

Jimmy Mays

Distinguished Scientist
Joint Appointment
Macromolecular Nanosciences Group
Center for Nanophase Materials Sciences
Department of Chemistry
University of Tennessee at Knoxville
Knoxville, TN 37996
Phone: (865) 974-0747
Fax: (865) 974-9304
e-mail: jimnymays@utk.edu



Education

University of Akron	Polymer Science	Ph.D., 1984
University of Southern Mississippi	Polymer Science	B.S., 1979

Research Interests

Synthesis of linear and branched polymers and copolymers of controlled structure, especially via anionic polymerization; polymer molecular characterization via dilute solution techniques; polymeric surfaces and interfaces; polymeric biomaterials; charged polymers; block copolymer morphology; polymerization in room temperature ionic liquids; polymer nanotechnology and nanocomposites.

Professional Experience:

2002-present	Distinguished Professor of Chemistry, University of Tennessee
2002-present	Distinguished Scientist, Oak Ridge National Laboratory
2002-present	Adjunct Professor, University of Alabama at Birmingham (UAB)
2005 - 2008	Principal Technical Advisor, FUJIFILM Hunt Smart Surfaces, LLC
1995 - 2001	Professor of Chemistry, UAB, Birmingham, AL
1992 - 1995	Associate Professor of Chemistry, UAB, Birmingham, AL
1988 - 1992	Assistant Professor of Chemistry, UAB, Birmingham, AL
1983 - 1987	Research Chemist, Hercules Incorporated, Wilmington, DE

Professional and Synergistic Activities

2000-present	Member, American Chemical Society – Divisions of Polymer Chemistry and Polymeric Materials Science and Engineering
2005-2007	Awards Chairman, ACS Division of Polymer Chemistry
2001-2002	Editorial Advisory Board of Macromolecules
1994-present	Editorial Advisory Board of Journal of Applied Polymer Science
2004-present	Editorial Advisory Board of Polymer Bulletin
2005-present	Editorial Advisory Board of European Polymer Journal
1999-2004	Editor for European Polymer Journal
1990-present	Associate Editor of International Journal of Polymer Analysis and Characterization
2000-present	Co-Founder of Smart Surfaces, LLC, a company focused on non-toxic marine anti-fouling coatings. In April 2006, Fuji Hunt partnered with Smart Surfaces to create FUJIFILM Hunt Smart Surfaces, LLC.

- Member of Governing Board for International Symposium on Polymer Analysis and Characterization (ISPAC)
- Consultant (past or present) to various chemical and legal firms.
- Reviewer of over 40 papers/proposals annually for Journal of Applied Polymer Science, - Macromolecules, Journal of Polymer Science, Journal of Physical Chemistry, Journal of Chemical Physics, Journal of the American Chemical Society, Angewandte Chemie, National Science Foundation, Department of Defense, American Chemical Society/Petroleum Research Fund, Department of Energy, etc.

Honors and Awards

2007	Founding Chair, Polymers West Graduate Research Seminar.
2008	Highlands in Chemistry Lecturer, Virginia Tech.
2008	Distinguished Service Award, ACS Division of Polymer Chemistry.
2009	Bayer Lectures on Polymer Chemistry, Cornell University.
2009	Southern Chemist Award of ACS.
2010	Founding Fellow, ACS Division of Polymer Chemistry.
2010	Gold Medal of the Greek Polymer Society.
2010	Technology 2020 Inaugural Pathfinder Research Entrepreneur of the Year.
2011	Jump Litigation Award from CIBA Vision (in recognition of outstanding contributions in protection of their silicone hydrogel innovations).
2011	Herman Mark Senior Scholar Award, ACS Division of Polymer Chemistry.
2011	Distinguished Alumni Award, University of Akron.
2011	Fellow of American Chemical Society.

Selected Patents

1. "Polymer Formation in Room Temperature Ionic Liquids", J. W. Mays, L. Bu, R. D. Rogers, K. Hong, and H. Zhang, U. S. Patent No. 6,924,341, issued August 2, 2005.
2. "Bone Cement and a System for Mixing and Delivery Thereof", A. D. Puckett, J. Lemons, L. Bu, and J. W. Mays, U. S. Patent No. 7,259,210, issued August 21, 2007.
3. "Copolymers of Fluorinated Polydienes and Sulfonated Polystyrene", U. S. Patent No. 7,619,036, J. W. Mays, S. P. Gido, T. Huang, and K. Hong, issued November 17, 2009.
4. WO 2008/127215 A2, "Copolymers of Fluorinated Polydienes and Sulfonated Polystyrene".
5. "Polysiloxane-Based *In-situ* Polymer Blends – Compositions, Articles and Methods of Preparation Thereof", PCT/US2007016671.
6. "Diaphonic Acoustic Transduction Coupler and Ear Bud", U.S. Patent Application Publication # US 2009/0028356 A1, Jan. 29, 2009.
7. "Diaphonic Acoustic Transduction Coupler and Ear Bud", International Patent WO 2009/015210 A2, Jan. 29, 2009.
8. "Materials Comprising Polydienes and Hydrophilic Polymers and Related Methods", J. W. Mays, S. Deng, K. A. Mauritz, M. K. Hassan, and S. Gido, U. S. Patent Application Publication No. US 2009/0306295 A1, December 10, 2009.
9. Invention disclosure "Hyaluronic Acid Grafted with Hydrophobic Polypeptides for Use as Associative Thickeners", submitted to UT Research Foundation, January 2010.
10. "Multigraft Copolymers as Superelastomers", J. Mays, S. Gido, R. Weidisch, PCT application filed on September 30, 2011.

Past and Present Students, Postdocs, and Visiting Scientists:

Jian Zhou, Donna Frater, Stergios Pispas, Brad Bishop, Steve Harville, Dan Cook, Jianbo Li, Yuan-Ju Chen, Yunan Wan, Lujia Bu, Jinchuan Yang, David Uhrig, Kunlun Hong, Marinos Pitsikalis, Rozalia Mandras, Yiannis Poulos, Stella Sioula, Hermis Iatrou, Stella Paraskeva, Howard Bowman, Jonathan Woodward, Helen Ji, Anthony Karandinos, Dong Xie, Wei Wu, Walter Cristofoli, Qingye Zhou, Yingfan Wang, Brandon Farmer, Durairaj Baskaran, Manisha Chakraborty, Hongwei Zhang, Meichun Li, Wade Holley, Ming Liu, George Sakellariou, Dimitris Pantazis, Theodore Tsoukatos, Nick DePriest, Ravi Aggarwal, Ildoo Chung, Joseph Pickel, Jamie Messman, Hongliang Zhou, Xiao Ma, Apostolos Avgeropoulos, Tianzi Huang, Grigoris Mountrichas, Thrasyvoulos Aliferis, Xiang Yu, Suxiang Deng, Carlos de Anda, M. S. Rahman, Lihong He, Xiaojun Wang, Yu-Gang Li, Paraskevi Driva, Sachin Bobade, Justin Roop, Markus Ruppel, Vikram Srivastava, Christopher Hurley, Andrew Goodwin.

PEER-REVIEWED PUBLICATIONS AND BOOKS: (h index 47; over 6,900 citations)

1. "Properties and Chain Flexibility of Poly(tetrahydropyranyl-2-methacrylate)," N. Hadjichristidis, J.W. Mays, R.D. Vargo, and L.J. Fetters, *J. Polymer Science, Polymer Physics Ed.*, 21, 189-195 (1983).
2. "Properties and Chain Flexibility of Poly(dl-isobornylmethacrylate)," N. Hadjichristidis, J.W. Mays, W. Ferry, and L.J. Fetters, *J. Polymer Science, Polymer Physics Ed.*, 22, 1745-1751 (1984).
3. "Characteristic Ratios of Model Polydienes and Polyolefins," J.W. Mays, N. Hadjichristidis, and L.J. Fetters, *Macromolecules*, 17, 2723-2728 (1984).
4. "Molecular Characterization of Poly(2-methyl-1,3-pentadiene) and Its Hydrogenated Derivative, Atactic Polypropylene," Z. Xu, J.W. Mays, X. Chen, N. Hadjichristidis, F.C. Schilling, H.E. Bair, D.S. Pearson, and L.J. Fetters, *Macromolecules*, 18, 2560-2566 (1985).
5. "The Unperturbed Dimensions of Poly(2-chloroethylmethacrylate)," J.W. Mays, W. Ferry, N. Hadjichristidis, and L. J. Fetters, *Macromolecules*, 18, 2330-2331 (1985).
6. "Effects of Solvent and Temperature on the Unperturbed Dimensions of Polystyrene," J.W. Mays, N. Hadjichristidis, and L.J. Fetters, *Macromolecules*, 18, 2231-2236 (1985).
7. "Solution Properties and Chain Flexibility of Poly(p-tert-butylstyrene)," J.W. Mays, W.M. Ferry, N. Hadjichristidis, and L.J. Fetters, *Polymer*, 27, 129-132 (1986).
8. "Temperature Dependence of Unperturbed Dimensions for Stereoirregular 1,4-Polybutadiene and Poly(α -methylstyrene)," J.W. Mays, N. Hadjichristidis, W.W. Graessley, and L.J. Fetters, *J. Polymer Science, Polymer Physics Ed.*, 24, 2553-2564 (1986).
9. "Molecular Weights of Polyolefins by Vapor Pressure Osmometry at Elevated Temperatures," J.W. Mays and E.G. Gregory, *J. Applied Polymer Science*, 34, 2619-2622 (1987).
10. "Rheological Properties of Poly(1,3-Dimethyl-1- butenylene) and Model Atactic Polypropylene," L.B. Younghouse, L.J. Fetters, D.S. Pearson, and J.W. Mays, *Macromolecules*, 21, 478-484 (1988).
11. "Star-Branched Polystyrenes: An Evaluation of Solvent and Temperature Influences on Unperturbed Chain Dimensions," J.W. Mays, N. Hadjichristidis, and L.J. Fetters, *Polymer*, 29, 680-685 (1988).
12. "Characteristic Ratios of Polymethacrylates," J.W. Mays and N. Hadjichristidis, *Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics*, C28 (3&4), 371-401 (1988).
13. "Solution Properties and Chain Stiffness of Cyanoethylhydroxypropylcellulose," J.W. Mays, *Macromolecules*, 21, 3179-3183 (1988).
14. "Properties of Poly (α -methylstyrene) in Toluene: A Comparison of Experimental Results with Predictions of Renormalization Group Theory," J.S. Lindner, W.W. Wilson, and J.W. Mays, *Macromolecules*, 21, 3304-3312 (1988).
15. "Temperature Coefficients of Unperturbed Dimensions for Atactic Polypropylene and Alternating Poly(ethylene - propylene)," J.W. Mays and L.J. Fetters, *Macromolecules*, 22, 921-926 (1989).
16. "The Influence of Star-Core-Exclusion on Polymer-Polymer Miscibility," A.B. Faust, P.S. Sremcich, J.W. Gilmer, and J.W. Mays, *Macromolecules*, 22, 1250-1254 (1989).
17. "The Influence of Star Polymer Functionality on the Core Exclusion Exhibited in Melt Blends," P.S. Sremcich, A.B. Faust, J.W. Gilmer, and J.W. Mays, *Polymer Comm.*, 30, 146-149 (1989).

18. "Viscosity/Temperature Relationships for Linear and 12-arm Star Polystyrenes in Dilute Solution," M. Liouni, C. Touloupis, N. Hadjichristidis, and J.W. Mays, *J. Appl. Polym. Sci.*, 37, 2699-2708 (1989).
19. "Synthesis and Solution Properties of Polymethacrylates with Alicyclic Sidegroups," K. Kioulafa, J.W. Mays and N. Hadjichristidis, *Macromolecules*, 22, 2059-2062 (1989).
20. "Application of Extrapolation Procedures to Viscosity Data Below the Theta Temperature," J.W. Mays, N. Hadjichristidis and J.S. Lindner, *Polymer Comm.*, 30, 174-176 (1989).
21. "Synthesis of High Molecular Weight Near-Monodisperse Poly(4-methylstyrene) by Anionic Polymerization," J.W. Mays and N. Hadjichristidis, *Polymer Bulletin*, 22, 471-474 (1989).
22. "Viscosity - Temperature Relationships for Dilute Solutions of Linear and Star Polyisoprenes," M. Liouni, C. Touloupis, N. Hadjichristidis, and J.W. Mays, *Eur. Polym. J.*, 26, 479-483 (1990).
23. "Synthesis of Model Branched Polyelectrolytes," J.W. Mays, *Polym. Comm.*, 31, 170-172 (1990).
24. "Glass Transition Temperatures of Polymethacrylates with Alicyclic Side Groups," J.W. Mays, E. Siakali-Kioulafa, and N. Hadjichristidis, *Macromolecules*, 23, 3530-3531 (1990).
25. "Synthesis of Simple Graft Polyisoprene-graft-Polystyrene by Anionic Polymerization," J.W. Mays, *Polymer Bulletin*, 23, 247-250 (1990).
26. "Solution Properties and Characteristic Ratio of Near-Monodisperse Poly(tert-Butylmethacrylate)," A. Karandinos, J.W. Mays, and N. Hadjichristidis, *Polymer Bulletin*, 24, 251-254 (1990).
27. "The Chain Flexibility and Structure Relationships of Polymers, Part 1," Z. Xu, J.W. Mays, and N. Hadjichristidis, *Journal of Functional Polymer (China)*, 3, 1-12 (1990).
28. "The Chain Flexibility and Structure Relationships of Polymers, Part 2," Z. Xu, J.W. Mays, and N. Hadjichristidis, *Journal of Functional Polymer (China)*, 3, 81-96 (1990).
29. "Measurement of Polymer Molecular Weights by Osmometry," J.W. Mays and N. Hadjichristidis, in Modern Methods of Polymer Characterization, H.G. Barth and J.W. Mays, Eds., Wiley-Interscience, pp. 201-26 (1991).
30. "Dilute Solution Properties and Temperature Dependence of Unperturbed Chain Dimensions for Poly(p-tert-butylstyrene)," J.W. Mays, S. Nan, and D. Whitfield, *Macromolecules*, 24, 315-318 (1991).
31. "Hydrodynamic Properties of Polystyrene in Dilute n-Butyl Chloride Solution," M.E. Lewis, S. Nan, and J.W. Mays, *Macromolecules*, 24, 197-200 (1991).
32. "Solution Properties and Unperturbed Dimensions of Stereoirregular Poly(t-butyl methacrylates)," A. Karandinos, S. Nan, J.W. Mays, and N. Hadjichristidis, *Macromolecules*, 24, 2007-2010 (1991).
33. Modern Methods of Polymer Characterization, H.G. Barth and J.W. Mays, Eds. Wiley-Interscience, New York, (1991).
34. "Temperature Dependence of Chain Dimensions for Highly Syndiotactic Poly(methyl methacrylate)," J.W. Mays, S. Nan, W. Yunan, J. Li, and N. Hadjichristidis, *Macromolecules*, 24, 4469 - 4471 (1991).
35. "Polymer Characterization Using Dilute Solution Viscometry," J.W. Mays and N. Hadjichristidis, in Modern Methods of Polymer Characterization, H.G. Barth and J.W. Mays, Eds., Wiley-Interscience, pp. 227-69 (1991).
36. "Transport Properties of Polyisobutylene in Dilute Solution," J.W. Mays, J.S. Lindner, W.W. Wilson, N. Hadjichristidis, and L.J. Fetters, *Macromolecules*, 24, 3127-3135 (1991).

37. "Poly(alkylene phosphates): Synthetic Strategies," G.M. Gray, K.E. Branham, L.-H. Ho, J.W. Mays, P.C. Bharara, A. Hajipetrou, and J.B. Beal, Proceedings of Symposium on Inorganic Polymers, 33rd IUPAC International Symposium on Macromolecules, pp. 249-62 (1991).
38. "Subtheta Hydrodynamic Behavior of Poly(α -methylstyrene) in Cyclohexane," J.W. Mays, N. Hadjichristidis, W.W. Wilson, and J.S. Lindner, *Macromolecules*, 24, 6725-6729 (1991).
39. Chain Flexibility of Polymers: Characterization and Structural Relationships, Z. Xu, J.W. Mays, and N. Hadjichristidis, East China University of Chemical Technology Press, Shanghai, (1991).
40. "Hydrodynamic and Thermodynamic Properties of Poly(α -methylstyrene) in Dilute n-Butyl Chloride Solution," J.W. Mays, S. Nan, and M.E. Lewis, *Macromolecules*, 24, 4857-4860 (1991).
41. "An Analysis of Dilute Solution Properties of Polystyrene in 2-Butanone in Terms of the Hard-Sphere Model," M.E. Lewis, J.W. Mays, S. Nan, W. Yunan, J. Li. and N. Hadjichristidis, *Macromolecules*, 6686-6689 (1991).
42. "Conformational Characteristics of Some Model Polydienes and Polyolefins," P. Hattam, S. Gauntlett, J.W. Mays, N. Hadjichristidis, R.N. Young, and L.J. Fetters, *Macromolecules*, 24, 6199-6209 (1991).
43. "Unperturbed Dimensions and Temperature Coefficients of Polymethacrylates with Hydrocarbon Side Groups," N. Hadjichristidis, Z. Xu, and J.W. Mays, *Chimika Chronika, New Series (Greece)*, 20, 39-39 (1991).
44. "Manipulating Solid Surface Properties with Polymeric Agents", H. Watanabe, S.S. Patel, J.F. Argillier, E.E. Parsonage, J. Mays, N. Dan, and M. Tirrell, *Mat. Res. Soc. Symp. Proceedings*, 249, 255 (1992).
45. "Polymer Solution Properties of a Phenol-Formaldehyde Resole Resin by Gel Permeation Chromatography, Intrinsic Viscosity, Static Light Scattering and Vapor Pressure Osmometric Methods," M.G. Kim, W.L. Nieh, T. Sellers, Jr., W.W. Wilson, and J.W. Mays, *Industrial and Engineering Chemistry: Research*, 31, 973-979 (1992).
46. "Dilute Solution Properties of Branched Macromolecules," J.W. Mays and N. Hadjichristidis, *J. Appl. Polym. Sci., Applied Polym. Symp.*, 51, 55-72 (1992).
47. "Measurement of the Second Normal Stress Difference for Star Polymers with Highly Entangled Branches," C.S. Lee, J.J. Magda, K.L. DeVries and J.W. Mays, *Macromolecules*, 25, 4744-4750 (1992).
48. "Mark-Houwink-Sakurada Coefficients for Conventional Poly(methyl methacrylate) in Tetrahydrofuran", Y.-J. Chen, J. Li, N. Hadjichristidis and J.W. Mays, *Polymer Bulletin*, 30, 575-578 (1993).
49. "Molecular Weight and Molecular Weight Distribution," A.D. Puckett and J.W. Mays, in Handbook of Polyolefins, C. Vasile and R.B. Seymour, Eds., Marcel-Dekker, pp. 133-153 (1993).
50. "On the Birefringence of Symmetric Diblock Copolymers", J. Kim, I. Chin, B.A. Smith, T.P. Russell, and J.W. Mays, *Macromolecules*, 26, 5436 (1993).
51. "An Evaluation of the DAWN-B Light Scattering Unit from Wyatt Technology: Suggested Calibration, Normalization, and Clarification Procedures," Z. Xu, Y. Wan, J. Li, W.M. Rosenblum, and J.W. Mays, *J. Appl. Polym. Sci.*, 49, 967-973 (1993).
52. "Shear Induced Morphological Structures in Triblock Copolymers", F. A. Morrison, A. Nakatani, M. Muthukumar, C.C. Han, and J.W. Mays, *Macromolecules*, 26, 5271-73 (1993).
53. "A Direct Observation of Reptation at Polymer Interfaces", T.P. Russell, V.R. Deline, W.R. Dozier, G.P. Felcher, G. Agrawal, R.P. Wool, and J.W. Mays, *Nature*, 365, 235-37 (1993).

54. "Association of End Functionalized Block Copolymers. Light Scattering and Viscometric Studies", S. Pispas, N. Hadjichristidis, and J.W. Mays, *Macromolecules*, 27, 6307-6317 (1994).
55. "Dilute Solution Properties of Poly(tert-butyl styrene)," A. George, W.W. Wilson, J.S. Lindner, and J.W. Mays, *Polymer*, 35, 600 (1994).
56. "The Influence of Alkylene Spacers on Thermal and Conformational Properties of Poly(aryl methacrylates)", Y.-J. Chen, J.W. Mays, and N. Hadjichristidis, *J. Polym. Sci., Polym. Phys. Ed.*, 32, 715 (1994).
57. "Synthesis, Solution Properties, and Glass Transition Temperatures of Polymethacrylates with Alicyclylmethyl Side Groups," D. Pateropoulou, E. Siakali-Kioulafa, N. Hadjichristidis, S. Nan, and J.W. Mays, *Makromol. Chem.*, 195, 173-180 (1994).
58. "Synthesis and Characterization of Star Branched Poly(methyl methacrylate)," V. Efstratiadis, G. Tselikas, N. Hadjichristidis, J. Li, Y. Wan, and J.W. Mays, *Polymer International*, 33, 171-179 (1994).
59. "Hydrodynamic and Thermodynamic Properties of Well-Defined Polymers in Various Solvents", J.W. Mays, J.S. Lindner, L.J. Fetters, and N. Hadjichristidis, *J. Phys. Chem. Ref. Data*, 23, 619-640 (1994).
60. "Reptation at Interdiffusing Polymer Interfaces" G. Agrawal, R.P. Wool, W.D. Dozier, G.P. Felcher, T.P. Russell, and J.W. Mays, *Macromolecules*, 27, 4407-4409 (1994).
61. "Temperature-Induced Conformational Transitions in Flexible Polymer Chains in Solution: A Reevaluation", J.W. Mays, N. Hadjichristidis, E. Bitterlin, W.K. Nonidez, S. Nan, and L.J. Fetters, *Polymer*, 35, 4638-4647 (1994).
62. "Structure/Chain Flexibility Relationships of Polymers," Z. Xu, N. Hadjichristidis, J.W. Mays, and L.J. Fetters, *Advances in Polymer Science*, 120, 1-50 (1995).
63. "Free-Standing Black Films: A Model of Charged Polymer Brushes in Interaction", P. Guenoun, A. Schalchli, D. Sentenac, J.W. Mays, and J.J. Benattar, *Phys. Rev. Lett.*, 74, 3628-3631 (1995).
64. "Solution Properties and Lyotropic Mesophase Behavior of Cellulose Propionate," W. Casey, A. George, W.W. Wilson, J.S. Lindner, J.W. Mays, N. Hadjichristidis, and D.G. Peiffer, *J. Polym. Sci., Polym. Phys. Ed.*, 33, 1537-44 (1995).
65. "Hydrodynamic Properties of Model 3-Miktoarm Star Copolymers", H. Iatrou, E. Siakali-Kioulafa, N. Hadjichristidis, J. Roovers, and J.W. Mays, *J. Polym. Sci., Polym. Phys. Ed.*, 33, 1925-32 (1995).
66. "Third Virial Coefficients of Polystyrene in Different Theta Solvents", J. Li, Y. Wan, Z. Xu, and J.W. Mays, *Macromolecules*, 28, 5347-52 (1995).
67. "Dilute Solution Properties of Asymmetric Six-Arm Star Polystyrenes", C. Jackson, D.J. Frater, and J.W. Mays, *J. Polym. Sci., Polym. Phys. Ed.*, 33, 2159 (1995).
68. "Adsorption of Hydrophilic-Hydrophobic Block Copolymers on Silica from Aqueous Solutions", C. Amiel, M. Sikka, J.W. Schneider, M. Tirrell, and J.W. Mays, *Macromolecules*, 28, 3125-3134 (1995).
69. "A Shear-Induced Martensitic-Like Transformation in a Block Copolymer Melt", C.L. Jackson, K.A. Barnes, F.A. Morrison, J.W. Mays, A.I. Nakatani, and C.C. Han, *Macromolecules*, 28, 713-722 (1995).
70. "Synthesis and Characterization of Poly(vinylcyclohexane) Derivatives", M.D. Gehlsen, P. Weiman, F.S. Bates, S. Harville, J.W. Mays, and G.D. Wignall, *J. Polym. Sci., Polym. Phys. Ed.*, 33, 1527-36 (1995).
71. "Synthesis and Characterization of Substituted Poly(vinyl cyclohexane) Derivatives", M.D. Gehlsen, P.A. Weimann, F.S. Bates, J.W. Mays, and G.D. Wignall, *Annu. Tech. Conf. - Soc. Plast. Eng.*, 53 No. 2, 1955-59 (1995).

72. "The Effect of Solvent Quality on Pure and Mixed Brushes", C. Chen, N. Dan, S. Dhoot, M. Tirrell, J. Mays, and H. Watanabe, *Israel Journal of Chemistry*, 35, 41-47 (1995).
73. "Shear-Induced Changes in the Order-Disorder Transition Temperature and the Morphology of a Triblock Copolymer", C.L. Jackson, F.A. Morrison, A.I. Nakatani, J.W. Mays, M. Muthukumar, K.A. Barnes, and C.C. Han, Chapter 16 in *Flow-Induced Structure in Polymers* (A.I. Nakatani and M.D. Dadmun, Eds.), ACS Symposium Series 597, ACS Press, Washington, pp. 233-245 (1995).
74. "Morphological Transition in an I₂S Simple Graft Block Copolymer: From Folded Sheets to Folded Lace to Randomly Oriented Worms at Equilibrium", D.J. Pochan, S.P. Gido, S. Pispas, and J.W. Mays, *Macromolecules*, 29, 5099-5105 (1996).
75. "Miktoarm Star Polymers", H. Iatrou, Y. Tselikas, N. Hadjichristidis, and J.W. Mays, invited article for the *Polymeric Materials Encyclopedia*, Vol. 6, pp. 4398-4406, July 1996.
76. "Poly(*tert*-Butylstyrene): Synthesis, Properties, and Applications", J. Zhou, W.K. Nonidez, J.W. Mays, and N. Hadjichristidis, invited article for the *Polymeric Materials Encyclopedia*, Vol. 8, pp. 5680-5682, July 1996.
77. "Size Exclusion Chromatography with Multiple Detectors: Solution Properties of Linear Chains of Varying Flexibility in Tetrahydrofuran", C. Jackson, Y.-J. Chen, and J.W. Mays, *J. Appl. Polym. Sci.*, 61, 865-874 (1996).
78. "Fluorescence Study of Hydrophobically Modified Polyelectrolytes in Aqueous Solution: Effect of Micellization", P. Guenoun, H.T. Davis, L. Lipsky, M. Tirrell, and J.W. Mays, *Langmuir*, 12, 1425-27 (1996).
79. "Interdiffusion of Polymers Across Interfaces", G. Agrawal, R.P. Wool, W.D. Dozier, G.P. Felcher, J. Zhou, S. Pispas, J.W. Mays, and T.P. Russell, *J. Polym. Sci., Polym. Phys. Ed.*, 34, 2919-2940 (1996).
80. "Shear-Induced Shifts in the Order-Disorder Transition Temperature in a Triblock Copolymer Melt", A.I. Nakatani, F.A. Morrison, J.F. Douglas, J.W. Mays, C.L. Jackson, M. Muthukumar, and C.C. Han, *J. Chem. Phys.*, 104, 1589-99 (1996).
81. ""Effects of Ionic Strength and Counterion Valency on Adsorption of Hydrophobically Modified Polyelectrolytes", Y. Zhang, M. Tirrell, and J.W. Mays, *Macromolecules*, 29, 7299-7301 (1996).
82. "Model Mono-, Di- and Tri- ω -Functionalized Three Arm Star Polybutadienes. Association Behavior in Dilute Solution by Dynamic Light Scattering and Viscometry", M. Pitsikalis, N. Hadjichristidis, and J.W. Mays, *Macromolecules*, 29, 179-84 (1996).
83. "Shear-Induced Changes in the Order-Disorder Transition Temperature and the Morphology of a Triblock Copolymer", C.L. Jackson, F.A. Morrison, J.W. Mays, M. Muthukumar, A.I. Nakatani, and C.C. Han, *J. Macromol. Sci., Phys. Ed.*, B35 (3 & 4), 489-503 (1996).
84. "Aqueous Micellar Solutions of Hydrophobically Modified Polyelectrolytes", P. Guenoun, H.T. Davis, M. Tirrell, and J.W. Mays, *Macromolecules*, 29, 3965-69 (1996).
85. "Bulk Morphologies of Microphase Separated A₂B Simple Graft Block Copolymers", D.J. Pochan, S.P. Gido, S. Pispas, J.W. Mays, A.J. Ryan, P. Fairclough, N. Terrill, and I.W. Hamley, *Macromolecules*, 29, 5091-5098 (1996).
86. "Dilute Solution Properties of Randomly Branched Poly(methylmethacrylate)", C. Jackson, Y.-J. Chen, and J.W. Mays, *J. Appl. Polym. Sci.*, 59, 179-88 (1996).
87. "End-Functionalized Block Copolymers of Styrene and Isoprene. A DSC Study", S. Pispas, N. Hadjichristidis, and J.W. Mays, *Polymer*, 37, 3989-91 (1996).

88. "Micellization of ω -Functionalized Poly(styrene-*b*-isoprene) Copolymers in *n*-Decane)", S. Pispas, S. Allorio, N. Hadjichristidis, and J.W. Mays, *Macromolecules*, 29, 2903-08 (1996).
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