symposium on Polymer Analysis and Characterization, Baltimore, May 1991.
29. "Model Branched Polymers and Copolymers by Anionic Polymerization: Relevance to Physical Polymer Science," N. Hadjichristidis and J. W. Mays, invited presentation at the 2nd Mediterranean School on Science and Technology of Advanced Polymer-Based Materials, Capri, Italy, May 1991.

30. "Manipulating Solid-Surface Properties with Polymeric Agents," H. Watanabe, S. S. Patel, J. F. Argillier, E. E. Parsonage, J. W. Mays, N. Dan-Brandon, and M. Tirrell, Mat. Res. Soc. Meeting, Boston, Massachusetts, November 1991.
31. "Chain Dimension Studies on Some Model Polymers," J. W. Mays, presented at Lawrence Livermore National Laboratory, Livermore, California, January 13, 1992.
32. "Synthesis and Characterization of Model Branched Polymers," J.W. Mays, presented at DuPont Experimental Station, Wilmington, Delaware, January 20, 1992.
33. "Chain Dimension Studies on Some Model Polymers," J. W. Mays, presented to the Department of Chemistry, Auburn University, April 2, 1992.
34. "Polymer Research at UAB," J. W. Mays, presented to the Department of Chemistry, University of Montevallo, Montevallo, AL, April 8, 1992.
35. "Poly(alkylene phosphates): Synthesis and Applications," Prakash Bharara, J. B. Beal, G. M. Gray, J. W. Mays, and K. E. Branham, presented at the Sixty-Ninth Annual Meeting of the Alabama Academy of Science, Tuscaloosa, AL, April 16, 1992.
36. "Metal-Containing Polymers for Laser Fusion," H. Maheswaran, K. E. Branham, G. S. Vigee, S. Nan, J. W. Mays, and G. M. Gray, presented at the Sixty-Ninth Annual Meeting of the Alabama Academy of Science, Tuscaloosa, AL, April 17, 1992.
37. "Poly(4-Cyclohexylbutyl-1-methacrylate): Synthesis and Solution Properties," Jian Zhou and J. W. Mays, presented at the Sixty-ninth Annual Meeting of the Alabama Academy of Science, Tuscaloosa, AL, April 16, 1992.
38. "Poly(4-Phenylbutyl-1-methacrylate): Synthesis and Solution Properties," Yuan-Ju Chen, Shouyan Nan, and J. W. Mays, presented at the Sixty-ninth Annual Meeting of the Alabama Academy of Science, Tuscaloosa, AL, April 16, 1992.
39. "Second Virial Coefficient of a Flexible Polymer/Poor Solvent System," Jianbo Li, Yunan Wan, and J. W. Mays, presented at the Sixty-ninth Annual Meeting of the Alabama Academy of Science, Tuscaloosa, AL, April 16, 1992.
40. "Force Measurements Between Diblock Copolymers Adsorbed on Mica in Aqueous Solutions," M. Tirrell, G.-Z. Mao, C. Amiel, P. Guenoun, and J. Mays, invited presentation at the U.S. - France Workshop on High Performance Polymers, Talloires, France, May 31 - June 5, 1992.
41. "Routes to High Performance Polymers Through Precise Control of Molecular Architecture," J. W. Mays, invited presentation at the U.S. - France Workshop on High Performance Polymers, Talloires, France, May 31 - June 5, 1992.
42. "Miscibility Studies in Blends of Poly(propylene) and Poly(1-butene)," H. Marand, P. M. Cham, T. H. Lee, and J. Mays, presented at the National Meeting of the American Chemical Society in Washington, August, 1992. See also: *Proc. Div. Polym. Mater. Sci. Eng.*, 67, 199 (1992).

43. "Second Virial Coefficient of a Flexible Polymer/Poor Solvent System", J. Li, and J. W. Mays, invited poster at the Gordon Research Conference on Polymers, Ventura, CA, January 4-8, 1993.
44. "Some Recent Advances in the Synthesis of Well-Defined Polymers and Copolymers by Controlled Anionic Polymerization", J. W. Mays, presented at the University of Alabama at Huntsville, Huntsville, AL, January 29, 1993.
45. "Some Recent Advances in the Synthesis of Well-Defined Polymers and Copolymers by Controlled Anionic Polymerization", J. W. Mays, presented at EniChem America Research Center, Monmouth Junction, NJ, February 1, 1993.
46. "Well-Defined Amphiphilic Copolymers by Controlled Anionic Polymerization", J. W. Mays, presented at the University of Akron, Maurice Morton Symposium, Akron, OH, February 6, 1993.
47. "Flow-Induced Ordering of Microphase Separated Styrene-Butadiene Triblock Copolymers", F. A. Morrison, C. C. Han, and J. W. Mays, presented at the March 22-26, 1993 Meeting of the American Physical Society, Seattle, Washington. See also: *Bull. Am. Phys. Soc.*, 38(1), 486 (1993).
48. "Bimodal Polymer Brushes", M. Tirrell, S. Dhoot, H. Watanabe, and J. Mays, presented at the March 22-26, 1993 meeting of the American Physical Society in Seattle, Washington. See also: *Bull. Am. Phys. Soc.*, 38(1), 658 (1993).
49. "Short time Interdiffusion at Polymer Interfaces: Reptation?", G. Agrawal, R. P. Wool, W. D. Dozier, G. P. Felcher, T. P. Russell, and J. W. Mays, presented at the March 22-26, 1993 meeting of the American Physical Society in Seattle, Washington. See also: *Bull. Am. Phys. Soc.*, 38(1), 659 (1993).
50. "Routes to High Performance Polymers Via Precise Control of Molecular Architecture", J. W. Mays, invited presentation at the Workshop on Synthesis of Macromolecules with Precisely Controlled Structures for New Materials, Massachusetts Institute of Technology, April 3-4, 1993.
51. "Investigation of Cellular Response to the Components of Silicone Gel Sheeting", W. O. Haggard, J. E. Lemons, J. W. Mays, and C. W. Prince, presented at the Society for Biomaterials Annual Meeting, April 28-May 2, 1993, Birmingham, AL.
52. "Synthesis and Properties of Some New Well-Defined Polymers and Copolymers Obtained by Anionic Polymerization", J. W. Mays, invited presentation at East China University of Science and Technology, June 30, 1993, Shanghai, China.
53. "Thermodynamic and Hydrodynamic Properties of Poly(α -methyl styrene) in Cyclohexane Below the Theta Temperature", J. W. Mays, invited presentation at East China University of Science and Technology, June 30, 1993, Shanghai, China.
54. "Synthesis and Properties of Some New Well-Defined Polymers and Copolymers obtained by Anionic Polymerization", J. W. Mays, invited presentation at the University of Science and Technology of China, July 2, 1993, Hefei, China.

55. "Thermodynamic and Hydrodynamic Properties of Poly(α -methyl styrene) in Cyclohexane Below the Theta Temperature", J. W. Mays, invited presentation at the University of Science and Technology of China, July 2, 1993, Hefei, China.
56. "Synthesis and Properties of Some New Well-Defined Polymers and Copolymers Obtained by Anionic Polymerization", J. W. Mays, invited presentation at the Institute for Chemistry, Chinese Academy of Sciences, July 6, 1993, Beijing, China.
57. "Hydrodynamic and Thermodynamic Properties of Polymer Chains in Very Poor Solvents", J. Li, J. W. Mays, J. S. Lindner, W. W. Wilson, and N. Hadjichristidis, invited presentation at the 6th International Symposium on Polymer Analysis and Characterization, July 14, 1993, Crete, Greece.
58. "Characterization of End Functionalized Block Copolymers in Dilute Solutions", S. Pispas, N. Hadjichristidis, and J. W. Mays, presented at the 6th International Symposium on Polymer Analysis and Characterization, July 11-14, 1993, Crete, Greece.
59. "Synthesis and Characterization of Well-Defined Star Poly(methyl methacrylate) Polymers", V. Efstratiadis, G. Tselikas, N. Hadjichristidis, and J. W. Mays, presented at the 6th International Symposium on Polymer Analysis and Characterization, July 11-14, 1993, Crete, Greece.
60. "Homopolymers and Copolymers of 2-Vinylpyridine", J. W. Mays, invited presentation at the University of Athens, July 16, 1993, Athens, Greece.
61. "Bimodal Polymer Brushes", S. Dhoot, H. Watanabe, J. Mays, N. Dan, and M. Tirrell, presented at the 206th ACS National Meeting, August 22-27, 1993, Chicago, IL.
62. "Structure of Welded Symmetric Polymer Interfaces with Reptation", G. Agrawal, R. P. Wool, W. D. Dozier, G. P. Felcher, J. W. Mays, and T. P. Russell, presented at the 206th ACS National Meeting, August 22-27, 1993, Chicago, IL. See also: *Polymer Preprints*, 34(2), 305 (1993).
63. "Time-Dependent Small-Angle Neutron Scattering Behavior in Triblock Copolymers Under Steady Shear", A. I. Nakatani, F. A. Morrison, J. W. Mays, M. Muthukumar, and C. C. Han, presented at the 206th ACS National Meeting, August 22-27, 1993, Chicago, IL. See also: *Polymer Preprints*, 34(2), 630 (1993).
64. "Flow-Induced Effects in a Microphase-Separated Styrene-Butadiene-Styrene Triblock Copolymer", F. A. Morrison, J. W. Mays, A. Nakatani, and C. C. Han, presented at the 206th ACS National Meeting, August 22-27, 1993, Chicago, IL. See also: *Polymer Preprints*, 34(2), 678 (1993).
65. "Ti-containing Polymers for Use in Laser Fusion Experiments", G. M. Gray, K. E. Branham, Y.-J. Chen, G. S. Vigee, J. W. Mays, R. C. Cook, R. D. Sanner, and G. Overturf, presented at the Gordon Research Conference on Inorganic Chemistry, July 1993, Newport, R.I.
66. "Some Recent Advances in the Synthesis of Well-Defined Polymers and Copolymers by Controlled Anionic Polymerization", J. W. Mays, presented to the Department of Chemistry, University of Alabama, Tuscaloosa, AL, November 11, 1993.

67. "Second Virial Coefficients and Radii of Gyration for Poly (a-methylstyrene) in Cyclohexane Below the Theta Temperature", J. Li and J. W. Mays, invited presentation at the Stockmayer Symposium, ACS National Meeting, San Diego, CA, March 13-17, 1994. See also: *Polymer Preprints*, 35(1), 130 (1994).
68. "Dilute Solution Properties, Chain Stiffness, and Liquid Crystalline Properties of Cellulose Propionate", W. Casay, A. George, N. Hadjichristidis, J. S. Lindner, J. W. Mays, D. G. Peiffer, and W. W. Wilson, invited presentation at the Anselm Payen Award Symposium honoring Professor Derek Gray, ACS National Meeting, San Diego, CA, March 13-17, 1994.
69. "Copolymers Adsorbed on Mica in Aqueous Solutions", J. F. Argillier, M. Tirrell, and J. W. Mays, presented at the ACS National Meeting, San Diego, CA, March 13-17, 1994. See also: *Polymer Preprints*, 35(1), 163 (1994).
70. "Shear-Excited Morphological States in a Triblock Copolymer", C. L. Jackson, M. Muthukumar, K. A. Barnes, F. A. Morrison, J. W. Mays, A. I. Nakatani, and C. C. Han, presented at the ACS National Meeting, San Diego, CA, March 13-17, 1994. See also: *Polymer Preprints*, 35(1), 624 (1994).
71. "A Quenching Study of Flow-Induced Ordering in a Microphase-Separated Styrene-Butadiene Triblock Copolymer", F. A. Morrison, K. Barnes, J. Barnes, C. Jackson, and J. W. Mays, presented at the American Physical Society Meeting, Pittsburgh, PA, March 21-25, 1994.
72. "Evidence of Reptation at Interdiffusing Polymer Interfaces", G. Agrawal, R. P. Wool, W. D. Dozier, G. P. Felcher, T. P. Russell, and J. W. Mays, presented at the March 21-25, 1994 meeting of the American Physical Society in Pittsburgh, PA. See also: *Bull. Am. Phys. Soc.*, 39(1), 104 (1994).
73. "Microphase Separation Morphologies in Semiflexible/Flexible Diblock Copolymers", D. J. Pochan, S. P. Gido, J. Zhou and J. W. Mays, presented at the March 21-25, 1994 meeting of the American Physical Society in Pittsburgh, PA. See also: *Bull. Am. Phys. Soc.*, 39(1), 562 (1994).
74. "Synthesis and Characterization of Titanium-Containing Polymers for Use in Laser Fusion Experiments at Lawrence Livermore National Laboratory", K. Branham, G. Gray, J. Mays, R. Cook, G. Overturf, and R. Sanner, presented at Alabama Academy of Science Meeting, Troy, AL, March 23-26, 1994.
75. "Synthesis and Morphology of Flexible/Semi-Rigid Block Copolymers", J. Zhou and J. W. Mays, presented at Alabama Materials Research Society Meeting, Tuscaloosa, AL, April 12, 1994.
76. "What's New in Anionic Polymerization", J. W. Mays, presented to the Department of Chemical Engineering and Materials Science, University of Minnesota, Minneapolis, MN, April 15, 1994.
77. "Some Unsolved Problems in Polymer Solutions", J. W. Mays, presented to the Department of Chemistry, University of Minnesota, Minneapolis, MN, April 22, 1994.

78. "Synthesis and Properties of Some New Model Block and Graft Copolymers", J. W. Mays, invited presentation at the National Institute of Standards and Technology, Gaithersberg, MD, June 7, 1994.
79. "The Micellization Features of Diblock and Starblock Copolymers in Selective Solvents", Z. Xu, L. Bu, T. Huang, and J. W. Mays, presented at the 35th IUPAC Symposium on Macromolecules, Akron, OH, July 11-15, 1994.
80. "Proof of Reptation", G. Agrawal, R. P. Wool, W. D. Dozier, G. P. Felcher, T. P. Russell, and J. Mays, presented at the 35th IUPAC Symposium on Macromolecules, Akron, OH, July 11-15, 1994.
81. "Aqueous Micellar Solutions of Hydrophobically Modified Polyelectrolytes", J. W. Mays, P. Guenoun, H. T. Davis, and M. Tirrell, invited poster at the Polymer Physics Gordon Conference, Newport, Rhode Island, July 31 - August 5, 1994.
82. "Adsorption of Water Soluble Diblock Copolymer on Mica from Aqueous Solution", M. Sikka, C. Amiel, J. Schneider, M. Tirrell, and J. Mays, invited poster at the Polymer Physics Gordon Conference, Newport, Rhode Island, June 30 - August 5, 1994.
83. "Preparation and Functionalization of Polyphosphonates", P. C. Bharara, J. B. Beal, J. Rong, K. E. Branham, J. W. Mays, and G. M. Gray, presented at the Southeast Regional ACS Meeting, Birmingham, October 16-19, 1994.
84. " $\text{Cr}(\text{CO})_3$ - Substituted Polystyrene as a Third Order NLO Material", D. C. Gale, C. M. Lawson, K. E. Branham, J. W. Mays, and G. M. Gray, presented at the Southeast Regional ACS Meeting, Birmingham, October 16-19, 1994.
85. "Synthesis and Characterization of Titanium - Containing Copolymers for Use in Laser Fusion Experiments", K. E. Branham, G. M. Gray, J. W. Mays, R. Cook, G. Overturf, and R. Sonner, presented at the Southeast Regional ACS Meeting, Birmingham, October 16-19, 1994.
86. "Synthesis and Morphological Study of Flexible/Semi-Rigid Diblock Copolymer (Polyisoprene - Poly(t-butyl methacrylate))", J. Zhou, J. W. Mays, S. P. Gido, and D. Pochan, presented at the Southeast Regional ACS Meeting, Birmingham, October 16-19, 1994.
87. "The Effect of Surface Curvature on Polyelectrolyte Diblock Copolymer Adsorption on Silica", R. Hariharan, J. Mays, J. Zhou, and W. B. Russel, presented at AICHE Conference, San Francisco, CA, November 1994.
88. "Association Behavior of End Functionalized Diblock Copolymers of Styrene and Isoprene in n-Decane", S. Allorio, S. Pispas, N. Hadjichristidis, and J. Mays, invited poster presentation at the Gordon Research Conference on Polymers, Ventura, CA, January 8-13, 1995.
89. "Microphase Separated Morphologies in Conformationally Asymmetric Diblock Copolymers", D. J. Pochan, S. P. Gido, J. Zhou, and J. Mays, invited poster presentation at the Gordon Research Conference on Polymers, Ventura, CA, January 8-13, 1995.

90. "Some Recent Advances in Anionic Polymerization", J. W. Mays, presented at Georgia Institute of Technology, School of Chemistry and Biochemistry, Atlanta, GA, March 1, 1995.
91. "Effect of Deuteration on Polymer Chain Dimensions", Z. Xu, Y. Wan, T. Huang, S. Pispas, and J. W. Mays, presented at the Second China-Korea Polymer Symposium, Seoul, South Korea, May 10-17, 1995.
92. "Characterization of Long-Chain Branching by Solution Methods", J. W. Mays, invited presentation at the Fourth Mediterranean School and Symposium on Science and Technology of Advanced Polymer-Based Materials, Fodele-Crete (Greece), June 5-9, 1995.
93. "Conformational and Branching Asymmetry in Block Copolymers", J. W. Mays, invited presentation at the Institute of Electronic Structure and Laser (IESL), Research Center of Crete, Heraklion - Crete (Greece), June 9, 1995.
94. "Block Copolymers of Unusual Architecture", J. W. Mays, invited presentation at CEA - Saclay, Saclay, France, June 14, 1995.
95. "Graft Copolymers of Polystyrene and Polymethacrylic Acid or Poly(2-vinyl-pyridine): Synthesis and Characterization", M. Pitsikalis and J. W. Mays, presented at the 47th Southeast/51st Southwest ACS Joint Regional Meeting, Memphis, TN, November 29 - December 1, 1995.
96. "Solution and Solid State Properties of Linear Block Copolymers with Zwitterionic End Groups", S. Pispas, N. Hadjichristidis, J. W. Mays, G. Floudas, and G. Fytas, presented at the 47th Southeast/51st Southwest ACS Joint Regional Meeting, Memphis, TN, November 29 - December 1, 1995.
97. "Synthesis and Characterization of Model Graft Copolymers", S. Pispas, J. W. Mays, D. J. Pochan and S. P. Gido, presented at the 47th Southeast/51st Southwest ACS Joint Regional Meeting, Memphis, TN, November 29 - December 1, 1995.
98. "Association Behavior of Three-Arm-Star Polybutadienes with Different Numbers of Functional Endgroups", M. Pitsikalis, N. Hadjichristidis, and J. W. Mays, presented at the 47th Southeast/51st Southwest ACS Joint Regional Meeting, Memphis, TN, November 29 - December 1, 1995.
99. Morphological Study on Flexible/Semi-Rigid Polyisoprene/poly(t-butyl methacrylate) Diblock Copolymer", J. Zhou, J. W. Mays, D. J. Pochan, and S. P. Gido, presented at the 47th Southeast/51st Southwest ACS Joint Regional Meeting, Memphis, TN, November 29 - December 1, 1995.
100. "Characterization of Stabilized Dispersion of Core-Shell Structure of Polybutyl methacrylate on Silica Spheres", L. Bu, Z. Xu, X. Mo, and J. W. Mays, presented at the 47th Southeast/51st Southwest ACS Joint Regional Meeting, Memphis, TN, November 29 - December 1, 1995.
101. "A Study on Chain Flexibility of Semi-Rigid Poly(tert-butylmethacrylate)", J. Zhou, Y. Wan, and J. W. Mays, presented at the Alabama Academy of Science Meeting, Tuskegee, AL, March 6-9, 1996.

102. "Graft Copolymers of Styrene and Methacrylic Acid or Vinyl Pyridine, Synthesis and Characterization", M. Pitsikalis and J. W. Mays, presented at the Alabama Academy of Science Meeting, Tuskegee, AL, March 6-9, 1996.
103. "Synthesis and Characterization of a Stabilized Dispersion of Polybutylmethacrylate Grafted onto Silica Spheres", L. Bu, J. W. Mays, J. Yang, X. Mo, and Z. Xu, presented at the Alabama Academy of Science Meeting, Tuskegee, AL, March 6-9, 1996.
104. "Micelles Formed by a Model Ionic Graft Copolymers", C. L. Gettinger, C. L. Jackson, C. C. Han, M. Pitsikalis, and J. W. Mays, presented at the 211th National ACS Meeting, New Orleans, March 24-28, 1996 (see also *Polymer Preprints*, 37(1), 406 (1996)).
105. "Synthesis and Morphology of Model Poly(isoprene-graft-styrenes)", S. Gido, N. Hadjichristidis, C. Lee, J. W. Mays, S. Pispas, M. Pitsikalis, and D. Pochan, presented at the 9th International Symposium on Polymer Analysis and Characterization, Oxford, England, July 1-3, 1996.
106. "Block Copolymer Films on Random Copolymer Brushes", P. Mansky, T. Russell, S. Satija, and J. W. Mays, invited poster presented at the Gordon Research Conference on Polymer Physics, Newport, Rhode Island, July 14-18, 1996.
107. "Test of the Constitutive Hypothesis of Melt Fracture: Shear Behavior of Polybutadienes and Polyisoprenes", P. R. Manjeshwar, F. A. Morrison, and J. W. Mays, presented at the XIIIth International Congress on Rheology, Quebec City, Canada, August 18-23, 1996.
108. "Synthesis, Morphology, and Properties of Model Graft and Flexible/Semi-Rigid Block Copolymers", J. W. Mays and S. Gido, presented at the United States Army Research Laboratory, Wilmington, DE, August 20, 1996.
109. "Calculation of Branching Distributions from SEC-LS-Viscometry Measurements of the Dilute Solution Properties of Randomly Branched Poly(methylmethacrylate)", C. Jackson, Y.-J. Chen, and J. W. Mays, presented at the Waters International GPC Symposium, San Diego, CA, September 8-11, 1996.
110. "Synthesis and Morphology of Model Non-Linear Block Copolymers of H and Pi Shape", Y. Poulos, S. Pispas, N. Hadjichristidis, J. Mays, and S. Gido, invited presentation at the 6th European Polymer Federation Symposium on Polymeric Materials, Aghia Pelaghia, Crete, Greece, October 7-11, 1996.
111. "Self-Diffusion of Linear and Non-Linear Block Copolymers", K. Chrissopoulou, S. H. Anastasiadis, G. Fytas, G. Fleischer, K. Adachi, J. Mays, S. Pispas, M. Pitsikalis, and N. Hadjichristidis, invited presentation at the 6th European Polymer Federation Symposium on Polymeric Materials, Aghia Pelaghia, Crete, Greece, October 7-11, 1996.
112. "Long-Range Order Morphologies of a Lamellar Triblock Copolymer Under Shear", K. A. Barnes, F. A. Morrison, J. D. Barnes, J. W. Mays, C. L. Jackson, and S. Satoor, presented at the AICHE National Conference, November 1996.

113. "Development and Evaluation of a Rubber-Toughened Orthopaedic Bone Cement Formulation", A. D. Puckett, B. Roberts, L. Bu, and J. W. Mays, presented at the meeting on Molecular Engineering of Polymers: Directing Biological Response (sponsored by Polymer Division of ACS), Santa Barbara, CA, November 22-24, 1996.
114. "Effect of Architecture on the Self-Diffusion in Block Copolymer Solutions: I₂S Simple Grafts", G. Fleischer, S. H. Anastasiadis, K. Chrissopoulou, G. Fytas, S. Pispas, M. Pitsikalis, J. Mays, and N. Hadjichristidis, presented at the American Physical Society Meeting, Kansas City, MO, March 17-21, 1997.
115. "Architectural Control of Graft Copolymer Morphology", S. P. Gido, C. Lee D. J. Pochan, J. W. Mays, and N. Hadjichristidis, presented at the Spring 1997 Meeting of the Materials Research Society, San Francisco, CA, March 31 - April 3, 1997.
116. "Manipulating Surface Interactions to Control Diblock Copolymers", T. P. Russell, P. Mansky, E. Huang, L. Rockford, Y. Liu, C. Hawker, and J. W. Mays, presented at the Spring 1997 Meeting of the Materials Research Society, San Francisco, CA, March 31 - April 3, 1997.
117. "Effect of Conformational and Architectural Asymmetry on Long Range Order in Microphase Separated Block Copolymers", S. P. Gido, D. Pochan, and J. W. Mays, presented at the Spring 1997 Meeting of the Materials Research Society, San Francisco, CA, March 31 - April 3, 1997.
118. "Synthesis and Properties of Model Graft Copolymers", Jimmy W. Mays, presented at the Department of Polymer Science, University of Southern Mississippi, May 7, 1997.
119. "Synthesis and Properties of Model Graft Copolymers", Jimmy W. Mays, presented at Proctor and Gamble Central R & D Labs, Cincinnati, OH, June 6, 1997.
120. "Synthesis and Properties of Model Graft Copolymers", Jimmy W. Mays, presented at the University of Mississippi, Oxford, MS, September 12, 1997.
121. "Analysis of Radiation Degradation in Kel-F by SEC", G.E. Overturf, J.D. Lemay, J. Mays, L. Bu, and Yunan Wan, presentation at the 21st Aging, Compatibility, and Stockpile Stewardship Conference, presented at Sandia National Laboratories, Albuquerque, NM, October 2, 1997.
122. "Synthesis and Properties of Model Graft Copolymers", Jimmy W. Mays, invited presentation to celebrate the 30th anniversary of the Department of Polymer Science at the University of Akron, Akron, OH, October 17, 1997.
123. "Characterization of Fractionated and Unfractionated Polymer by MALDI/TOF/MS", H. Ji, W.K. Nonidez, and J.W. Mays, invited present at the meeting on Application of MALDI-TOF and ESI-TOF Mass Spectrometry In the Characterization of Synthetic and Biological Polymers, Catania, Italy, October 30-31, 1997.
124. "Characterization of Fractionated and Unfractionated Polymers by MALDI/TOF/MS", H. Ji, W.K. Nonidez, and J.W. Mays, invited presentation at the Department of Chemistry, University of Athens, Athens, Greece, November 4, 1997.

125. "The Chain Flexibility of Poly(oxymethylene)", Zhongde Xu, Chengwei Su, Dun Li, Yi Huang, and J. W. Mays, presented at The International Microsymposium on Polymer Physics, PP '97, Guilin, November 25-29, 1997, Guilin, China.
126. "Hollow Cylinder, Core-Shell Morphology in Blends of Diblock Copolymers and Homopolymers", S.P. Gido, J. David, D. Pochan, J.W. Mays, J. Zhou, K. Hong, and N. Beck Tan, invited presentation at the Twenty First Asilomar Conference on Polymeric Materials, sponsored by U.S. Army, February 22-25, 1998, Pacific Grove, CA.
127. "Controlled Architecture Graft Copolymers by Anionic Polymerization", J.W. Mays, H. Iatrou, Y. Poulos, S. Pispas, M. Pitsikalis, K. Hong, N. Hadjichristidis, S. Gido, D. Pochan, C. Lee, F. Beyer, N. Beck Tan, and S. Trevino, invited presentation at the Twenty First Asilomar Conference on Polymeric Material, sponsored by U.S. Army, February 22-25, 1998, Pacific Grove, CA.
128. "Synthesis and Properties of Model Graft Copolymers", J. W. Mays, H. Iatrou, Y. Poulos, S. Pispas, M. Pitsikalis, K. Hong, N. Hadjichristidis, S. Gido, D. Pochan, C. Lee, F. Beyer, N. Beck Tan presented at Samford University, February 26, 1998, Birmingham, AL.
129. "Controlled Architecture Graft Copolymers by Anionic Polymerization", J.W. Mays, presented at East China University of Science and Technology, March 19, 1998, Shanghai, China.
130. "Understanding the Effect of Long Chain branching on Polymer Properties: Synthesis, Molecular Characterization, and Properties of Novel Branched Polymer Architecture", J.W. Mays, presented at Dow Chemical Company, April 16, 1998, Midland, Michigan.
131. "Temperature Gradient Interaction Chromatography of Polymers", T. Chang, W. Lee, H.C. Lee, J.W. Mays, S. Harville, and D.J. Frater, presented at the Society of Plastics Engineers ANTEC '98 Meeting, April 29, 1998, Atlanta, Georgia; extended abstract published in *Proceedings of the Society of Engineers Technical Papers*, Vol. XLIV, number 2, (1998).
132. "Polydispersity Analysis of Fractionated Synthetic Polymers by MALDI/TOF Mass Spectrometry", H. Ji, W.K. Nonidez, and J.W. Mays, presented at the Society of Plastics Engineers ANTEC '98 Meeting, April 29, 1998, Atlanta, Georgia; extended abstract published in *Proceedings of the Society of Engineers Technical Papers*, Vol. XLIV, number 2 (1998).
133. "A MALDI/TOF/MS and SEC Study of ASTRAMOL Dendrimers having Cyano End Groups", L. Bu, W.K. Nonidez, J.W. Mays, and N. Beck Tan, presented at the 11th International Symposium of Polymer Analysis and Characterization, May 25-27, 1998, Santa Margherita Ligure, Italy.
134. "Recent Developments in the Anionic Synthesis of Model Graft Copolymers", Jimmy W. Mays, Keynote Address at the NATO/ASI Meeting on Ionic Polymerization and Related Processes, August 9 - 21, 1998, London, Ontario, Canada.
135. "Synthesis and Characterization of Poly(cyclohexadiene) Polymers", K. Hong, Y. Nakamura, J.W. Mays, J.L. David, and S.P. Gido, invited poster at the Polymer Physics Gordon Conference, August 9 - 14, 1998, Newport, Rhode Island.

136. "Achieving Precise Control of Branching in Graft Copolymers", J.W. Mays, presented to the Department of Polymer Science and Engineering, University of Massachusetts, Amherst, MA, September 25, 1998.
137. "SEC and MALDI Measurements to Determine the Degradation Mechanisms of Estane in Polymer Bound Explosives", G. E. Overturf, III, J. D. LeMay, B. Russell, W. Nonidez, J. W. Mays, and H. Ji, presented at Waters GPC Symposium, Phoenix, Oct. 4 -7, 1998.
138. "Characterization of KEL-F 800 Degradation Under Irradiation Using DRI/Visc. SEC", G. E. Overturf, III, J. D. LeMay, J. W. Mays, L. Bu, and Y. Wan, presented at Waters GPC Symposium, Phoenix, Oct. 4 - 7, 1998.
139. "Determination of Molecular Weight, Molecular Weight Distribution and Impurities of Astramol Dendrimers via SEC and MALDI/TOF/MS", L. Bu, W. K. Nonidez, J. W. Mays, and N. Beck-Tan, presented at the Southeast Regional Meeting of the American Chemical Society, Research Triangle Park, NC, November 4-7, 1998.
140. "Solution Properties of Semi-Rigid Polycyclohexadiene and Semirigid/Flexible Polycyclohexadiene-Polystyrene Copolymers", K. Hong, Y. Nakamura, and J. W. Mays, presented at the Southeast Regional Meeting of the American Chemical Society, Research Triangle Park, NC, November 4-7, 1998.
141. "MALDI-TOF MS and TGIC Study of a Series of Polystyrenes Only Different in Their End Capping", H. Ji, W. K. Nonidez, J. W. Mays, and T. Chang, presented at the Southeast Regional Meeting of the American Chemical Society, Research Triangle Park, NC, November 4-7, 1998.
142. "Dimensions of Comb-Branched Polystyrene in Solution. Dependence on the Spacer Length Between Branches", Y. Nakamura and J. W. Mays, presented at the Southeast Regional Meeting of the American Chemical Society, Research Triangle Park, NC, November 4-7, 1998.
143. "Simple Tetrafunctional Graft Copolymers, A_2B_2 , of Polystyrene and Polyisoprene: Synthesis, Characterization and Study of Architectural Effect on Morphology" D. Uhrig, J. W. Mays, S. P. Gido, N. Beck-Tan, and F. L. Beyer III, presented at the Southeast Regional Meeting of the American Chemical Society, Research Triangle Park, NC, November 4-7, 1998.
144. "Novel Glass Ionomer-Based Orthopaedic Bone Cements", J. W. Mays, presented at Howmedica Research, Newark, New Jersey, November 16, 1998.
145. "Synthesis of Novel Graft Copolymer Architectures by Anionic Polymerization", J.W. Mays, presented at the University of Tennessee, Department of Chemistry, Knoxville, November 19, 1998.
146. "Effect of Deuteration on Polymer Chain Dimensions: The Dilute Solution Viscosity Investigation", Z. Xu, Y. Huang, C. Su, D. Li, Y. Wan, S. Pispas, J.W. Mays, and C. Wu, presented at the 2nd East Asian Polymer Conference, Hong Kong, China, January 12-16, 1999.
147. "Synthesis of Macromolecules With Diverse Architectures", J. W. Mays, invited lecture at the Polymers West Gordon Conference, Ventura, CA, January 14, 1999.

148. "Polyelectrolyte Brushes", J. W. Mays, presented at Hewlett-Packard Company, Palo Alto, California, January 15, 1999.
149. "Novel Graft Copolymer Architectures", J. W. Mays, presented at the Department of Chemistry, Southern Illinois University, Carbondale, IL, February 12, 1999.
150. "New Model Graft Copolymers", J. W. Mays, presented at the Department of Chemistry, Louisiana State University, Baton Rouge, LA, March 12, 1999.
151. "SEC and Thermal Analysis Comparison of Various Expandable Polystyrene Beads", L. Bu, Y. Wan, H. E. Littleton, and J. W. Mays, presented at the 76th Annual Meeting of the Alabama Academy of Science, Athens State University, March 26, 1999.
152. "Morphology of Regular Multigraft Copolymers with Tetrafunctional Branch Points", F. L. Beyer, S. P. Gido, H. Iatrou, D. Uhrig, J. W. Mays, and N. Beck Tan, presented at the 1999 Centennial Meeting of the American Physical Society, Atlanta, GA, March 20-26, 1999 (see also: *Bull. Amer. Phys. Soc.*, 44 (1), 534 (1999)).
153. "Controlling the Orientation of Cylindrical Domains in Block Copolymer Films by Balancing Interfacial Interactions", E. Huang, T. P. Russell, C. Hawker, and J. W. Mays, presented at the 1999 Centennial Meeting of the American Physical Society, Atlanta, GA, March 20-26, 1999 (see also: *Bull. Amer. Phys. Soc.*, 44(1), 1451 (1999)).
154. "Structure and Interaction of Polyelectrolyte Brushes", P. Guenoun, F. Muller, M. Delsanti, L. Auvray, Y. J. Chen, J. W. Mays, and M. Tirrell, presented at the 1999 Centennial Meeting of the American Physical Society, Atlanta, GA, March 20-26, 1999 (see also: *Bull. Amer. Phys. Soc.*, 44(1), 1761 (1999)).
155. "New Polymer Architectures by Anionic Polymerization", J. W. Mays, presented to the Department of Polymer Science, Penn State University, State College, PA, April 8, 1999.
156. "Manipulating Block Copolymer Architectural and Conformational Asymmetry", J. W. Mays, invited presentation at the U. S. Army-Sponsored Workshop on Flexible Barrier Materials for the Soldier System, Natick Research Development and Engineering Center, Natick, MA, April 14-15, 1999.
157. "MALDI Analysis of Estane Degradation", G. E. Overturf III, J. D. Lemay, B. Russell, W. Nonidez, J. Mays, H. Ji, and E. M. Kober, presented at the 22nd Aging, Compatibility and Stockpile Stewardship Conference, Oak Ridge, TN, April 27 – 30, 1999.
158. "Improved Orthopaedic Bone Cement Formulations Based Upon Rubber Toughening", A. D. Puckett, B. Roberts, L. Bu, and J. W. Mays, presented at the Southern Biomedical Engineering Conference, Clemson, SC, May 21-23, 1999.
159. "Synthesis of Well-Defined Neutral/Ionic Block Copolymers", J. Yang and J. W. Mays, presented at The Fourth Claude Itzykson Meeting: Theoretical Approaches to Biological and Soft Systems, CEA-Saclay, Saclay, France, June 22-25, 1999.

160. "Experiments on Charged Spherical Micelles in Aqueous Solutions", F. Muller, P. Guenoun, M. Delsanti, Y.-J. Chen, and J. W. Mays, presented at the Fourth Claude Itzykson Meeting: Theoretical Approaches to Biological and Soft Systems, CEA-Saclay, Saclay, France, June 22-25, 1999.
161. "Small Angle Neutron Scattering and X Ray Scattering Methods Applied to Block Copolymers", P. Guenoun, F. Muller, P. Fontaine, M. Delsanti, L. Auvray, Y.-J. Chen, J. Yang, J. W. Mays, M. Tirrell, B. Deme, and P. Lesieur, presented at the 12th International Symposium on Polymer Analysis and Characterization, La Rochelle, France, June 28-30, 1999.
162. "Characterization of Charged Spherical Brushes Using Dynamic Light Scattering", F. Muller, M. Delsanti, J. Yang, J. W. Mays, and P. Guenoun, presented at the 12th International Symposium on Polymer Analysis and Characterization, La Rochelle, France, June 28-30, 1999.
163. "A MALDI-TOF-MS Study of Amphiphilic Block Copolymers Based On Sulfonated Polystyrene", J. Yang, W. K. Nonidez, and J. W. Mays, presented at the 12th International Symposium on Polymer Analysis and Characterization, La Rochelle, France, June 28-30, 1999.
164. "A Fluorescence Study of Micellization of NaPSS/PtBS Amphiphilic Block Copolymers in Aqueous Solution", J. Yang, Y. Wang, R. Advincula, J. W. Mays, and P. Guenoun, presented at the 12th International Symposium on Polymer Analysis and Characterization, La Rochelle, France, June 28-30, 1999.
165. "Dilute Solution Properties of Star-branched Polystyrene in the Good Solvent Benzene and Two Theta Solvents, Cyclohexane and Diethyl Malonate", S.R. Harville, J.W. Mays, presented at New Orleans National ACS Meeting, August 1999. See also *Polymer Preprints*, 40(2), 643 (1999).
166. "Thermal Analysis of Polystyrene Beads for Lost Foam Casting", L. Bu, Y. Wan, H. Littleton, J.W. Mays, presented at New Orleans National ACS Meeting, August 1999. See also *Polymer Preprints*, 40(2), 689 (1999).
167. "Synthesis of Model Graft Copolymers with Regularly Spaced Trifunctional or Tetrafunctional Branch Points", K. Hong, D. Uhrig, H. Iatrou, Y. Poulos, N. Hadjichristidis, J.W. Mays, invited presentation at New Orleans National ACS Meeting, August 1999. See also *Polymer Preprints*, 40(2), 104 (1999).
168. "Block Copolymer Amphiphiles of Different Architectures Investigated Using the Quartz Crystal Microbalance Technique: In Situ Investigation of Adsorption Properties", R.C. Advincula, M-K. Park, A. Baba, F. Kaneko, J. Yang, J. Mays, presented at New Orleans National ACS Meeting, August 1999. See also *Polymer Preprints*, 40(2), 1001 (1999)
169. "A MALDI/ TOF/ MS Study of Homopolymers and Amphiphilic Diblock Copolymers Based on Sulfonated Polystyrene", J. Yang, W.K. Nonidez, J.W. Mays, presented at New Orleans National ACS Meeting, August 1999. See also *Polymer Preprints*, 40(2), 1043 (1999).
170. "Synthesis and Characterization of Poly(1,3-cyclohexadiene)-Polystyrene Block Copolymers", K. Hong, J.W. Mays, W.A. Cristofoli, presented at New Orleans National ACS Meeting, August 1999. See also *Polymer Preprints*, 40(2), 1064 (1999).

171. "Subphase Adsorption of Polyelectrolytes to Block Copolymer Amphiphiles at the Air-Water Interface: In Situ Investigations Using the Quartz Crystal Microbalance Technique and the Langmuir-Blodgett Trough", R.C. Advincula, M-K. Park, J. Yang, J. Mays, presented at New Orleans National ACS Meeting, August 1999. See also *Polymer Preprints*, 40(2), 1084 (1999).
172. "Adsorption of Hydrophobically Modified Polyelectrolytes from Dilute Aqueous Solution at the Solid/ Liquid Interface", R.G. Toomey, P.A. Schorr, M.V. Tirrell, F.S. Bates, Y. Wang, R. Advincula, J.W. Mays, presented at New Orleans National ACS Meeting, August 1999. See also *Polymer Preprints*, 40(2), 1010 (1999).
173. "Charged Stars Formed by Association of Charged-Neutral Block Copolymers", P.M. Guenoun, F. Muller, P. Fontaine, M. Delsanti, L. Auvray, Y. Chen, J. Yang, J.W. Mays, M. Tirrell, B. Demé, P. Lesieur, presented at New Orleans National ACS Meeting, August 1999. See also *Polymer Preprints*, 40(2), 1018 (1999).
174. "Branching in Block Copolymers: Development of Structure-Property Relationships", Jimmy Mays, presented at the Department of Chemical Engineering, University of Alabama, Tuscaloosa, AL, January 20, 2000.
175. "Synthesis and Properties of Model Branched Copolymers and Homopolymers", Jimmy Mays, presented at the Department of Chemistry, University of Chicago, Chicago, IL, February 7, 2000.
176. "1,3-Cyclohexadiene Polymers: New Materials with Great Potential", KunLun Hong and J. W. Mays, presented at the Alabama EPSCoR Meeting, February 28, 2000, Montgomery, AL.
177. "Polyisoprene and Butyl Rubber Based Graft Copolymer Materials", David Uhrig and J. W. Mays, presented at the Alabama EPSCoR Meeting, Montgomery, AL, February 28, 2000.
178. "Surface-Initiated Anionic Polymerization on Silica and Silicate Surfaces: Surface Investigations on Tethered Polymers", Q. Zhou, Y. Nakamura, S. Inaoka, M-K. Park, Y. Wang, X. Fan, J. Mays, and R. Advincula, presented at the Alabama EPSCoR Meeting, Montgomery, AL, February 28, 2000.
179. "Synthesis, Characterization, and Properties of Well-Defined Ionic/Neutral Block Copolymers", Jimmy Mays, J. Yang, Y. Wang, and R. Advincula, presented at the Spring 2000 National Meeting of the American Chemical Society, San Francisco, CA, March 26-30, 2000. See also: *Polymeric Materials Science and Engineering*, 82, 201 (2000).
180. "Surface Initiated Anionic Polymerization on Silica and Silicate Surfaces", Q. Zhou, Y. Nakamura, S. Inaoka, M-K. Park, Y. Wang, J. Mays, and R. Advincula, presented at the Spring 2000 National Meeting of the American Chemical Society, San Francisco, CA, March 26-30, 2000. See also: *Polymeric Materials Science and Engineering*, 82, 290-91 (2000).
181. "A Study of the Side Reactions in Chain End Sulfonated Polystyrene Via Thin Layer Chromatography and MALDI/TOF/MS", H. Ji, W. K. Nonidez, and J. W. Mays, presented at the Spring 2000 National Meeting of the American Chemical Society, San Francisco, CA, March 26-30, 2000. See also: *Polymer Preprints*, 41(1), 665-66 (2000).

182. "Capillary Waves at Interfaces: The Role of Gravity and Electric Fields", T. Kerle, Z. Lin, S. Baker, J. Mays, and T. P. Russell, presented at the NASA Microgravity Materials Science Conference, Huntsville, AL, June 6-8, 2000.
183. "Controlled Synthesis of Nanoparticles Using Block Copolymers: Nanoreactors in Microgravity Conditions", R. Advincula, J. P. Claude, J. Yang, and J. W. Mays, presented at the NASA Microgravity Materials Science Conference, Huntsville, AL, June 6-8, 2000.
184. "MALDI/TOF/MS Study of Astromol Dendrimers Having Cyano End Groups", L. Bu, W. K. Nonidez, and J. W. Mays, presented at the 13th International Symposium on Polymer Analysis and Characterization, Pittsburgh, PA, June 19-21, 2000.
185. "Synthesis and Characterization of 1,3-Cyclohexadiene Polymers", K. Hong and J. W. Mays, presented at the 4th National Graduate Polymer Research Conference, Hattiesburg, MS, June 18-21, 2000.
186. "Synthesis of Poly(isobutene-graft-styrene) Using a Commercially Available Butyl Rubber and Anionic Polymerization Techniques", D. Uhrig and J. W. Mays, presented at the 4th National Graduate Polymer Research Conference, Hattiesburg, MS, June 18-21, 2000.
187. "Modification of Poly(carboxylic acids) by Grafting Vinyl Functionality", W. Wu, D. Xie, J. Mays, A. Puckett, and C. Inman, presented at the 4th National Graduate Polymer Research Conference, Hattiesburg, MS, June 18-21, 2000.
188. "MALDI/TOF/MS and SEC Study of Astromol Dendrimers Having Cyano End Groups", L. Bu, W. K. Nonidez, and J. W. Mays, presented at the 4th National Graduate Polymer Research Conference, Hattiesburg, MS, June 18-21, 2000.
189. "CMC Determination of Hydrophobically Modified Polyelectrolytes in Aqueous Solution: A Fluorescence Probe Quenching Study", J. Yang, Y. Wang, and J. W. Mays, presented at the 4th National Graduate Polymer Research Conference, Hattiesburg, MS, June 18-21, 2000.
190. "Characterization of Hydroxy-Terminated Polybutadienes by MALDI-TOF-MS and Other Techniques", W. K. Nonidez and J. W. Mays, presented to Pratt & Whitney, Space Propulsion Division, San Jose, CA, June 30, 2000.
191. "CMC Determination of Asymmetric Poly(4-tert-butylstyrene)-b-sodium poly(styrene sulfonate) in Aqueous Solution", J. Yang, Y. Wang, W. K. Nonidez, and J. W. Mays, presented at the National Meeting of the American Chemical Society, Washington, DC, August 20-24, 2000.
192. "Synthesis and Characterization of Controlled Architecture Ionic/Neutral Block Copolymers", J. Yang and J. W. Mays, invited presentation at the National Meeting of the American Chemical Society, Washington, DC, August 20-24, 2000. See also: Polymer Preprints, 41(2), 1523-24 (2000).
193. "Anionic Polymerization of 1,3-Cyclohexadiene", K. Hong and J. W. Mays, invited presentation at the Symposium honoring Lewis Fetters as Outstanding Alumnus, University of Akron, Department of Polymer Science, October 13, 2000.

194. "Synthesis, Characterization and Properties of New Branched Polymer Architectures", J. W. Mays, Clemson University, October 16, 2000.
195. "Controlled Polymerization Initiated from Clay Surfaces", Qingye Zhou, J. W. Mays, and R. Advincula, presented at The First Georgia Tech Conference on Nanoscience and Nanotechnology, Atlanta, GA, October 16-18, 2000.
196. "SEC Analysis of Estane 5703: Experimentally Derived Constants for Absolute MW Determinations", G. E. Overturf III, P. Lewis, J. Mays, Y. Wan, and L. Bu, presented at the International GPC Symposium 2000, Las Vegas, NV, October 21-25, 2000.
197. "Surface Initiated Anionic Polymerization on Silicate Surfaces", Qingye Zhou, J. W. Mays, and R. Advincula, presented at the Joint Southeast-Southwest Regional Meeting of the American Chemical Society, New Orleans, LA, December 6-8, 2000. See Also, *PMSE Preprints*, 2000, 82, 291
198. "Formulation of New Hybrid Glass-Ionomer Cements Using New Polymeric Systems and Commercial Glass", M. Chakraborty, D. Xie, and J. W. Mays, presented at the Joint Southeast-Southwest Regional Meeting of the American Chemical Society, New Orleans, LA, December 6-8, 2000.
199. "Anionic Polymerization of 1,3-Cyclohexadiene", K. Hong and J. W. Mays, presented at the Gordon Research Conference on Polymers, Ventura, CA, January 7-11, 2001.
200. "Model Branched Polymers: Synthesis and Structure-Property Relationships", J. W. Mays, presented at The Department of Materials Engineering, University of California at Santa Barbara, January 11, 2001.
201. "Formulation of Hybrid Glass-Ionomer Cements for Biomedical Applications", D. Xie, M. Chakraborty, and J. Mays, presented at the Southern Biomedical Engineering Meeting, Birmingham, AL, February 9-11, 2001.
202. "Synthesis of Poly(carboxylic acids) with Pendant Vinyl Functionality and Mechanical Properties of the Formed Cements", D. Xie, W. Wu, J. Mays, A. Puckett, and C. Inman, presented at the Southern Biomedical Engineering Meeting, Birmingham, AL, February 9-11, 2001.
203. "Polymerization in Ionic Liquids", J. W. Mays, presented for the ARO-sponsored Technology Review on Ionic Liquids, American Chemical Society National Meeting, San Diego, CA, April 1-5, 2001.
204. "Chemistry of Anionic Surface Initiated Polymerization on Surfaces", Q. Zhou, J. Mays, R. Advincula, presented at the American Chemical Society National Meeting, San Diego, CA, April 1-5, 2001.
205. "Nanocomposite Materials by Surface Initiated Polymerization on Silicate, Clay, and Silica Gel Surfaces: Preparation of High Performance Barrier Materials", R.C. Advincula, Q. Zhou, and J. Mays, presented at the American Chemical Society National Meeting, San Diego, CA, April 1-5, 2001.

206. "Anionic Polymerization Initiated from Si-Gel and Clay Nanoparticle Surfaces", Q. Zhou, X. Fan, C. Xia, J. Mays, and R. Advincula, presented at the American Chemical Society National Meeting, San Diego, CA, April 1-5, 2001. See Also, *PMSE Preprints*, 84, 835, 2001.
207. "Surface Initiated Polymerization on Surfaces: Systems and Strategies Towards Polymer Brush Architectures via Anionic Mechanism", R. C. Advincula, Q. Zhou, and J. W. Mays, presented at the American Chemical Society National Meeting, San Diego, CA, April 1-5, 2001. See Also, *PMSE Preprints*, 84, 1, 875, 2001.
208. "In Situ Investigation of Adsorption Properties of Block Copolymer Amphiphiles by Surface Plasmon Spectroscopy", R. C. Advincula, J. Mays, W. Knoll, Y. Wang, J. Yang, C. Holloway, S. Seth, M.-K. Park, and J. H. Youk, presented at the American Chemical Society National Meeting, San Diego, CA, April 1-5, 2001. See Also, *Polymer Preprints*, 42(1), 285, 2001.
209. "Free Radical Polymerization and Copolymerization in Room Temperature Ionic Liquids", L. Bu, M. Li, H. Zhang, K. Hong, and J. W. Mays, presented at the American Chemical Society National Meeting, San Diego, CA, April 1-5, 2001.
210. "Synthesis of Multistyrenic Aromatic Compounds", W. A. Cristofoli, D. Uhrig, and J. W. Mays, presented at the American Chemical Society National Meeting, San Diego, CA, April 1-5, 2001.
211. "Anionic Polymerization of Styrene and 1,3-Cyclohexadiene", K. Hong and J. W. Mays, presented at the American Chemical Society National Meeting, San Diego, CA, April 1-5, 2001.
212. "Measuring In Situ the Adsorption of Block Copolymer Amphiphiles and Polyelectrolytes at Interfaces: A Comparison of Evanescent, Ellipsometric, and Acoustic Techniques", R. C. Advincula, J. W. Mays, W. Knoll, Y. Wang, J. H. Houk, A. Baba, F. Kaneko, M.-K. Park, and J. Yang, presented at the American Chemical Society National Meeting, San Diego, CA, April 1-5, 2001. See Also, *Polymer Preprints*, 42, 1, 281, 2000.
213. "Alphabet Soup with Polymers", J. W. Mays, award lecture for the 2001 Caroline P. and Charles W. Ireland Award for Scholarly Distinction, May 15, 2001, The Club, Birmingham, AL.
214. "Green Polymerization Chemistry: Free Radical Polymerization in Room Temperature Ionic Liquids", J. W. Mays, presentation at the 2001 Annual Chemistry Department Student Awards Reception, May 18, 2001, Birmingham, AL.
215. "New Functional Nanostructured Materials Through Anionic Polymerization", J. W. Mays, Presented to the Department of Chemistry, University of Tennessee, Knoxville, TN, May 24, 2001.
216. "New Functional Nanostructured Materials Through Anionic Polymerization", J. W. Mays, presented at Oak Ridge National Laboratory, May 25, 2001, Oak Ridge, TN.
217. "Controlled Architecture Poly(cyclohexadiene) Polymers and Copolymers", J. W. Mays, presented at the Department of Chemistry, University of Athens, Athens, Greece, June 13, 2001.

218. “New Functional Nanostructured Materials Through Anionic Polymerization”, J. W. Mays, presented at CEA – Saclay, Saclay, France, June 20, 2001
219. “Nanocomposite Materials Prepared by Surface Initiated Anionic polymerization initiated from Si-gel and clay nanoparticle surfaces: Homopolymers and Copolymers”, Q. Zhou, X. Fan, S. Wang, J. Mays, G. Sakkeliariou, S. Hadjichristides, R. Advincula, presented at 222nd Annual Meeting of American Chem. Soc. Chicago, IL, Aug. 26-30, 2001. See Also, *Polymer Preprint*, 42, 59, 2001.
220. “Controlled Preparation of Gold Nanoparticles using Star Block Copolymers”, J. Youk, R. Advincula, J. Locklin, M-K. Park, J. Yang, J. Mays, presented at 222nd Annual Meeting of American Chem. Soc. Chicago, IL, Aug. 26-30, 2001. See Also, *Polymer Preprints*, 42 (2), 358, 2001.
221. “Synthesis and Properties of Linear and Branched Polymers and Copolymers Based on 1,3 Cyclohexadine”, J. Mays and Kunlun Hong, presented at the IUPAC Symposium on Ionic Polymerization and Related Processes, Heraklion, Crete, Oct. 22-26, 2001.
222. “Surface Initiated Anionic Polymerization: Homopolymers and Block Copolymers”, G. Sakellariou, S. Pispas, N. Hadjichristidis, R. Advincula, Q. Zhou, and J.W. Mays, presented at the IUPAC Symposium on Ionic Polymerization and Related Processes, Heraklion, Crete, Oct. 22-26, 2001.
223. “Free Radical Polymerization in Room Temperature Ionic Liquids”, K. Hong, H. Zhang, and J.W. Mays, presented at the IUPAC Symposium on Ionic Polymerization and Related Processes, Heraklion, Crete, Oct. 22-26, 2001.
224. “Synthesis of Regular Multigraft Poly(Isoprene-g-Styrene) with Hexafunctional Branch Points, “Barbwires”, D. Uhrig, and J.W. Mays, presented at the IUPAC Symposium on Ionic Polymerization and Related Processes, Heraklion, Crete, Oct. 22-26, 2001.
225. “Synthesis of Model Block Copolymers”, J. W. Mays, Army Workshop on Perm-Selective Membranes, Aberdeen, MD, November 14-15, 2001.
226. “Anionic Polymerization: Squeezing Something New Out of an Old Technique”, J. W. Mays, presented at the Department of Polymer Science and Engineering, Univ. of Massachusetts, Amherst, MA, December 14, 2001.
227. “Nanostructured Soft Materials through Block Copolymer Self-Assembly”, J.W. Mays, presented at Battelle Technical Council Meeting Georgia Institute of Technology, Atlanta GA, March 4-6, 2002.
227. “A Block Copolymer Approach to Novel Nanotubes”, K. Hong, J.Zhu, S. Gido, T. Russell and J.W. Mays, presented at Battelle Technical Council Meeting Georgia Institute of Technology, Atlanta GA, March 4-6, 2002.
228. “Free Radical Polymerization in Room Temperature Ionic Liquids”, H. Zhang, K. Hong, and J. W. Mays, presented at the Robert M. Hearin Support Foundation Symposium honoring Roger Porter, April 4-5, 2002, University of Southern Mississippi, Hattiesburg, MS.

229. "Long Chain Branching in Polymers and Copolymers", J. W. Mays, presented at the Department of Materials Science and Engineering, University of Tennessee, Knoxville, TN, April 11, 2002.
230. "The Utility of Model Polymers in Understanding Structure-Property Relationships for Complex Polymers", J. W. Mays, presented at the International Symposium on Polymer Analysis and Characterization, Twente University, The Netherlands, June 17-19, 2002.
231. "Synthesis and Properties of Ionic/Neutral Block Copolymers of Controlled Architectures", J. C. Yang and J. W. Mays, presented at the International Symposium on Polymer Analysis and Characterization, Twente University, The Netherlands, June 17-19, 2002.
232. "Controlled Synthesis of Nanoparticles Using Block Copolymers: Nanoreactors in Microgravity Conditions", R. C. Advincula, J. P. Claude, and J. W. Mays, presented at the 2002 NASA Microgravity Materials Science Conference, Huntsville, AL, June 25-26, 2002.
233. "Surface and Interfacial Structures Induced by Electrohydrodynamic Instabilities", T. P. Russell, Z. Lin, T. Kerle, D. A. Hoagland, E. Shaffer, U. Steiner, and J. W. Mays, presented at the 2002 NASA Microgravity Materials Science Conference, Huntsville, AL, June 25-26, 2002.
234. "New Branched Polymer Architectures and New Monomers in Anionic Polymerization", J. W. Mays, presented at Bridgestone/Firestone Research Center, Akron, OH, July 9, 2002.
235. "Polymerization and Copolymerization in Room Temperature Ionic Liquids", J. W. Mays, K. Hong, and H. Zhang, invited presentation at the IUPAC-sponsored International Conference on Polymer Synthesis, Warwick University, England July 29 – August 1, 2002.
236. "Solution Properties of 1,3-Cyclohexadiene Polymers", K. Hong and J. W. Mays, presented at the National American Chemical Society Meeting, Boston, MA, August 18 – 22, 2002. See also Polymer Preprints, 43(2), 1011-1012 (2002).
237. "Controlled Preparation of Gold Nanopolymers Using Well-Defined Star-Block Copolymers and Polyelectrolyte Complexes", R. Advincula, J.H. Youk, J. Locklin, M.K. Park, J. C. Yang, and J. Mays, presented at the National American Chemical Society Meeting, Boston, MA, August 18-22, 2002.
238. "Synthesis of CoS Nanoparticles in Block and Star-Block Copolymer Micelles", A. Narayanaswamy, J. P. Claude, J. C. Yang, and J. W. Mays, presented at the National American Chemical Society Meeting, Boston, MA, August 18-22, 2002.
239. "Ionic Liquids as Environmentally Benign Solvents for Synthesis of PMMA in [bmim][PF6]: Kinetic, Thermal, and Mechanical Analysis", M.B. Benton, J. D. Holbrey, R. D. Rogers, J. W. Mays, and C.S. Brazel, presented at the 2002 Annual Meeting of AIChE, Indianapolis, IN, November 3-8, 2002.
240. "Polymer Modification of Carbon Nanotubes", M. Bratcher, S. McKnight, H. Ji, and J. W. Mays, presented at the Army Science Conference, Orlando, FL, December 2-6, 2002.

241. "A Study in the Dispersion of Carbon Nanotubes", M. Bratcher, B. Gersten, H. Ji, J. Mays, presented at the Army Science Conference, Orlando, FL, December 2-6, 2002.
242. "Polymerization in Room Temperature Ionic Liquids", K. Hong, H. Zhang, and J. Mays, invited poster at the Polymers West Gordon Conference, Ventura, CA, January 5-10, 2003.
243. "Polymerization in Ionic Liquids: A New Alternative Medium for Free Radical Polymerization", J. W. Mays, presented at the University of Akron, Department of Polymer Science, Akron, OH, January 30, 2003.
244. "Tailoring Macromolecular Architecture with Anionic Polymerization: The Need for Rigorous Molecular Characterization", J. W. Mays, presented at the Workshop on Polymer Synthesis for Physicists, American Physical Society Meeting, Austin, TX, March 1-2, 2003.
245. "Morphologies and Tensile Properties Study on Multigraft Copolymers with Tri-, Tetra-, and Hexafunctional Branch Points", R. Weidisch, Y. Zhu, E. Burgaz, S. P. Gido, D. Uhrig, and J. W. Mays, presented at the American Physical Society Meeting, Austin, TX, March 3-7, 2003.
246. "Amino Acid Derivatives for Formulation of Non-HEMA Containing Glass Ionomer Cements", D. Xie, I. Chung, W. Wu, A. D. Puckett, and J. W. Mays, presented at the American Association for Dental Research Meeting, San Antonio, TX, March 12-15, 2003.
247. "Molecular Modeling of Novel Graft Copolymers", B. G. Sumpter, D. W. Noid, and J. W. Mays, presented at the National Meeting of the American Chemical Society, New Orleans, LA, March 23 – 27, 2003; see also PMSE Preprints, 88, 361-62 (2003).
248. "Adsorption Phenomena of Polyelectrolytes, Amphiphilic Block, and Star Copolymers on Surfaces as Investigated by the Quartz Crystal Microbalance Method", M.-K. Park, S. Pispas, N. Hadjichristidis, J. Mays, and R. C. Advincula, presented at the National Meeting of the American Chemical Society, New Orleans, LA, March 23 – 27, 2003; see also PMSE Preprints, 88, 480-81 (2003).
249. "Polymer Brushes by Living Anionic Surface Initiated Polymerization (LASIP): Synthesis, Mechanism, and Block Copolymers", M.-K. Park, G. Sekellariou, S. Pispas, N. Hadjichristidis, J. Mays, and R. Advincula, presented at the National Meeting of the American Chemical Society, New Orleans, LA, March 23 – 27, 2003; see also Polymer Preprints, 44(1), 431-32 (2003).
250. "Characterization of an Insoluble Polyimide Oligomer by Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry", A. P. Gies, W. K. Nonidez, M. Anthamatten, R. C. Cook, and J. W. Mays, presented at the National Meeting of the American Chemical Society, New Orleans, LA, March 23 – 27, 2003; see also, PMSE Preprints, 88, 180 (2003).
251. "Structure and Scaling of Brushes Formed from Branched Polymer Amphiphiles", P. Tian, J. Yang, J. Mays, and S. M. Kilbey, presented at the National Meeting of the American Chemical Society, New Orleans, LA, March 23 – 27, 2003; see also Polymer Preprints, 44(1), 443-44 (2003).

252. "Synthesis and Evaluation of Non-HEMA Containing Glass-Ionomer Cements for Dental Applications", D. Xie, I. Chung, W. Wu, J. Lemons, A. Puckett, and J. Mays, presented at the Society for Biomaterials 29th Annual Meeting, April 30 – May 3, 2003.
253. "Synthesis and Structure-Property Relationships for Model Graft Copolymers", presented at the AVS (American Vacuum Society) Meeting, Knoxville, TN, May 20, 2003.
254. "Synthesis and Structure – Property Relationships of Model Graft Copolymers", J. W. Mays, invited plenary lecture at the Molecular Architecture for Performance (MAP) MURI Workshop (DOD), Aberdeen, MD, May 27 – 28, 2003.
255. "Polymer Structure-Property Relationships", J. W. Mays, presented at the workshop "Advanced Topics on Polymer Characterization", part of the 16th International Symposium on Polymer Analysis and Characterization (joint with Waters International GPC Symposium 2003), Baltimore, MD, June 8-12, 2003.
256. "Model Graft Copolymers", J. W. Mays, presented at Kraton Polymers, Houston, TX, June 18, 2003.
257. "Synthesis and Structure-Property Relationships for Regular Multigraft Copolymers", J. W. Mays, invited talk at the IUPAC-Sponsored International Symposium on Ionic Polymerization, Boston, MA, June 30 – July 4, 2003.
258. "Synthesis of Hyperbranched Polybutadiene through Anionic Self-Condensing Vinyl Polymerization", D. Baskaran and J. W. Mays, presented at the IUPAC-Sponsored International Symposium on Ionic Polymerization, Boston, MA, June 30 – July 4, 2003.
259. "Modification of Multi-Wall Carbon Nanotubes Through Covalent and Noncovalent Reactions of Polymers", D. Baskaran and J. W. Mays, presented at the Army Research Laboratory, Aberdeen, MD, July 15, 2003.
260. "Synthesis and Properties of Poly(isoprene-graft-styrene) Regular Multigrafts", R. Weidisch, S. P. Gido, D. Uhrig, and J. W. Mays, presented at the 26th Annual Australian Polymer Symposium, Noosa, Australia, July 14-16, 2003.
261. "Synthesis and Properties of Homopolymers and Copolymers having Multiple Regularly Spaced Branch Points", J. W. Mays, presented at the Canadian Society for Chemistry Meeting, Ottawa, August 10-14, 2003.
262. "Sulfonation of 1,3-Cyclohexadiene Polymers: A New Synthetic Polyelectrolyte", K. Hong, M. Liu, and J. W. Mays, presented at the New York National Meeting of the American Chemical Society, New York, NY, September 6-11, 2003; see also, *Polymer Preprints*, **44**(2), 657-58 (2003)
263. "Synthesis and Properties of Homopolymers and Copolymers having Regularly Spaced Multiple Branch Points", J. W. Mays, presented at IPF, Dresden, Germany, September 11, 2003.
264. "Solution Properties of Model Branched Polymers", J. W. Mays, plenary lecture at Wyatt Technology Light Scattering Colloquium, Santa Barbara, CA, September, 22, 2003.

265. "Synthesis and Properties of Long Chain Branched Polymers and Copolymers", J. W. Mays, invited seminar presented to the Department of Chemistry, Virginia Tech, October 15, 2003.
266. "Synthesis of Model Star-Branched Polyelectrolytes", W. Holley, K. Hong, and Jimmy W. Mays, poster presentation at the Gordon Research Conference on Colloidal, Macromolecular, and Polyelectrolyte Solutions, Ventura, CA, February 1-6, 2004.
267. "Synthesis and Characterization of Sulfonated 1,3-Cyclohexadiene Polymers", presented at Gordon Research Conference on Colloidal, Macromolecular and Polyelectrolyte Solutions, Ventura, CA Feb.1-6, 2004.
268. "Influence of Molecular Architecture on the Tensile Properties of Multigraft Copolymers", R. Weidisch, R. Lach, Y. Zhu, E. Burgasz, S. Gido, D. Uhrig, J. Mays, and N. Hadjichristidis, presented at the American Physical Society Meeting, Montreal, Canada, March 22 – 26, 2004.
269. "Defect Study on Noncentrosymmetric Lamellar Block Copolymer Blends", S. Chen, S. P. Gido, T. Tsoukatos, A. Avgeropoulos, N. Hadjichristidis, K. Hong, and J. W. Mays, presented at the American Physical Society Meeting, Montreal, Canada, March 22 – 26, 2004.
270. "Statistical Copolymerization of Styrene and Acrylates in 1-Butyl-3-Methylimidazolium Hexafluorophosphate: Reactivity Ratio Calculations", H. Zhang and J. W. Mays, presented at the American Chemical Society Meeting, Anaheim, CA, March 28 – April 1, 2004. See also, *Polym. Preprints*, 45(1), 331-332 (2004).
271. "A Room Temperature Ionic Liquid Assisted Polymerization of Methyl Methacrylate at Room Temperature", H. Zhang and J. W. Mays, presented at the American Chemical Society Meeting, Anaheim, CA, March 28 – April 1, 2004. See also, *Polym. Preprints*, 45(1), 329-330 (2004).
272. "Radius of Gyration of Polystyrene Combs and Centipedes in a Theta Solvent", K. Terao, B. S. Farmer, Y. Nakamura, H. Iatrou, K. Hong, and J. W. Mays, presented at the American Chemical Society Meeting, Anaheim, CA, March 28 – April 1, 2004. See also, *Polym. Preprints*, 45(1), 947 (2004).
273. "Radical Polymerization of Styrene and Methyl Methacrylate in Various Room Temperature Ionic Liquids", H. Zhang, K. Hong, and J. W. Mays, invited plenary presentation at the American Chemical Society Meeting, Anaheim, CA, March 28 – April 1, 2004. See also, *Polym. Preprints*, 45(1), 313-314 (2004).
274. "An Evaluation of the Synthetic Strategies Producing Well-Defined Carboxyl End-Capped Polystyrene through Anionic Polymerization", H. Ji and J. W. Mays, presented at the American Chemical Society Meeting, Anaheim, CA, March 28 – April 1, 2004. See also, *Polym. Preprints*, 45(1), 1103-1104 (2004).
275. "Attempts of Nitroxide Mediated Polymerization in a Room Temperature Ionic Liquid", H. Zhang, K. Hong, J. W. Mays, and C. Hawker, presented at the American Chemical Society Meeting, Anaheim, CA, March 28 – April 1, 2004. See also, *Polym. Preprints*, 45(1), 325-325 (2004).

276. "Synthesis of Amino Acid Based Block Copolymers Via Atom Transfer Radical Polymerization in Aqueous Media at Room Temperature", I. Chung, P. Britt, and J. Mays, presented at the American Chemical Society Meeting, Anaheim, CA, March 28 – April 1, 2004. See also, *Polym. Preprints*, **45**(1), 1091-1092 (2004).
277. "Polymer Adhesion and Friction: Importance of the Outermost Molecular Groups", N. Maeda, N. Chen, H. Ji, J. W. Mays, M. V. Tirrell, J. Israelachvili, presented at the American Chemical Society Meeting, Anaheim, CA, March 28 – April 1, 2004.
278. "Solution Properties of Regular Comb and Centipede Polystyrenes Under Good Solvent and Theta Solvent Conditions", J. W. Mays, invited talk at the International Workshop on Branched Polymers for Performance, Williamsburg, VA, May 23 -26, 2004.
279. "New Polymers for Fuel Cell Applications", M. Simonson, J. Mays, and K. Mauritz, presented at the DOE 2004 Hydrogen Program Review, Philadelphia, PA, May 24 – 26, 2004.
280. "New Model Polyelectrolytes", K. Hong, P. Britt, D. Holley, J. Yang, and J. Mays, presented at CEA-Saclay, Saclay, France, June 4, 2004.
281. "On-line Measurement of Molecular Weight and Radius of Gyration of Polystyrene in a Good Solvent and in a Theta Solvent Measured with a Two-Angle Light Scattering Detector", K. Terao and J. W. Mays, presented at the International Symposium on Polymer Analysis and Characterization, Heidelberg, Germany, June 7-9, 2004.
282. "New Model Polyelectrolytes", K. Hong, P. Britt, D. Holley, J. Yang, and J. Mays, invited presentation at Polyelectrolytes 2004, Amherst, MA, June 14-18, 2004.
283. "New Charged Block Copolymers Based on Poly(cyclohexadiene)", K. Hong, P. Britt, and J. W. Mays, presentation at Polyelectrolytes 2004, Amherst, MA, June 14-18, 2004.
284. "Morphology and Mechanical Properties of Multigraft Copolymers", U. Staudinger, R. Weidisch, S. P Gido, D. Uhrig, J. Mays, H. Iatrou, and N. Hadjichristidis, 40th World Polymer Congress MACRO 2004, Paris, France, July 4 – 9, 2004.
285. "Effect of Molecular Architecture on Ordering Kinetics of AnBn Miktoarm Star Block Copolymers", X. Hu, S. Gido, T. Russell, and J. Mays, presented at the Army Research Laboratory, Aberdeen, MD, July 28, 2004.
286. "Synthesis of Polymer-Grafted Multi-Walled Carbon Nanotubes Using Grafting From and Grafting Onto Strategies", D. Baskaran, J. Mays, M. Bratcher, presented at the Army Research Laboratory, Aberdeen, MD, July 28, 2004.
287. "Effect of Molecular Architecture on Dynamics of Multigraft Copolymers", M. Sun, J. Mijovic, and J. W. Mays, presented at the National American Chemical Society Meeting, Philadelphia, PA, August 22-26, 2004. See also: *PMSE Preprints*, **91**, 1024 (2004).

288. "Synthesis of Amphiphilic Miktoarm Star Copolymer A_2B_2 of Polystyrene and Poly(ethylene oxide)", M. Liu, P. F. Britt, and J. W. Mays, presented at the National American Chemical Society Meeting, Philadelphia, PA, August 22-26, 2004. See also: *Polymer Preprints*, 45(2), 555 (2004).
289. "Polyelectrolytes Based on Sulfonated 1,3-Cyclohexadiene Block Copolymers", Kunlun Hong, P. F. Britt, and J. W. Mays, presented at the National American Chemical Society Meeting, Philadelphia, PA, August 22-26, 2004. See also: *Polymer Preprints*, 45(2), 311 (2004).
290. "Macromolecular Complex Systems", J. Mays and P. Britt, presented at the CNMS Workshop on Microscopy, Metrology, and Manipulations for Nanophase Materials Sciences, American Museum of Science and Energy, Oak Ridge, TN, September 15 – 16, 2004.
291. "MALDI-TOF MS Comparison of Nomex and Oligomeric Poly(m-phenylene isophthalamide)", A. P. Gies, W. K. Nonidez, S. T. Ellison, H. Ji, and J. W. Mays, presented at the Southeast Regional Meeting of the American Chemical Society, Research Triangle Park, NC, November 10 – 13, 2004.
292. "Polymers and Copolymers Based on 1,3-Cyclohexadiene", J. W. Mays, K. Hong, P. Britt, T. Huang, invited lecture at the Polymers West Gordon Research Conference, Ventura, CA, January 9-14, 2005.
293. "Universal Calibration of Gel Permeation Chromatography by Means of Hydrodynamic Radius of Complex Polystyrene Architectures", B. S. Farmer, K. Terao, Y. Nakamura, and J. W. Mays, invited poster presentation, Polymers West Gordon Research Conference, Ventura, CA, January 9-14, 2005.
294. "Novel Biodegradable Amino Acid – Containing Anhydride Oligomers for Orthopedic Applications", D. Xie, I.-D. Chung, A. D. Puckett, and J. W. Mays, presented at the National American Chemical Society Meeting, San Diego, CA, March 13 – 17, 2005; See also: *Polymeric Materials Science and Engineering*, 92, 363 – 364 (2005).
295. "Thermal Characteristics of Poly(1,3-Cyclohexadienes)", K. Hong, T. Huang, P. F. Britt, M. Pyda, and J. W. Mays, presented at the National American Chemical Society Meeting, San Diego, CA, March 13 – 17, 2005; See also: *Polymer Preprints*, 46(1), 843 – 844 (2005).
296. "Reactive Modification of Polymer Interfaces: Formation of Loops", M. D. Dadmun, J. K. Rice, J. W. Mays, H. Ji, G. D. Smith, and D. Bedrov, presented at the National American Chemical Society Meeting, San Diego, CA, March 13 – 17, 2005; See also: *Polymer Preprints*, 46(1), 461 - 462 (2005).
297. "Investigating the Chemistry and Adsorption Behavior of Multiply Bound Polymer Chains (MBPC)", M. Dadmun, J. Mays, M. Kilbey, G. Smith, and R. Advincula, presented at the National American Chemical Society Meeting, San Diego, CA, March 13 – 17, 2005; See also: *Polymer Preprints*, 46(1), 420 - 421 (2005).

298. "Multiple Loop Formation by Epoxy-Terminated Polystyrene Telechelics on Self-Assembled Monolayers of 11-Mercaptoundecanoic Acid over Gold", R. Mehta, M. Dadmun, H. Ji, and J. W. Mays, presented at the National American Chemical Society Meeting, San Diego, CA, March 13 – 17, 2005; See also: *Polymer Preprints*, 46(1), 433 - 434 (2005).
299. "Direct Measurement of Attraction Between Identical Polyelectrolyte Brush Layers in the Presence of Multivalent Ions", F. Li, P. Schorr, M. V. Tirrell, and J. Mays, presented at the National American Chemical Society Meeting, San Diego, CA, March 13 – 17, 2005; See also: *Polymer Preprints*, 46(1), 377 - 378 (2005).
300. "Adsorption of P2VP-dPS-P2VP Triblock Copolymers onto Reactive Monolayers: Toward Multiply Bound Polymer Chains", J. P. Park, D. Patton, M. Liu, J. Mays, M. Dadmun, and R. Advincula, presented at the National American Chemical Society Meeting, San Diego, CA, March 13 – 17, 2005; See also: *Polymer Preprints*, 46(1), 501 - 502 (2005).
301. "Influence of Charge Density and Backbone Rigidity on the Structure and Properties of Polyelectrolyte Solutions", S. I. Yun, Y. B. Melnichenko, G. D. Wignall, K. Hong, J. Mays, and R. M. Briber, presented at the National Meeting of the American Physical Society, March 21 – 25, 2005, Los Angeles, CA.
302. "The Influence of Chain Rigidity and Degree of Sulfonation on the Morphology of Block Copolymers as Nano Reactor", K. Hong, S. I. Yun, J. Mays, X. Zhang, and R. M. Briber, presented at the National Meeting of the American Physical Society, March 21 – 25, 2005, Los Angeles, CA.
303. "Grafting and Loop Formation of Telechelic Polymers at Interfaces Monitored by Fluorescence Labeling", Z. Huang, H. Ji, J. Mays, and M. Dadmun, presented at the National Meeting of the American Physical Society, March 21 – 25, 2005, Los Angeles, CA.
304. "Formation and Properties of Molecular Loops at Polymer Interfaces", J. K. Rice, M. Dadmun, B. Farmer, H. Ji, and J. Mays, presented at the National Meeting of the American Physical Society, March 21 – 25, 2005, Los Angeles, CA.
305. "Stability of Core-Shell-Cylinder Structure of Poly(styrene-*b*-1,3-cyclohexadiene) Diblock Copolymers", A. Panday, S. Gido, K. Hong, and J. Mays, presented at the National Meeting of the American Physical Society, March 21 – 25, 2005, Los Angeles, CA.
306. "New Polyelectrolytes based on Poly(1,3-Cyclohexadiene)", J. W. Mays, invited lecture at the Gordon Research Conference on Ion Containing Polymers, May1-6, 2005, Il Ciocco, Italy.
307. "Effect of Macromolecular Architecture on Microphase Separation and Properties of Block Copolymers", J. W. Mays, D. Uhrig, K. Hong, invited lecture at Vanderbilt University, May 16, 2005.
308. "New Materials for Hydrogen Pipelines", B. Smith, B. Frame, C. Eberle, J. Blencoe, L. Anovitz, T. Armstrong, and J. Mays, poster presentation, U.S. DOE Hydrogen, Fuel Cells & Infrastructure Technologies Program, Annual Program Review Meeting, Arlington, Virginia, May 23-26, 2005.

309. "New Block Copolymers: From Ultrathin Films to Functional Polymer Nanoparticles", J. W. Mays, presented to Chemical Sciences Division, Oak Ridge National Laboratory, June 9, 2005.
310. "Characterization of Model Branched Polymers in Good and Theta Solvents Using Multi-Detector SEC", J. Mays, invited presentation at the International Symposium on Polymer Analysis and Characterization, Sheffield, England, June 20 – 22, 2005.
311. "Monitoring the Kinetics of the Reaction of Telechelics at a Soft Interface by Neutron Reflectivity", J. K. Rice, H. Ji, J. W. Mays, and M. D. Dadmun, presented at the National Meeting of the American Chemical Society, Washington, DC, August 28 – September 1, 2005; see also: *Polym. Mater. Sci. Eng.*, 93, 292 – 293 (2005).
312. "Characterization of Linear Poly(1,3-cyclohexadiene) (PCHD) and Fluorinated PCHD by GPC/Light Scattering", Q. Zhou, T. Havard, T. Huang, K. Hong, and J. W. Mays, presented at the National Meeting of the American Chemical Society, Analytical Division, Washington, DC, August 28 – September 1, 2005.
313. "Kinetics of Assembly of "Looped" Polymer Brushes at the Solid-Fluid Interface", J. Alonzo, M. Liu, M. Dadmun, J. W. Mays, and S. M. Kilbey II, presented at the National Meeting of the American Chemical Society, Washington, DC, August 28 – September 1, 2005; see also: *Polym. Mater. Sci. Eng.*, 93, 89 - 90 (2005).
314. "Telechelic Polymer Velcros or Brushes: Synthesis, Characterization, and Adsorption Studies", D. Patton, J. P. Park, M. Liu, J. Mays, M. Dadmun, M. Kilbey, G. Smith, and R.C. Advincula, presented at the National Meeting of the American Chemical Society, Washington, DC, August 28 – September 1, 2005; see also: *Polym. Preprints*, 46 (2), 122 - 123 (2005).
315. "Synthesis of Primary Amine Terminated Polymers using Living Anionic Polymerization and Characterization of the Polymers using MALDI-TOF Mass Spectrometry", H. Ji, D. Baskaran, and J. W. Mays, presented at the National Meeting of the American Chemical Society, Washington, DC, August 28 – September 1, 2005; see also: *Polym. Preprints*, 46 (2), 452 - 453 (2005).
316. "Synthesis and Characterization of Ω -Functionalized Multiarm Star-Branched Polyisoprenes and Poly(ethylene – co – propylene) Using Living Anionic Polymerization", B. Farmer and J. W. Mays, presented at the National Meeting of the American Chemical Society, Washington, DC, August 28 – September 1, 2005; see also: *Polym. Preprints*, 46 (2), 420 - 421 (2005).
317. "POSS Containing Multiblock Copolymers as Models of Well-Defined Organic-Inorganic Hybrid Materials", G. Cardoen, X. Hu, D. Baskaran, J. W. Mays, S. P. Gido, T. P. Russell, and E. B. Coughlin, presented at the National Meeting of the American Chemical Society, Washington, DC, August 28 – September 1, 2005; see also: *Polym. Preprints*, 46 (2), 783 - 784 (2005).
318. "Living Anionic Polymerization of 4-Vinylbenzocyclobutene", G. Sakellarou, D. Baskaran, and J. W. Mays, presented at the National Meeting of the American Chemical Society, Washington, DC, August 28 – September 1, 2005; see also: *Polym. Preprints*, 46 (2), 278 - 279 (2005).

319. "Interaction between End-Tethered Polyelectrolyte Brushes in the Presence of Oppositely Charged Surfactant", A. Ishikubo, J. W. Mays, and M. Tirrell, presented at the National Meeting of the American Chemical Society, Washington, DC, August 28 – September 1, 2005; see also: *Polym. Preprints*, 46 (2), 27 - 28 (2005).
320. "Defects in a Noncentrosymmetric Lamellar Block Copolymer Blend", S. Chen, S. P. Gido, T. Tsoukatos, A. Avgeropoulos, N. Hadjichristidis, K. Hong, and J. W. Mays, presented at the National Meeting of the American Chemical Society, Washington, DC, August 28 – September 1, 2005; see also: *Polym. Preprints*, 46 (2), 542 (2005).
321. "New Block Copolymers: From Ultrathin Films to Functional Polymer Nanoparticles", J. W. Mays, invited presentation at the Department of Chemical Engineering, University of Woming, September 12, 2005.
322. "Effect of Macromolecular Architecture and Chain Stiffness on Self-Assembly and Properties of Block Copolymers", J. W. Mays, D. Uhrig, K. Hong, S. Gido, and R. Weidisch, invited presentation at the Department of Chemical Engineering, University of South Florida, September 16, 2005.
323. "Surface Initiated Anionic and Atom Transfer Radical Polymerizations from Multi-Walled Carbon Nanotubes", D. Baskaran, G. Sakellariou, J. W. Mays, and M. Bratcher, presented at the International Symposium on Ionic Polymerization, October 23 – 28, 2005, Goa, India.
324. "Self-Assembly of Sulfonated 1,3-Cyclohexadiene Polymers in Solution", K. Hong, J. W. Mays, P. F. Britt, A. Yun, Y. Melnichenko, G. D. Wignall, and M. Muthukumar, presented at the International Chemical Congress of Pacific Basin Societies, "Pacifichem 2005", Honolulu, HI, December 15 – 20, 2005.
325. "Bulk and Solution Properties of Polymers Based on 1,3-Cyclohexadiene", J. W. Mays, K. Hong, G. Wignall, Y. Melnichenko, A. Yun, P. F. Britt, J. M. Simonson, T. Huang, M. Pyda, B. Farmer, S. Gido, X. Wu, K. Terao, and Y. Nakamura, presented at the International Chemical Congress of Pacific Basin Societies, "Pacifichem 2005", Honolulu, HI, December 15 – 20, 2005.
326. "Synthesis and Characterization of Model Star-Branched Polyelectrolytes", D. W. Holley and J. W. Mays, presented at the International Chemical Congress of Pacific Basin Societies, "Pacifichem 2005", Honolulu, HI, December 15 – 20, 2005.
327. "Superelastic Properties of Multigraft Copolymers", R. Weidisch, U. Staudinger, S. P. Gido, D. Uhrig, J. Mays, and N. Hadjichristidis, presented at the International Chemical Congress of Pacific Basin Societies, "Pacifichem 2005", Honolulu, HI, December 15 – 20, 2005.
328. "Noncentrosymmetric Block Copolymer Blends", S. Chen, S. P. Gido, T. Tsoukatos, A. Avgeropoulos, N. Hadjichristidis, K. Hong, and J. W. Mays, presented at the International Chemical Congress of Pacific Basin Societies, "Pacifichem 2005", Honolulu, HI, December 15 – 20, 2005.

329. "Using Long Chain Branching and Chain Stiffness to Manipulate the Morphology and Properties of Block Copolymers", J. W. Mays, invited presentation at Georgia Institute of Technology, Department of Polymers, Fiber, and Textiles Engineering, February 13, 2006.
330. "Proton Conducting Membranes from Fluorinated Polyisoprene-b- Polystyrene Sulfonate", A.I. Isaacs-Sodeye, S. P. Gido, T. Huang, and J.W. Mays, presented at the American Physical Society Meeting, Baltimore, MD, March 13-17, 2006.
331. "Morphology of Fluorinated and Sulfonated Diblock Copolymers", T. Hosoda, S. P. Gido, T. Huang, and J. W. Mays, presented at the American Physical Society Meeting, Baltimore, MD, March 13-17, 2006.
332. "Behavior of Cationic Surfactants in Oppositely Charged Polyelectrolyte Brushes formed by Physisorption of Amphiphilic Diblock Copolymers", A. Ishikubo, J. W. Mays, and M. Tirrell, presented at the National Meeting of the American Chemical Society, Atlanta, GA, March 26 – 30, 2006.
333. "Synthesis and Morphology of Fluorinated and Sulfonated Block Copolymers", J. W. Mays, T. Huang, and S. P. Gido, presented at the National Meeting of the American Chemical Society, Atlanta, GA, March 26 – 30, 2006; see also: *Polym. Mater. Sci. Eng.*, 94, 165-166 (2006).
334. "Self-Assembly of Poly(2-vinylpyridine) – Polystyrene – Poly(2-vinylpyridine) Triblock Copolymers at the Solid – Fluid Interface", J. Alonzo, Z. Huang, M. Liu, J. W. Mays, M. Dadmun, and S. M. Kilbey II, presented at the National Meeting of the American Chemical Society, Atlanta, GA, March 26 – 30, 2006; see also: *Polym. Mater. Sci. Eng.*, 94, 703 - 704 (2006).
335. "Distribution of Divalent and Monovalent Counterions within a Charged Brush", P. Guenoun, M. Delsanti, P. Fontaine, and J. W. Mays, presented at the National Meeting of the American Chemical Society, Atlanta, GA, March 26 – 30, 2006; see also: *Polym. Mater. Sci. Eng.*, 94, 629 - 630 (2006).
336. "Density Profiles of "Looped" Polymer Brushes at the Solid – Liquid Interface by Neutron Reflectivity Measurements", Z. Huang, J. Alonzo, M. Lay, M. Liu, H. Ji, Y. Zhang, Y. Fang, G. D. Smith, J. W. Mays, S. M. Kilbey II, and M. D. Dadmun, presented at the National Meeting of the American Chemical Society, Atlanta, GA, March 26 – 30, 2006; see also: *Polym. Mater. Sci. Eng.*, 94, 802 - 803 (2006).
337. "Multiple Loop Formation by Epoxy-Terminated Polystyrene Telechelics on Self-Assembled Monolayers of 11-Mercaptoundecanoic Acid Over Gold", R. Mehta, N. Henry, M. Dadmun, S. M. Kilbey II, H. Ji, and J. Mays, presented at the National Meeting of the American Chemical Society, Atlanta, GA, March 26 – 30, 2006; see also: *Polym. Preprints*, 47(1), 183 - 184 (2006).
338. "Adsorption of Bifunctionalized Poly(2-Vinylpyridine) – Polystyrene – Poly(2-Vinylpyridine): Characterization by AFM", J. Y. Park, D. Patton, M. Liu, P. Taranekar, J. Mays, M. Dadmun, and R. Advincula, presented at the National Meeting of the American Chemical Society, Atlanta, GA, March 26 – 30, 2006; see also: *Polym. Preprints*, 47(1), 57 - 58 (2006).

339. "Synthesis, Morphology, and Properties of Novel Branched Block Copolymers", J. W. Mays, S. Gido, and R. Weidisch, invited presentation at CIQA National Research Center, Saltillo, Mexico, April 4, 2006.
340. "Effect of Copolymer Architecture on the Morphology and Properties of Styrene/Isoprene Block Copolymers", J. W. Mays, S. Gido, and R. Weidisch, invited presentation at the American Chemical Society Rubber Division Thermoplastic Elastomers Conference, Akron, Ohio, May 11-12, 2006.
341. "Poly(cyclohexadiene) – Based Polymer Electrolyte Membranes for Fuel Cell Applications", J. W. Mays, T. Huang, H. Zhou, and K. Mauritz, poster presentation at the 2006 DOE Hydrogen Program Review, Washington, DC, May 16 – 19, 2006.
342. "Poly(cyclohexadiene) – Based Polymer Electrolyte Membranes for Fuel Cell Applications", J. W. Mays, T. Huang, H. Zhou, and K. Mauritz, oral presentation at the High Temperature Membranes Working Group, DOE Hydrogen Program Review, Washington, DC, May 16 – 19, 2006.
343. "Vesicle-Forming Block Copolypeptides", H. Iatrou, N. Ferderigos, N. Hadjichristidis, H. Frielinghaus, D. Richter, J. Messman, J. W. Mays, S. Nevanpaa, and O. Ikkalla, invited presentation at the 19th International Symposium on Polymer Analysis and Characterization (ISPAC), Oak Ridge, Tennessee, June 12 – 14, 2006.
344. "Synthesis and Characterization of POSS Containing Star Polymers", B. Farmer, C. Barnes, and J. W. Mays, poster presentation at the 19th International Symposium on Polymer Analysis and Characterization (ISPAC), Oak Ridge, Tennessee, June 12 – 14, 2006.
345. "Grafting and Loop Formation of Telechelic Polymers on Polymer-Substrate Interfaces", Z. Huang, H. Ji, J. W. Mays, and M. D. Dadmun, poster presentation at the 19th International Symposium on Polymer Analysis and Characterization (ISPAC), Oak Ridge, Tennessee, June 12 – 14, 2006.
346. "Synthesis and Characterization of Star-Branched Polyelectrolytes", D. W. Holley and J. W. Mays, poster presentation at the 19th International Symposium on Polymer Analysis and Characterization (ISPAC), Oak Ridge, Tennessee, June 12 – 14, 2006.
347. "Capabilities of the Polymer Characterization Lab", T. Malmgren, E. Ashcraft, M. Dadmun, and J. Mays, poster presentation at the 19th International Symposium on Polymer Analysis and Characterization (ISPAC), Oak Ridge, Tennessee, June 12 – 14, 2006.
348. "Thermal Stability of Fluorinated Polydienes Synthesized by Addition of Difluorocarbenes", T. Huang, T. Malmgren, K. Hong, and J. W. Mays, poster presentation at the 19th International Symposium on Polymer Analysis and Characterization (ISPAC), Oak Ridge, Tennessee, June 12 – 14, 2006.
349. "Grafting of Poly(ethylene oxide) Chains onto C60", R. Aggarwal and J. W. Mays, poster presentation at the 19th International Symposium on Polymer Analysis and Characterization (ISPAC), Oak Ridge, Tennessee, June 12 – 14, 2006.

350. "Synthesis of Well-Defined Organic Nanoparticles", G. Sakellariou, D. Baskaran, N. Hadjichristidis, and J. W. Mays, poster presentation at the 19th International Symposium on Polymer Analysis and Characterization (ISPAC), Oak Ridge, Tennessee, June 12 – 14, 2006.
351. "Living Anionic Surface Initiated Polymerization from Multi-Walled Carbon Nanotubes", G. Sakellariou, H. Ji, D. Baskaran, N. Hadjichristidis, and J. W. Mays, poster presentation at the 19th International Symposium on Polymer Analysis and Characterization (ISPAC), Oak Ridge, Tennessee, June 12 – 14, 2006.
352. "Synthesis of Block Copolymers of Styrene and Vinyl Acetate by Conventional Free Radical Polymerization in a Room Temperature Ionic Liquid", X. Ma, T. Huang, and J. Mays, poster presentation at the 19th International Symposium on Polymer Analysis and Characterization (ISPAC), Oak Ridge, Tennessee, June 12 – 14, 2006.
353. "MALDI-TOF MS Characterization of Mono-fluorescent Labeled and Primary Amine End-Functionalized Polyisoprene Synthesized by Living Anionic Polymerization", H. Ji, R. Advincula, M. Kilbey, G. Smith, M. Dadmun, and J. Mays, poster presentation at the 19th International Symposium on Polymer Analysis and Characterization (ISPAC), Oak Ridge, Tennessee, June 12 – 14, 2006.
354. "Synthesis and Characterization of Amphiphilic μ -star PS₂PEO₂ using Alkylolithium Initiator and Phosphazine Base t-BuP₄", M. Liu and J. W. Mays, poster presentation at the 19th International Symposium on Polymer Analysis and Characterization (ISPAC), Oak Ridge, Tennessee, June 12 – 14, 2006.
355. "Synthesis and Characterization of Y-Shaped Branched Copolymer (PS-b-PI)PI₂", M. Liu and J. W. Mays, poster presentation at the 19th International Symposium on Polymer Analysis and Characterization (ISPAC), Oak Ridge, Tennessee, June 12 – 14, 2006.
356. "Synthesis, Morphology, and Tensile Properties of Multigraft Copolymers with Regularly Spaced Tri-, Tetra-, and Hexa-functional Junction Points", D. Uhrig, J. W. Mays, Y. Zhu, E. Burgaz, S. P. Gido, U. Staudinger, and R. Weidisch, poster presentation at the 19th International Symposium on Polymer Analysis and Characterization (ISPAC), Oak Ridge, Tennessee, June 12 – 14, 2006.
357. "Synthesis of Well-Defined Oligo(oxyethylene) Styrene Block Copolymers and their Temperature-Induced Phase Transitions in Aqueous Solution", F. Hua, K. Hong, P. F. Britt, and J. W. Mays, poster presentation at the 19th International Symposium on Polymer Analysis and Characterization (ISPAC), Oak Ridge, Tennessee, June 12 – 14, 2006.
358. "Characterization of Sulfonated 1,3-Cyclohexadiene Polymers by Light Scattering and Small-Angle Neutron Scattering (SANS)", K. Hong, S. I. Yun, J. W. Mays, Y. B. Melnichenko, and G. D. Wignall, poster presentation at the 19th International Symposium on Polymer Analysis and Characterization (ISPAC), Oak Ridge, Tennessee, June 12 – 14, 2006.
359. "Synthesis and Characterization of Poly(L-Aspartic Acid) – Based Chimeras using High Vacuum Techniques", J. M. Messman, P. F. Britt, J. W. Mays, and P. Guenoun, presented at the National Meeting of the American Chemical Society, San Francisco, CA, September 10 – 14, 2006; see also Polym. Preprints, 47(2), 172-173 (2006).

360. "Self-Assembly of Sulfonated Poly(1,3-Cyclohexadiene) in Aqueous Solution as Studied by Small-Angle Neutron Scattering (SANS)", S. H. Yun, K. Hong, Y. B. Melnichenko, G. D. Wignall, and J. W. Mays, presented at the National Meeting of the American Chemical Society, San Francisco, CA, September 10 – 14, 2006; see also *Polym. Preprints*, 47(2), 620 - 621 (2006).
361. "Synthesis and Properties of Fluorinated and Sulfonated Block Copolymers", J. W. Mays, invited lecture presented at the University of Akron, Akron, OH, October 6, 2006.
362. "New Block Copolymers Containing Sulfonated Blocks", J. W. Mays, invited lecture at Fudan University, Shanghai, China, October 24, 2006.
363. "Effect of Architecture on Morphology and Mechanical Properties of Block Copolymers: Routes to Super-Elastomers", J. W. Mays, invited lecture at Fudan University, Shanghai, China, October 24, 2006.
364. "Effect of Architecture on Morphology and Mechanical Properties of Block Copolymers: Routes to Super-Elastomers", J. W. Mays, invited lecture at East China University of Science and Technology, Shanghai, China, October 25, 2006.
365. "Fluorinated and Sulfonated Poly(1,3-Cyclohexadiene-*b*-Polystyrene: A Potential Material for Fuel Cell PEM", T. Huang and J. W. Mays, invited presentation at the Polymers West Graduate Research Seminar, Ventura, CA, January 5 – 7, 2007.
366. "Poly(Cyclohexadiene)-Based Polymer Electrolyte Membranes for Fuel Cell Applications", S. Deng, M. K. Hassan, K. A. Mauritz, and J. W. Mays, invited poster presentation at the Polymers West Gordon Research Conference, Ventura, CA, January 7 – 12, 2007.
367. "Tailored Amino Acid Based Block Copolymers via Atom Transfer Radical Polymerization in Aqueous Media at Ambient Temperature", I. Chung, P. Britt, and J. W. Mays, invited poster presentation at the Polymers West Gordon Research Conference, Ventura, CA, January 7 – 12, 2007.
368. "Vinyl Dimethyl Azlactone-Containing Copolymers: Toward Bio-inspired Surfaces", J. Messman, M. Kilbey, J. Ankner, D. Myles, and J. Mays, invited poster presentation at the Polymers West Gordon Research Conference, Ventura, CA, January 7 – 12, 2007.
369. "Fluorinated and Sulfonated Poly(1,3-Cyclohexadiene-*b*-Polystyrene: A Potential Material for Fuel Cell PEM", T. Huang and J. W. Mays, invited poster presentation at the Polymers West Gordon Research Conference, Ventura, CA, January 7 – 12, 2007.
370. "Synthesis, Self-Assembly, and Biofunctionalization of Stimuli-Responsive Polymer Brushes", J. M. Messman, A. Banaszek, J. Barringer, and S. M. Kilbey II, presented at the 34th International Waterborne, High-Solids, and Powder Coatings Symposium, New Orleans, LA, February 14 – 16, 2007; see also *Proceedings of the 34th International Waterborne, High-Solids, and Powder Coatings Symposium*, 67 – 76 (2007).

371. "Proton Conducting Membranes from Fluorinated Poly(isoprene)-b-Sulfonated Poly(styrene): Structure and Transport Properties", A. Isaacs-Sodeye, S. Gido, T. Huang, and J. Mays, presented at the 2007 March Meeting of the American Physical Society, Denver, Colorado, March 5-9, 2007.
372. "Grafting of Telechelic Polymers onto Functionalized Substrates in Polymeric Matrices", R. Mehta, Z. Huang, H. Ji, J. Mays, M. D. Dadmun, presented at the 2007 March Meeting of the American Physical Society, Denver, Colorado, March 5-9, 2007.
373. "Kinetics of Grafting and Loop Formation of Telechelic Polymers on a Solid Substrate", M. Dadmun, Z. Huang, H. Ji, and J. Mays, presented at the 2007 March Meeting of the American Physical Society, Denver, Colorado, March 5-9, 2007.
374. "Superelastic Materials based on Mutigraft Copolymers", U. Staudinger, R. Weidisch, Y. Zhu, S. P. Gido, D. Uhrig, J. W. Mays, M. Kleuppel, and G. Heinrich, presented at the 2007 March Meeting of the American Physical Society, Denver, Colorado, March 5-9, 2007.
375. "Small-angle Neutron Scattering Study of Oligo(ethylene glycol) Grafted Polystyrene in Aqueous Solutions", G. Cheng, Y. B. Melnichenko, G. D. Wignall, F. Hua, K. Hong, P. F. Britt, and J. W. Mays, presented at the 2007 March Meeting of the American Physical Society, Denver, Colorado, March 5-9, 2007.
376. "Synthesis of Dual-Responsive Diblock Copolymers of Poly(acrylic acid) and Poly(oligo(oxyethylene)styrene) and their Self-Assembly in Water", F. Hua, K. Hong, P. F. Britt, and J. W. Mays, presented at the Spring 2007 National Meeting of the American Chemical Society, Chicago, IL, March 25 – 29, 2007; see also *Polym. Mater. Sci. Eng.*, 96, 361 – 362 (2007).
377. "Structure and Scaling Behavior of Polymer Brushes with Multiple Tethers", J. Alonzo, Z. Huang, H. Ji, J. W. Mays, M. Dadmun, and S. M. Kilbey II, presented at the Spring 2007 National Meeting of the American Chemical Society, Chicago, IL, March 25 – 29, 2007; see also *Polym. Preprints*, 48(1), 781-82 (2007).
378. "Phase Transitions of Well-Defined Methoxyoligo(oxyethylene)styrene Block Copolymers in Concentrated Aqueous Solutions", F. Hua, K. Hong, P. F. Britt, and J. W. Mays, presented at the Spring 2007 National Meeting of the American Chemical Society, Chicago, IL, March 25 – 29, 2007; see also, *Polym. Preprint*, 48(1), 838-39 (2007).
379. "Monitoring the Reaction of Telechelics at a Soft Polymeric Interface to Form Interfacial Modifiers", M. D. Dadmun, J. K. Rice, H. Ji, J. W. Mays, V. Krikorian, E. L. Thomas, G. D. Smith, and D. Bedrov, presented at the Spring 2007 National Meeting of the American Chemical Society, Chicago, IL, March 25 – 29, 2007; see also, *Polym. Preprints*, 48(1), 731-32 (2007).
380. "Looped Polymer Brushes at the Solid-Fluid Interface Formed by Preferential Adsorption of Amphiphilic Star Block Copolymers", J. Alonzo, H. Ji, J. W. Mays, M. Dadmun, and S. M. Kilbey II, presented at the Spring 2007 National Meeting of the American Chemical Society, Chicago, IL, March 25 – 29, 2007; see also, *Polym. Preprints*, 48(1), 721-22 (2007).

381. “New Polymeric Materials Derived from 1,3-Cyclohexadiene”, J. Mays, invited lecture at the Symposium on Functional Polymer Based Materials, Jena, Germany, April 3-4, 2007.
382. “Superelastic Materials Based on Multigraft Copolymers”, R. Weidisch, U. Staudinger, Y. Zhu, S. P. Gido, D. Uhrig, J. W. Mays, H. Iatrou, and N. Hadjichristidis, invited presentation at the Symposium on Functional Polymer Based Materials, Jena, Germany, April 3-4, 2007.
383. “Influence of Branch Points in Tetrafunctional PI-PS Multigraft Copolymers on Mechanical and Rheological Properties”, M. Thunga, U. Staudinger, R. Weidisch, D. Uhrig, J. W. Mays, and S. P. Gido, invited presentation at the Symposium on Functional Polymer Based Materials, Jena, Germany, April 3-4, 2007.
384. “Control of Molecular Architecture in Block Copolymers: Routes to Super-Elastomers”, J. W. Mays, invited presentation at the University of Southern Mississippi, Hattiesburg, MS, April 11, 2007.
385. “Poly(cyclohexadiene)-Based Polymer Electrolyte Membranes for Fuel Cell Applications”, J. Mays, S. Deng, M. Hassan, and K. Mauritz, presented at the 2007 DOE Hydrogen Program Annual Merit Review, Arlington, VA, May 14 – 17, 2007.
386. “Synthetic Methods to Modify Surfaces with Polymers”, J. W. Mays, invited presentation at the 2007 American Chemical Society National Graduate Polymer Research Conference, Knoxville, TN, June 3-6, 2007.
387. “Light Scattering Study of Well-Defined Flexible Polyelectrolytes with Two Cationic Sites per Monomeric Unit”, M. Osa, G. Mountrichas, K. Hong, S. Pispas, P. F. Britt, and J. W. Mays, presented at the Fall 2007 National Meeting of the American Chemical Society, Boston, MA, August 19 – 23, 2007. See also: *Polym. Mater. Sci. Eng.*, 97, 930 (2007).
388. “Characterization of Branched and End-Functionalized Polymers”, J. W. Mays, invited presentation at Chevron Oronite Company, Richmond, CA, September 10, 2007.
389. “Synthesis and Characterization of Poly(Cyclohexadiene)-Based Fuel Cell Membranes”, S. Deng, M. Hassan, K. Mauritz, and J. Mays, presented at the 20th International Symposium on Polymer Analysis and Characterization, October 1-4, 2007, Agios Nikolaos, Crete, Greece.
390. “Characterization of Vesicular Structures Formed by Amphiphilic Well Defined Triblock Copolypeptides”, H. Iatrou, H. Frielinghaus, S. Hanski, N. Ferdirigos, J. Ruokolainen, O. Ikkala, D. Richter, J. Mays, and N. Hadjichristidis, presented at the 20th International Symposium on Polymer Analysis and Characterization, October 1-4, 2007, Agios Nikolaos, Crete, Greece.
391. “Synthesis and Characterization of Well Defined Polymer-Grafted Multi-Walled Carbon Nanotube Composites by Living Anionic, Atom Transfer, and Ring Opening Surface Initiated Polymerization”, D. Priftis, G. Sakellariou, J. Mays, and N. Hadjichristidis, presented at the 20th International Symposium on Polymer Analysis and Characterization, October 1-4, 2007, Agios Nikolaos, Crete, Greece.

392. “Deuteration Capabilities – Making Labelled Nanomaterials for Neutron Studies”, J. Mays et al., CNMS Users Meeting, October 10 – 11, 2007, Oak Ridge, TN.
393. “Energy-Related Soft Materials: Conducting and Liquid Crystal Polymers”, J. Mays et al., CNMS Users Meeting, October 10 – 11, 2007, Oak Ridge, TN.
394. “Synthesis of Bio-Inspired Nanomaterials”, J. Mays et al., CNMS Users Meeting, October 10 – 11, 2007, Oak Ridge, TN.
395. “Poly(1,3-Cyclohexadiene)-Based Proton Exchange Fuel Cell Membranes”, S. Deng, M. K. Hassan, J. W. Mays, and K. A. Mauritz, invited presentation at the Southeast Regional Meeting of the American Chemical Society (SERMACS), October 26, 2007, Greenville, SC.
396. “Synthesis, Morphology, and Properties of Branched or Charged Block Copolymers”, J. W. Mays, invited lecture at the Second International Symposium on Polymer Materials Science, National Institute of Standards and Technology, Gaithersburg, MD, December 10 – 11, 2007.
397. “Novel Ion-Containing Polymers Via Post-Polymerization Chemistry” J. Mays, invited Highlands in Chemistry Lecture at the Department of Chemistry, Virginia Tech, Blacksburg, VA, March 14, 2008.
398. “Poly(cyclohexadiene)-Based Polymer Electrolyte Membranes for Fuel Cell Applications”, J. Mays, S. Deng, M. Hassan, and K. Mauritz, presented to the meeting of the FreedomCar and Fuel Cells Partnership, Detroit, MI, March 19, 2008.
399. “Surface Modification of Multi-Walled Carbon Nanotubes by Living Anionic and Ring Opening Surface Initiated Polymerization”, G. Sakellariou, D. Priftis, H. Iatrou, D. Baskaran, J. W. Mays, and N. Hadjichristidis, presented at the National Meeting of the American Chemical Society, New Orleans, LA, April 6-10, 2008; see also: *Polym. Mater. Sci. Eng.*, 98, 207-209 (2008).
400. “Solution Properties and Adsorbed Morphology of Polystyrene – Polyisoprene Miktoarm Copolymers”, J. P. Hinestrosa, J. Alonzo, M. Liu, M. Osa, J. Mays, and S. M. Kilbey II, presented at the National Meeting of the American Chemical Society, New Orleans, LA, April 6-10, 2008; see also: *Polym. Mater. Sci. Eng.*, 98, 476 - 477 (2008).
401. “Kinetics of Self Assembly of Star Block Copolymers that Tether by their Corona Blocks at the Solid-Fluid Interface”, J. Alonzo, H. Ji, J. P. Hinestrosa, J. W. Mays, M. Dadmun, and S. M. Kilbey II, presented at the National Meeting of the American Chemical Society, New Orleans, LA, April 6-10, 2008; see also: *Polym. Mater. Sci. Eng.*, 98, 38 - 39 (2008).
402. “Kinetics of Adsorption of Polystyrene-Polyisoprene Miktoarm Copolymers”, J. P. Hinestrosa, J. Alonzo, M. Liu, M. Osa, J. Mays, and S. M. Kilbey II, presented at the National Meeting of the American Chemical Society, New Orleans, LA, April 6-10, 2008; see also: *Polym. Mater. Sci. Eng.*, 98, 34 - 35 (2008).

403. "Equilibrium Structure of Polymer Brushes with Multiple Tethers by Self assembly of Star Block Copolymers at the Solid-Fluid Interface, J. Alonzo, J. P. Hinestrosa, J. W. Mays, M. Dadmun, and S. M. Kilbey II, presented at the National Meeting of the American Chemical Society, New Orleans, LA, April 6-10, 2008; see also: *Polym. Mater. Sci. Eng.*, 98, 365 - 366 (2008).
404. "Compatibilization of Polymer Blends by Multiblock Copolymers Formed In-Situ via Melt Mixing", E. Ashcraft, H. Ji, J. Mays, and M. Dadmun, presented at the National Meeting of the American Chemical Society, New Orleans, LA, April 6-10, 2008; see also: *Polym. Mater. Sci. Eng.*, 98, 139 - 140 (2008).
405. "Controlled Functional Nanoparticles from Diblock Copolymer Micelles", G. Sakellariou, E. Driva, D. Baskaran, and J. W. Mays, presented at the National Meeting of the American Chemical Society, New Orleans, LA, April 6-10, 2008; see also: *Polym. Preprints*, 49(1), 315 - 316 (2008).
406. "Conformation of Water Soluble Polythiophenes in Aqueous Solution", R. Verduzco, K. Hong, J. W. Mays, and P. F. Britt, presented at the National Meeting of the American Chemical Society, New Orleans, LA, April 6-10, 2008; see also: *Polym. Preprints*, 49(1), 313 - 314 (2008).
407. "Novel Proton Conductive Membranes Derived from 1,3-Cyclohexadiene", J. Mays, S. Deng, M. Hassan, and K. Mauritz, invited Keynote Lecture at the Purdue University Hydrogen Symposium 2008, West Lafayette, IN, April 24 - 25, 2008.
408. "Poly(cyclohexadiene)-Based Polymer Electrolyte Membranes for Fuel Cell Applications", J. Mays, S. Deng, M. Hassan, and K. Mauritz, presented at the DOE Annual Hydrogen Review, Arlington, VA, June 9 - 11, 2008.
409. "Effect of Molecular Structure on Rheological Behavior of Nearly Monodisperse H-Shaped Polybutadienes", S.W. Li, H.E. Park, J.M. Dealy, M. Maric, M.S. Rahman, J. Mays, X. Chen, R.G. Larson, Invited Presentation at the XVth International Congress on Rheology, August 3-8, 2008, Monterey, CA; see also *Proceedings of the XVth International Congress on Rheology*, 1027:430-432 (2008).
410. "Synthesis of Fluorine-Containing Polymer by Living Radical Polymerization", L. He, K. Hong, P. F. Britt, J. Mays, and D. G. Bucknall, presented at the National Meeting of the American Chemical Society, August 17 - 21, 2008, Philadelphia, PA; see also *Polymer Preprints*, 49(2), 319 - 320 (2008).
411. "Micellization of Block Copolymers in Subcritical and Supercritical Solvents", M. Radosz, Z. Tyrrell, W. Winoto, S. Tan, Y. Shen, K. Hong, and J. Mays, presented at the National Meeting of the American Chemical Society, August 17 - 21, 2008, Philadelphia, PA.
412. "Novel Proton Conductive Membranes based on Poly(Cyclohexadiene) Derivatives", J. W. Mays, invited lecture at the UK Polymer Showcase, September 16 - 18, 2008, York, England.
413. "Film Casting Behavior of Well-Characterized Polyethylenes with Different Branching Structure", D. Auhl, S. Kunamaneni, J. Embery, C. W. Seay, C. D. McGrady, T. Malmgren, J. W. Mays, D. G. Baird, T.C.B. McLeish, presented at the UK Polymer Showcase, September 16 - 18, 2008, York, England.

414. "Polymer Based Nanotechnology for Protection", J. W. Mays, presented at North Carolina State University, September 22, 2008, Raleigh, North Carolina.
415. "Novel Ion-Containing Polymers Via Post-Polymerization Chemistry: Synthesis, Morphology, and Mineralization Studies", J. W. Mays, invited lecture at the 7th Hellenic Polymer Conference, September 28 – October 1, 2008, Ioannina, Greece.
416. "Vesicles from Well-Defined Block Copolypeptides", H. Iatrou, F. Federigos, N. Hadjichristidis, H. Frielinghaus, D. Richter, S. Nevanpaa, O. Ikkala, and J. W. Mays, invited lecture at the 7th Hellenic Polymer Conference, September 28 – October 1, 2008, Ioannina, Greece.
417. "A General Approach to Surface Initiated Polymerization from Multi-Wall Carbon Nanotubes", D. Priftis, G. Sakellariou, D. Baskaran, J. W. Mays, and N. Hadjichristidis, invited lecture at the 7th Hellenic Polymer Conference, September 28 – October 1, 2008, Ioannina, Greece.
418. "Synthesis, Molecular and Morphological Characterization of Linear Triblock Terpolymers Where One of the Blocks is Poly(Cyclohexadiene)", K. Misichronis, S. Rangou, E. Ashcroft, J. W. Mays, and A. Avgeropoulos, poster at the 7th Hellenic Polymer Conference, September 28 – October 1, 2008, Ioannina, Greece.
419. "Controlled Functional Nanoparticles", E. Driva, G. Sakellariou, D. Baskaran, and J. W. Mays, poster at the 7th Hellenic Polymer Conference, September 28 – October 1, 2008, Ioannina, Greece.
420. "A New Approach to Click Chemistry - Combination of Anionic Polymerization and Click Chemistry", A. Touris, J. Mays, N. Hadjichristidis, 7th Hellenic conference on Polymers, Giannina, Greece, 28 September - 1 October, 2008.
421. "Synthesis, Morphology and Properties of Branched Block Copolymers", J. W. Mays, invited presentation at the University of the South, Sewanee, TN, November 7, 2008.
422. "Sulfonated Fuel Cell Membrane", J. Mays, S. Deng, K. Mauritz, M. Hassan, presented at the Tennessee Innovation Conference, Nashville, TN, November 20 – 21, 2008.
423. "Novel Charged Polymers: From Biomineralization to Fuel Cell Membranes", J. W. Mays, invited lecture at the University of Minnesota, Department of Chemical Engineering and Materials Science, December 2, 2008.
424. "Evaluation of the Final Morphology of HIPS Based on the Architecture of the Compatibilizer Graft Copolymer PBd-g-PS", C. de Anda, G. Morales, P. Acuna, J. Sosa, D. Knoepfel, and J. Mays, presented at the Inaugural Mexican-American Conference on Advances in Polymer Science, Los Cabos, Mexico, December 7-10, 2008.
425. "Poly(cyclohexadiene)-Based Polymer Electrolyte Membranes for Fuel Cell Applications", J. Mays, S. Deng, M. Hassan, and K. Mauritz, presented at US Car, Detroit, MI, February 11, 2009.
426. "Poly(cyclohexadiene)-Based Polymer Electrolyte Membranes for Fuel Cell Applications", J. Mays, S. Deng, M. Hassan, and K. Mauritz, presented to Department of Energy, Washington, DC, February 26, 2009.

427. “Determining the Effectiveness of Polymer Blend Compatibilization by Multiblock Copolymers formed in-situ via Melt Blending”, E. Ashcraft, H. Ji, J. W. Mays, and M. D. Dadmun, presented at the Spring 2009 National ACS Meeting, Salt Lake City, UT, March 22 – 26, 2009; see also: *Polymeric Materials: Science & Engineering*, 100, 229 – 230 (2009).
428. “Novel Thermally Switchable Smart Polymer Films”, S. Zhang, D. Bucknall, K. Hong, L. He, and J. Mays, presented at the Spring 2009 National ACS Meeting, Salt Lake City, UT, March 22 – 26, 2009; see also: *Polymeric Materials: Science & Engineering*, 100, 172 (2009).
429. “Synthesis of Controlled Functional Nanoparticles”, P. Driva, G. Sakellariou, D. Baskaran, V. Urban, and J. W. Mays, presented at the Spring 2009 National ACS Meeting, Salt Lake City, UT, March 22 – 26, 2009; see also: *Polymer Preprints*, 50(1), 124 - 125 (2009).
430. “Synthesis and Characterization of Primary Amine ω -Functionalized Polystyrene”, J. M. Messman, D. L. Pickel, D. W. Uhrig, and J. W. Mays, presented at the Spring 2009 National ACS Meeting, Salt Lake City, UT, March 22 – 26, 2009; see also: *Polymer Preprints*, 50(1), 141 - 142 (2009).
431. “Modeling of Hysteresis Behavior of Multigraft Copolymers”, R. Schlegel, D. Wilkin, U. Staudinger, R. Weidisch, J. W. Mays, D. Uhrig, and N. Hadjichristidis, presented at the DPG Spring Meeting, Dresden, Germany, March, 22 – 27, 2009.
432. “Synthesis, Morphology and Properties of Branched Block Copolymers”, J. W. Mays, invited Bayer Lectures on Polymers, Cornell University, Ithaca New York, April 8, 2009.
433. “Novel Charged Polymers: From Biomineralization to Fuel Cell Membranes”, J. W. Mays, invited Bayer Lectures on Polymers, Cornell University, Ithaca New York, April 9, 2009.
434. “Poly(cyclohexadiene)-Based Polymer Electrolyte Membranes for Fuel Cell Applications”, J. Mays, S. Deng, M. Hassan, and K. Mauritz, presented at the DOE Annual Hydrogen Review, Arlington, VA, May 18 – 21, 2009.
435. “Neutron Scattering Research Network for EPSCoR States”, T. Egami, J. Mays, J. Smith, presented at the 2009 DOE EPSCoR Review, Hauppauge, New York, July 20-23, 2009.
436. “Assembly and Characterization of Well Defined Poly(P-Phenylene) Polymer Brushes for Advanced Energy Systems”, J. Alonzo, X. Yu, K. Hong, S. Deng, O. Swader, M. Dadmun, J. Ankner, P. Britt, J. Mays, and S.M. Kilbey II, presented at the Fall 2009 National Meeting of the American Chemical Society, Washington, DC, August 16 – 20, 2009. See also, *PMSE Preprints*, 101, 1594 – 1595 (2009).
437. “Synthesis and Characterization of Comb-Like Copolymers with Thiophene Backbone”, X. Yu, Y. Li, J. W. Mays, and K. Hong, presented at the Fall 2009 National Meeting of the American Chemical Society, Washington, DC, August 16 – 20, 2009. See also, *PMSE Preprints*, 101, 1537 – 1539 (2009).

438. "Synthesis and Solution Properties of Poly(9-Phenyl-10-(4-Vinylphenyl) Anthracene)", Y. Li, G. Cheng, X. Yu, Y. B. Melnichenko, J. W. Mays, and K. Hong, presented at the Fall 2009 National Meeting of the American Chemical Society, Washington, DC, August 16 – 20, 2009. See also, PMSE Preprints, 101, 909 - 910 (2009).
439. "Synthesis of Fluorine-Containing ABC Linear Triblock Copolymer by Controlled Radical Polymerization and Self-Assembly in Solution", L. He, K. Hong, S. M. Kilbey II, J. W. Mays, S. Zhang, and D. G. Bucknall, presented at the Fall 2009 National Meeting of the American Chemical Society, Washington, DC, August 16 – 20, 2009. See also, PMSE Preprints, 101, 1596 - 1597 (2009).
440. "Functional Polymer Architecture Research at the Center for Nanophase Materials Sciences", J. Mays, invited lecture at the Fall 2009 National Meeting of the American Chemical Society, Washington, DC, August 16 – 20, 2009.
441. "Low Cost High Temperature Fuel Cell Membrane Based on Poly(1,3-cyclohexadiene) Homopolymers, Polymer Blends, and Block Copolymers", S. Deng, J. W. Mays, M. K. Hassan, and K. A. Mauritz, presented at the Fall 2009 National Meeting of the American Chemical Society, Washington, DC, August 16 – 20, 2009.
442. "Effect of the Molecular Parameters of the Graft Copolymer PBd-g-PS in the Morphological Development of the Rubber Phase in HIPS", C. de Anda, G. Morales, J. Sosa, D. Knoepfel, and J. W. Mays, presented at the Fall 2009 National Meeting of the American Chemical Society, Washington, DC, August 16 – 20, 2009. See also, Polymer Preprints, 50(2), 195 - 196 (2009).
443. "Covalent Grafting of Well-Defined Polymers on Multi-Walled Carbon Nanotubes", D. Baskaran and J. W. Mays, invited talk at the International Conference on Carbon-Nanostructured Materials (Cnano '09), Santorini, Greece, October 4 – 8, 2009.
444. "Functionalization of Multi-walled Carbon Nanotubes by Combinations of Living Anionic, Ring Opening and Atom Transfer Surface Initiated Polymerization", D. Priftis, G. Sakellariou, N. Hadjichristidis, D. Baskaran, and J. W. Mays, poster presentation at the International Conference on Carbon-Nanostructured Materials (Cnano '09), Santorini, Greece, October 4 – 8, 2009.
445. "Use of a Microfluidic Chip to Obtain Viscosity Results Over a Wide Shear Rate Range for Solutions of Polypeptide-Modified Hyaluronic Acid Chains or Actin Protein Fibers", M. Kandadai, J. J. Magda, J. W. Mays, et al., presented at the Society of Rheology Meeting, Madison, WI, October 21, 2009.
446. "Graft Copolymers: From Fundamental Research to Real World Applications", J. W. Mays, ACS Southern Chemist Award Address, Memphis, TN, December 3, 2009.
447. "Covalent Grafting of Polymers from Carbon Nanotubes", D. Baskaran and J. W. Mays, invited presentation at the ACS Composite Matrix Science Workshop, New Orleans, LA, February 8 – 9, 2010.
448. "Dilute Solution Properties and Branching Analysis of Polymers by Multi-Detector SEC", J. Mays, invited Exhibitor Seminar, Pittcon, Orlando, FL, March 1, 2010.

449. “Dilute Solution Properties and Branching Analysis of Polymers by Multi-Detector SEC”, J. Mays, invited Exhibitor Seminar, Pittcon, Orlando, FL, March 2, 2010.
450. “Novel Polymer Membranes with Charged and Hydrophilic Pathways”, J. W. Mays and S. Deng, presented at the Tennessee Technology Development Corporation Meeting, Nashville, TN, May 10-11, 2010.
451. “Novel Polymeric Materials Based on Poly(1,3-Cyclohexadiene)”, J. W. Mays, invited presentation at the Frontiers of Polymer Science Symposium held in honor of the Retirement of Professor Roderick Quirk, University of Akron, Akron, OH, May 13-14, 2010.
452. “An Approach to Evaluate the Stress-Strain and Hysteresis Behaviour of Thin and Transparent Elastomer Films at High Strains”, R. Schlegel, R. Weidisch, N. Hadjichristidis, J. W. Mays, H. Lorenz, and G. Heinrich, presented at the Symposium on Nanostructured Polymers/Nanocomposites, University of Halle, Halle, Germany, May 18 – 19, 2010.
453. “Tailored Synthesis and Characterization of Complex Polymers”, J. W. Mays, invited presentation in the Short Course on Techniques for Polymer Analysis and Characterization”, 23rd International Symposium on Polymer Analysis and Characterization (ISPAC), Pohang, South Korea, May 30, 2010.
454. “Synthesis and Characterization of Model Star-Branched Polyelectrolytes”, D. W. Holley and J. W. Mays, poster presentation at the 23rd International Symposium on Polymer Analysis and Characterization (ISPAC), Pohang, South Korea, May 31 – June 2, 2010.
455. “Superelastomers Based on Branched Block Copolymers”, J. W. Mays, invited presentation at Gwangju Institute for Science and Technology (GIST), Gwangju, South Korea, June 3, 2010.
456. “Superelastomers Based on Branched Block Copolymers”, J. W. Mays, invited presentation at Pusan National University, Busan, South Korea, June 4, 2010.
457. “Novel Polymeric Materials Based on Poly(1,3-Cyclohexadiene)”, J. W. Mays, invited presentation at Dow Chemical, Freeport, TX, July 29, 2010.
458. “Synthesis and Characterization of Star-Shaped Sodium Poly(Styrene sulfonate) by Atom transfer radical Polymerization of Ethyl Styrene Sulfonate”, Y. Li, X. Yu, J. Mays, and K. Hong, presented at the National Meeting of the American Chemical Society, Boston, MA, August 22-26, 2010; see also *Polymer Preprints*, 51(2), 261-262 (2010).
459. “Electrical Properties and Nanomorphology of Well-Defined Conjugated Polymer Brushes”, J. Chen, J. Alonzo, X. Yu, K. Hong, J. M. Messman, I. Ivanov, H. M. Meyer III, M. Banerjee, R. Rathore, J. W. Mays, and S. M. Kilbey II, presented at the National Meeting of the American Chemical Society, Boston, MA, August 22-26, 2010; see also *Polymeric Materials: Science & Engineering*, 103, 452 – 453 (2010).

460. "Synthesis and Characterization of Block Copolymers with Polythiophene Segments by the Combination of Atom Transfer Radical Polymerization and Kumada Catalyst-Transfer Polycondensation", X. Yu, Y. Li, H. M. O'Neil, S. M. Kilbey II, J. W. Mays, P. F. Britt, and K. Hong, presented at the National Meeting of the American Chemical Society, Boston, MA, August 22-26, 2010; see also *Polymeric Materials: Science & Engineering*, 103, 532 - 534 (2010).
461. "Ternary Phase Behavior of P3HT-b-PEO Compatibilized P3HT/PCBM Films", J. Chen, X. Yu, K. Hong, J. M. Messman, D. L. Pickel, K. Xiao, B. Sumpter, M. D. Dadmun, J. W. Mays, and S. M. Kilbey II, presented at the National Meeting of the American Chemical Society, Boston, MA, August 22-26, 2010; see also *Polymeric Materials: Science & Engineering*, 103, 441 - 442 (2010).
462. "Semifluorinated Amphiphilic Block Copolymers from Poly(isoprene-b-ethylene oxide) Copolymer Precursors", E. Kaditi, S. Pispas, K. Hong, and J. W. Mays, presented at the 6th International Conference on Modification, Degradation, and Stabilization of Polymers, Athens, Greece, September 5-9, 2010.
463. "Influence of Interface and Morphology on Mechanical Properties of Thermoplastic Elastomers with Complex Molecular Architectures", R. Schlegel, Y. Duan, R. Weidisch, J. W. Mays, N. Hadjichristidis, H. W. Siesler, and M. Stamm, presented at the 24th Conference of the European Colloid and Interface Society (ECIS), Prague, Czech Republic, September 5-10, 2010.
464. "High Performance Proton Conducting Membranes for Fuel Cells", J. Mays, presented at the Energy Partnership Forum, University of Tennessee, Knoxville, September 8, 2010.
465. "P3HT Block Polymers: Synthesis and Charge Mobility", X. Yu, K. Xiao, J. Chen, S. M. Kilbey II, J. W. Mays, P. F. Britt, and K. Hong, poster presentation at the Center for Nanophase Materials Sciences User Meeting, Oak Ridge, TN, September 14, 2010.
466. "Patterning and Optoelectrical Properties of Poly(para-phenylene) Brushes", J. Chen, J. Alonzo, X. Yu, K. Hong, J. Messman, I. Ivanov, H. M. Meyer III, M. Banerjee, R. Rathore, N. V. Lavrik, J. W. Mays, and S. M. Kilbey II, poster presentation at the Center for Nanophase Materials Sciences User Meeting, Oak Ridge, TN, September 14, 2010.
467. "Efficiency of Physical Crosslinking in Multigraft and Block-Graft Copolymers", R. Schlegel, R. Weidisch, N. Hadjichristidis, J. W. Mays, M. Kluppel, and G. Heinrich, presented at Polymeric Materials P.2010 Conference, Halle, Germany, September 15 - 17, 2010.
468. "Super-Elastomers from Multigraft Block Copolymers", J. W. Mays, invited presentation at Department of Chemistry, Wright State University, Dayton, OH, September 17, 2010.
469. "Novel Polymeric Materials Based on Poly(1,3-cyclohexadiene)", J. Mays, invited presentation at the Army Research Laboratory, Aberdeen, MD, September 21, 2010.
470. "Control of Molecular Architecture in Block Copolymers: Routes to Super-Elastomers", J. W. Mays, invited presentation at Department of Chemistry, University of West Florida, Pensacola, FL, October 15, 2010.

471. "Synthesis, Morphology and Properties of Branched Block Copolymers", J. W. Mays, invited presentation at the 8th Hellenic Polymer Society Symposium on Polymer Science and Technology, Hersonissos, Crete, Greece, October 24 - 29, 2010.
472. "Unusual Copolymerization Behavior of Living Poly(4-Vinylbenzocyclobutene) Anions in Non-Polar Solvents", P. Driva, J. W. Mays, and D. Baskaran, invited presentation at the 8th Hellenic Polymer Society Symposium on Polymer Science and Technology, Hersonissos, Crete, Greece, October 24 - 29, 2010.
473. "Multigraft Copolymers as Superelastic Materials – Influence of Molecular Architecture and Morphology", R. Schlegel, S. Holzer, R. Weidisch, N. Hadjichristidis, D. Uhrig, and J. W. Mays, invited presentation at the 8th Hellenic Polymer Society Symposium on Polymer Science and Technology, Hersonissos, Crete, Greece, October 24 - 29, 2010.
474. "General Route for Surface Polymer Grafting On Carbon Nanotubes", G. Sakellariou, D. Priftis, M. Gkikas, D. Baskaran, M. Pitsikalis, H. Iatrou, J. Mays, N. Hadjichristidis, poster presentation at the 8th Hellenic Polymer Society Symposium on Polymer Science and Technology, Hersonissos, Crete, Greece, October 24 - 29, 2010.
475. "Synthesis, Molecular and Morphological Characterization of Linear Triblock Terpolymers where One of the Blocks is Poly(Cyclohexadiene)", K. Misichronis, S. Rangou, E. Ashcroft, J. W. Mays, and A. Avgeropoulos, poster presentation at the 8th Hellenic Polymer Society Symposium on Polymer Science and Technology, Hersonissos, Crete, Greece, October 24 - 29, 2010.
476. "Fluorinated and Sulfonated Block Copolymers: Synthesis and Self-Assembly in Aqueous Solution", X. Wang, K. Hong, and J. W. Mays, oral presentation at the Macromolecular Materials Gordon Research Symposium, January 8 – 9, 2011, Ventura, CA.
477. "Fluorinated and Sulfonated Block Copolymers: Synthesis and Self-Assembly in Aqueous Solution", X. Wang, K. Hong, and J. W. Mays, poster presentation at the Macromolecular Materials Gordon Research Conference, January 9 – 14, 2011, Ventura, CA.
478. "Superelastomers™: New Thermoplastic Elastomers based on Multigraft Copolymers", J. Mays, presented at the Tennessee Next Conference, Nashville, TN, May 5-6, 2011.
479. "Unusual Morphologies in Fluorinated and Sulfonated block Copolymers", J. W. Mays, X. Wang, T. Huang, S. P. Gido, B. Sumpter, M. Goswami, poster presentation at the International Symposium on Polymer Analysis and Characterization, Torino, Italy, June 6 – 8, 2011.
480. "Effect of Block Composition and Molecular Weight on the Structure of Donut-Shaped Micelle", J. Jung, T. Chang, H. Huang, M. S. Rahman, J. Mays, poster presentation at the International Symposium on Polymer Analysis and Characterization, Torino, Italy, June 6 – 8, 2011.
481. "Characterizing Complex Architectures: Is GPC Adequate?", M. S. Rahman, H. Lee, X. Chen, T. Chang, R. Larson, and J. Mays, invited presentation at International Symposium on Ionic Polymerization, IP'11, Akron, OH, July 10 – 15, 2011.

482. "Synthesis and Characterization of Symmetric and Asymmetric H-Shaped Polybutadiene", poster presentation at International Symposium on Ionic Polymerization, IP'11, Akron, OH, July 10 – 15, 2011.
483. "Past, Present, and Future of SEC for Characterizing Polymers", J. Mays, invited talk at the Advanced Polymer Characterization Workshop, American Chemical Society National Meeting, Denver, CO, August 28 – September 1, 2011.
484. "Keeping Anionic Polymerization Alive After Fifty Years", J. W. Mays, Herman F. Mark Senior Scholar Award Address, American Chemical Society National Meeting, Denver, CO, August 28 – September 1, 2011.
485. "Control of Molecular Architecture in Block Copolymers: Routes to Superelastomers", J. Mays, Award Address, 2011 Outstanding Alumni Award, Department of Polymer Science, University of Akron, Akron, OH, October 7, 2011.
486. "Combined Synthesis, TGIC Characterization, and Rheological Study of "H" Polybutadienes, including the Effects of Synthetic Impurities", R. G. Larson, X. Chen, H. Lee, T. Chang, S. Rahman, J. Mays, presented at the Society of Rheology Meeting, Cleveland, OH, October 9-13, 2011.
487. "Control of Molecular Architecture in Block Copolymers: Routes to Superelastomers", J. Mays, invited lecture at Chinese Academy of Sciences, Beijing, China, October 13, 2011.
488. "Multi-Scale Models for Poly(1,3-cyclohexadiene) (PCHD) Polymer, Q. Wang, D. J. Keffer, S. Deng, and J. W. Mays, presented at the AIChE Meeting, Minneapolis, MN, October 16 – 21, 2011.
489. "Control of Molecular Architecture in Block Copolymers: Routes to Superelastomers", J. Mays, invited lecture at Roanoke College, Salem, VA, November 18, 2011.
490. "Superelastomers: New Thermoplastic Elastomers from Multigraft Copolymers", J. Mays, invited presentation, Nashville Section ACS, Belmont University, Nashville, TN, January 24, 2012.
491. Y. Chen, X. Wang, K. Zhang, K. Wooley, J. Mays, V. Percec, D. Pochan, presented at the American Physical Society Meeting, February 27 – March 2, 2012, Boston, MA. See also Bulletin of American Physical Society, 2012, 49, C1.
492. "Morphology of Charged Block Copolymers of Fluorinated Isoprene and Sulfonated Styrene", X. Wang, J. Chen, K. Hong, M. Goswami, B. Sumpter, and J. W. Mays, invited presentation at the National ACS Meeting, San Diego, CA, March 25 – 29, 2012. See also Polymer Preprints, 53(1), 23 – 24 (2012).
493. "Microstructure Effects on Self-Assembly of Polystyrene-b-Sulfonated polycyclohexadiene", X. Wang, H. Burrell, K. Hong, M. Kilbey, J. W. Mays, presented at the National ACS Meeting, San Diego, CA, March 25 – 29, 2012. See also Polymer Preprints, 53(1), 463 - 464 (2012).

494. "Thermal Stability of Fluorinated Polydienes Synthesized by Addition of Difluorocarbene", T. Huang, X. Wang, T. Malmgren, K. Hong, and J. W. Mays, presented at the 2012 TA Instruments User Meeting and Symposium, April 29 – May 2, 2012, New Orleans, LA.
495. "Structure, Thermal, and Rheological Properties of Polymer Composites Incorporating Crosslinked Polymer Nanoparticles", D. Baskaran, D. W. Holley, M. Ruppel, V. Urban, and J. W. Mays, invited presentation at the 2012 TA Instruments User Meeting and Symposium, April 29 – May 2, 2012, New Orleans, LA.
496. "Rheology as a Method of Inferring Long-Chain Branching", R. G. Larson, M. S. Rahman, H. Lee, J. Mays, T. Chang, and X. Chen, invited presentation at the IUPAC World Polymer Congress, Blacksburg, VA, June 24 – 29, 2012.
497. "Thermal Stability of Fluorinated Polydienes Synthesized by Addition of Difluorocarbene", T. Huang, X. Wang, T. Malmgren, K. Hong, and J. W. Mays, presented at the 25 International Symposium on Polymer Analysis and Characterization, Rolduc Abbey, Kerkrade, The Netherlands, June 10 – 13, 2012.
498. "Structure, Thermal, and Rheological Properties of Polymer Composites Incorporating Crosslinked Polymer Nanoparticles", D. Baskaran, D. W. Holley, M. Ruppel, V. Urban, and J. W. Mays, presented at the 25 International Symposium on Polymer Analysis and Characterization, Rolduc Abbey, Kerkrade, The Netherlands, June 10 – 13, 2012.
499. "Structure, Thermal, and Rheological Properties of Polymer Composites Incorporating Crosslinked Polymer Nanoparticles", D. Baskaran, D. W. Holley, M. Ruppel, V. Urban, and J. W. Mays, invited presentation at the Department of Materials Science and Engineering, University of Ioannina, Ioannina, Greece, June 19, 2012.
500. "Polymer-Based Multicomponent Materials: Research on Multiblock Copolymers", P. Driva, C. Dyer, F. Bates, M. Dadmun, B. Sumpter, M. Goswami, S. Sides, R. Kumar, J. Mays, presented at the Material Chemistry Principal Investigators' Meeting – 2012, July 15 – 18, 2012, Annapolis, MD.
501. "Polymer-Based Multicomponent Materials: Research on Nanocomposites", M. Ruppel, V. Urban, K. Schweizer, M. Dadmun, B. Sumpter, D. Baskaran, J. Mays, presented at the Material Chemistry Principal Investigators' Meeting – 2012, July 15 – 18, 2012, Annapolis, MD.
502. "Kinetic Control of Block Copolymer Self-Assembly into Multicompartment and Novel Geometry Nanoparticles", Y. Chen, X. Wang, J. Mays, K. Zhang, K. Wooley, and D. J. Pochan, presented at the American Chemical Society National Meeting, Philadelphia, PA, August 19 -23, 2012. See also: *Polymeric Materials: Science and Engineering*, 107, 353 (2012).
503. "Piezoelectric Properties of Non-Polar Block Copolymers", V. Urban, M. Ruppel, C. V. Pester, J. Mays, and A. Boeker, presented at the Meeting of the American Crystallographic Association, Boston, MA, July 28 – August 1, 2012.
504. "Complex Block Copolymers: Branching, Charges, and Stiffness", J. W. Mays, presented at Dow Electronic Chemicals, Marlborough, MA, August 24, 2012.

505. "Polymer Synthesis at and Beyond the Limits of Characterization: Limitations of SEC", J. W. Mays, invited Keynote Speaker, NIST Workshop on Macromolecular Separations-By-Design, Gaithersburg, MD, October 10 – 11, 2012.
506. "Branched Block Copolymers: Routes to Superelastomers", J. W. Mays, invited lecture at Northwestern Polytechnical University, Xi'an, China, November 13, 2012.
507. "Limitations of GPC as a Polymer Characterization Tool", J. W. Mays, invited lecture at Northwestern Polytechnical University, Xi'an, China, November 14, 2012.
508. "Broken Affinity in Near-Critical Block Copolymer Solutions in the Presence of an Electric Field", M. Ruppel, C. W. Pester, V. S. Urban, J. W. Mays, and A. Boeker, presented at the SAS2012 International Small-Angle Scattering Conference, November 18 – 23, 2012, Sydney, Australia.
509. "Optimization of Macromolecular Architecture in Styrene/Diene Block Copolymer Thermoplastic Elastomers", J. W. Mays, invited lecture at the DYNACOP Final Conference on Dynamics of Architecturally Complex Polymers: Current and Future Trends, Leeds, England, December 12-14, 2012.
510. "Kinetic Control of Block Copolymer Self-Assembly Into Multicompartment and Novel Geometry Nanoparticles", Y. Chen, X. Wang, K. Zhang, K. L. Wooley, J. W. Mays, and D. J. Pochan, poster presentation at the Gordon Research Conference on Macromolecular Materials, Ventura, CA, January 6 – 10, 2013.
511. "Optimization of Macromolecular Architecture in Styrene/Diene Block Copolymer Thermoplastic Elastomers", J. W. Mays, invited lecture at Tennessee Tech University, Department of Chemistry, February 22, 2013.
512. "Optimization of Macromolecular Architecture in Styrene/Diene Block Copolymer Thermoplastic Elastomers", J. W. Mays, invited lecture at Case Western Reserve University, March 8, 2013.

Academic performance indicators calculated in citation indexes will prevail over peer reviews. The whole spectrum of academic achievements will be reflected in columns of numbers entitled as "number of publications", "cumulative citation index", "h-index", "impact factor". The h-index is one of the scientometric indicators (excluding total publications and total citations) that have been recently treated as certain criteria of research paper (or thesis) quality and have become increasingly important, specifically in the context of various inspections initiated by the Ministry of Education and Science of the Russian Federation, being taken into consideration in mathematical modeling of quality management. citation ranking, and h-index scores of HCI researchers, we used a sample of 22 top scholars (11 principal investigators and 11 research fellows) from a large United Kingdom (UK) multi-institution Interdisciplinary Research Collaboration funded project known as EQUATOR (<http://www.equator.ac.uk/>). In addition to providing significantly more comprehensive coverage of relevant and high impact publications and generating more complete citation counts of individual HCI scholars, Scopus produces significantly higher h scores for these scholars than Web of Science does. The addition of Web of Science citation data to those of Scopus virtually does not alter the h scores of HCI researchers.