

DIMITRIS VLASSOPOULOS (dvlasso@iesl.forth.gr)

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### **Biographical Information**

Born in Athens, Greece, 22/10/1960. Married, two sons. Greek citizenship.

### **Education**

Diploma, Chemical Engineering, National Technical University, Athens, Greece, 1983.

M.A , Chemical Engineering, Princeton University, Princeton, N.J., USA, 1986.

Ph.D., Chemical Engineering, Princeton University, Princeton, N.J., USA, 1990.

### **Appointments and Honors**

1. FORTH Prize for Basic Research, 2009.
  2. The Society of Rheology Publication Award, 2011
  3. K. Weissenberg Award, European Society of Rheology, 2015.
  4. Fellow, The Society of Rheology, 2018.
  5. E. C. Bingham Medal, The Society of Rheology, 2019.
  6. Fellow, American Physical Society, 2019.
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1. Member of the Editorial Board, *Rheologica Acta* , 2000-2006, 2011-present.
  2. Member of the International Editorial Advisory Board, *Soft Matter*, 2005-2014.
  3. Member of the Editorial Board, *Journal of Rheology*, 2006-.
  4. European Editor, *Rheologica Acta* , 2006-2011.
  5. Member of the working party ‘Non-Newtonian Fluid Mechanics and Rheology’ of the International Union for Theoretical and Applied Mechanics (IUTAM), 2008-2018.
  6. Member of the combined Editorial Advisory Board, *Macromolecules* and *ACS Macro Letters*, 2014-2017.
  7. Associate Editor, *Soft Matter* (2015-).
  8. Member of the Editorial Advisory Board, *Physics of Fluids*, 2016-.
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1. Visiting Scholar, *Kavli Institute for Theoretical Physics (KITP)*, *University of California*, Santa Barbara, CA, USA, April 2002 ; March 2018.
  2. International Visiting Scholar, *University of Delaware*, Newark, Delaware, USA, September-October 2002.
  3. Visiting Professor, *University of Delaware, Department of Chemical Engineering*, Newark, Delaware, USA, August-December 2005.
  4. Michelin Visiting Professor, *Ecole Supérieure de Physique et Chimie Industrielles (ESPCI ParisTech), Laboratoire Matière Molle et Chimie*, Paris, France, August-December, 2009 ; June-July, 2014.
  5. Visiting Professor, *ETH Zürich, Department of Materials* (Polymer chemistry / Polymer physics), September 2013 – January 2014.
  6. Honorary Member, Polymer Chemistry Group, *ETH Zürich, Department of Materials*, Zurich, Switzerland, December 2013.
  7. Visiting Professor, *Department of Chemical and Biochemical Engineering, Technical University of Denmark (DTU)*, Lyngby, Denmark, March-May, 2016 ; June 2017 ; June 2018 ; June, November 2019.
  8. Visiting Professor, *Institut National des Sciences Appliquées (INSA), MATEIS*, Lyon, France, September 2017.
  9. Visiting Professor, *Bio and Soft Matter, Institute of Condensed Matter and Nanosciences, Université catholique de Louvain*, Belgium, July & September 2018.
  10. Visiting Professor, *Indian Institute of Technology*, Kanpur, India, December 2018.
  11. Paris Science Chair, Visiting Professor, *Ecole Supérieure de Physique et Chimie Industrielles (ESPCI ParisTech), Laboratoire Matière Molle et Chimie*, Paris, September 2019.
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1. President, *Hellenic Society of Rheology (HSR)*, 1998-2000
  2. Co-opted Member of the Executive Council of the *European Society of Rheology* (2002-2005).
  3. Member at Large, Executive Committee of *The Society of Rheology* (October 2013-October 2015).

### **Work Experience**

1. *Foundation for Research & Technology - Hellas (FO.R.T.H.)*, Heraklion, Crete, Greece.  
Institute of Electronic Structure & Laser (I.E.S.L.), Affiliated Faculty (2002-);  
Associate Scientist (1998-2002); Assistant Scientist (1995-1998); Contract Researcher (1992-1995).
2. *University of Crete*, Heraklion, Crete, Greece.  
Department of Materials Science & Technology, Professor (2007-); Associate Prof. (2002-2007).  
Department of Physics, Adjunct Associate Professor (Visiting Professorship 407), 1998-2002.
3. *Mobil Research & Development Corporation*, Paulsboro, N.J., USA (1990-1991).

- Senior Staff Engineer, Paulsboro Research Laboratory, Process Research and Technical Service Division.
4. *Princeton University*, Princeton, N. J., USA (1986-1989).  
Department of Chemical Engineering, Assistant in Instruction and Research Assistant (part of Ph.D work)
  5. *Metelco S.A.*, Metamorphosis Attikis, Greece.  
Technical Consultant, printed circuit boards (1992); Production Engineer (1983-1984, summer 1981).
  6. *Military Service (mandatory): Greek Navy*, Salamis Naval Base, Greece (1991-1992).  
Scientific Officer, Center for Fuel Distribution, Office of Technical Planning, Amphiali.

#### **Publications in Refereed Journals**

1. D. Vlassopoulos and W.R. Schowalter,  
"Characterization of the Non-Newtonian Flow Behavior of Drag-Reducing Fluids",  
*J. Non-Newtonian Fluid Mech.*, **49**, 205-250 (1993).
2. D. Vlassopoulos and W.R. Schowalter,  
"Steady Viscometric Properties and Characterization of Very Dilute Polymer Solutions",  
*J. Rheology*, **38**, 1427-1446 (1994).
3. D. Vlassopoulos and W. R. Schowalter,  
"Laser Doppler Velocimetry Measurements of Steady Streaming Flow of Newtonian and Viscoelastic Fluids",  
*Expts. Fluids*, **20**, 21-28 (1995).
4. D. Vlassopoulos, and S.G. Hatzikiriakos,  
"A Generalized Giesekus Constitutive Model with Retardation Time and its Application to the Spurt Effect",  
*J. Non-Newtonian Fluid Mech.*, **57**, 119-136 (1995).
5. G. Meier, D. Vlassopoulos, and G. Fytas,  
"Phase Separation and Glass Transition Intervention in a Polymer Blend",  
*Europhys. Lett.*, **30**, 325-330 (1995).
6. G. Floudas, D. Vlassopoulos, M. Pitsikalis, N. Hadjichristidis, and M. Stamm,  
"Order-Disorder Transition and Ordering Kinetics in Binary Copolymer Mixtures of Styrene and Isoprene",  
*J. Chem. Phys.*, **104**, 2083-2088 (1996).
7. S.G. Hatzikiriakos and D. Vlassopoulos,  
"Brownian Dynamics Simulations of Shear Thickening in Dilute Polymer Solutions",  
*Rheol. Acta*, **35**, 274-287 (1996).
8. G. Voyiatzis, G. Petekidis, D. Vlassopoulos, E.I. Kamitsos, and A. Bruggeman,  
"Molecular Orientation of Polyester Films Using Polarized Laser Raman and FTIR Spectroscopies and X-Ray Diffraction",  
*Macromolecules*, **29**, 2244-2252 (1996).
9. G. Fytas, D. Vlassopoulos, G. Meier, A. Likhtman, and A.N. Semenov,  
"Fluctuation Induced Anisotropic Pattern Relaxation in Critical Polymer Blends",  
*Phys. Rev. Lett.*, **76**, 3586-3589 (1996).
10. M. Kapnistos, D. Vlassopoulos and S. H. Anastasiadis,  
"Determination of Both the Binodal and Spinodal Curves by Shear Rheology",  
*Europhys. Lett.*, **34**, 513-518 (1996).
11. U. Tiesler, M. Rehn, M. Ballauff, G. Petekidis, D. Vlassopoulos, G. Maret and H. Kremer,  
"Analysis of the Conformation of a Stiff-Chain Polyester by Measurements of the Magnetic Birefringence in Solution",  
*Macromolecules*, **29**, 6832-6836 (1996).
12. T. Jian, D. Vlassopoulos, G. Fytas, T. Pakula, and W. Brown,  
"Coupling of Concentration Fluctuations to Viscoelasticity in Highly Concentrated Polymer Solutions",  
*Colloid Polym Sci*, **274**, 1033-1043 (1996).
13. M. Kapnistos, A. Hinrichs, D. Vlassopoulos, S. H. Anastasiadis, A. Stammer, and B. A. Wolf,  
"Rheology of a LCST Blend in the Homogeneous, Phase-Separated and Transitional Regimes",  
*Macromolecules*, **29**, 7155-7163 (1996).
14. D. Vlassopoulos,  
"Rheology of LCST Polymer Blends: Poly(styrene-co-maleic anhydride) / Poly(methyl methacrylate)",  
*Rheol. Acta*, **35**, 556-566 (1996).
15. G. Petekidis, D. Vlassopoulos, P. Galda, M. Rehn, and M. Ballauff,  
"Determination of the Chain Conformation of Stiff Polymers by Depolarized Rayleigh Scattering in solution",  
*Macromolecules*, **29**, 8948-8953 (1996).
16. G. Fytas, S. H. Anastasiadis, R. Seghrouchni, D. Vlassopoulos, J. Li, B. Factor, G. Petekidis, W. Theobald, and C. Toprakcioglou,

- "Probing Collective Motions of Terminally Anchored Polymers",  
*Science*, **274**, 2041-2044 (1996).
17. G. Petekidis, D. Vlassopoulos, G. Fytas, N. Kountourakis, and S. Kumar,  
"Association Dynamics in Solutions of Hairy-Rod Polymers",  
*Macromolecules*, **30**, 919-931 (1997).
  18. D. Vlassopoulos, A. Koumoutsakos, S. H. Anastasiadis, S. G. Hatzikiriakos, and P. Englezos,  
"Rheology and Phase Separation in a Model UCST Polymer Blend",  
*J. Rheol.*, **41**, 739-755 (1997).
  19. S. G. Hatzikiriakos, I. B. Kazatchkov, and D. Vlassopoulos,  
"Interfacial Phenomena During the Capillary Extrusion of Metallocene Polyethylenes",  
*J. Rheol.*, **41**, 1299-1316 (1997).
  20. D. Vlassopoulos, T. Pakula, G. Fytas, J. Roovers, K. Karatasos, and N. Hadjichristidis,  
"Ordering and Viscoelastic Relaxation in Multiarm Star Polymer Melts",  
*Europhys. Lett.*, **39**, 617-622 (1997).
  21. S. G. Hatzikiriakos, G. Heffner, D. Vlassopoulos, and K. Christodoulou,  
"Rheological Characterization of PET Resins using a Multimode Phan Thien - Tanner Constitutive Relation",  
*Rheol. Acta*, **36**, 568-578 (1997).
  22. G. C. Georgiou, and D. Vlassopoulos,  
"On the Stability of the Shear Flow of a Johnson-Segalman Fluid",  
*J. Non-Newtonian Fluid Mech.*, **75**, 77-97 (1998).
  23. G. Petekidis, D. Vlassopoulos, G. Fytas, and G. Fleischer,  
"Dynamics of Hairy-Rod Polymers: Semidilute Regime",  
*Macromolecules*, **31**, 1406-1417 (1998).
  24. K. Karatasos, G. Vlachos, D. Vlassopoulos, G. Fytas, G. Meier, and A. DuChesne,  
"Segmental Dynamics and Incompatibility in Hard/Soft Polymer Blends",  
*J. Chem. Phys.*, **108**, 5997-6005 (1998).
  25. R. Seghrouchni, G. Petekidis, D. Vlassopoulos, G. Fytas, A. N. Semenov, J. Roovers, and G. Fleischer,  
"Controlling the Dynamics of Soft Spheres: From Polymeric to Colloidal Behavior",  
*Europhys. Lett.*, **42**, 271-276 (1998).
  26. K. Andrikopoulos, D. Vlassopoulos, G. Voyiatzis, E. Yiannopoulos, and E. I. Kamitsos,  
"Molecular Orientation of Hairy-Rod Polyesters: Effects of Side-Chain Length",  
*Macromolecules*, **31**, 5465-5473 (1998).
  27. D. Chopra, D. Vlassopoulos, and S. G. Hatzikiriakos,  
"Shear-Induced Mixing and Demixing in Poly(styrene-co-maleic anhydride) / Poly(methyl methacrylate) Blends",  
*J. Rheol.*, **42**, 1227-1247 (1998)
  28. G. Petekidis, D. Vlassopoulos, G. Fytas, R. Rulken, and G. Wegner,  
"Orientation Dynamics and Correlations in Hairy Rod Polymers",  
*Macromolecules*, **31**, 6129-6138 (1998)
  29. G. Petekidis, D. Vlassopoulos, G. Fytas, R. Rulken, G. Wegner, and G. Fleischer,  
"Diffusion Dynamics in Hairy-Rod Polymers in Concentrated Solutions",  
*Macromolecules*, **31**, 6139-6147 (1998).
  30. E. Mitsoulis, S. G. Hatzikiriakos, K. Christodoulou, and D. Vlassopoulos,  
"Sensitivity Analysis of the Bagley Correction to Shear and Extensional Rheology",  
*Rheol. Acta*, **37**, 438-448 (1998).
  31. T. Pakula, D. Vlassopoulos, G. Fytas, and J. Roovers,  
"Structure and Dynamics of Melts of Multiarm Polymer Stars"  
*Macromolecules*, **31**, 8931-8940 (1998).
  32. D. Vlassopoulos, I. Chira, B. Loppinet, and P. T. McGrail,  
"Gelation Kinetics in Thermoplastic / Thermoset Polymer Blends"  
*Rheol. Acta*, **37**, 614-623 (1998).
  33. M. M. Fyrillas, G. C. Georgiou, and D. Vlassopoulos,  
"Time-Dependent Plane Poiseuille Flow of a Johnson-Segalman Fluid",  
*J. Non-Newtonian Fluid Mech.*, **82**, 105-123 (1999).
  34. A. N. Semenov, D. Vlassopoulos, G. Fytas, G. Vlachos, G. Fleischer, and J. Roovers,  
"Dynamic Structure of Interacting Spherical Brushes"  
*Langmuir*, **15**, 358-368 (1999).
  35. D. Chopra, C. Haynes, S. G. Hatzikiriakos, and D. Vlassopoulos,  
"Modeling the Shear-Induced Structural Changes in Polymeric Fluids",  
*J. Non-Newtonian Fluid Mech.*, **82**, 367-385 (1999)

36. A. N. Semenov, A. E. Likhtman, D. Vlassopoulos, G. Fytas, and K. Karatasos, "Depolarized Light Scattering from Critical Polymer Blends", *Makromol. Theory Simul.*, **8**, 179 (1999)
37. D. Vlassopoulos, G. Fytas, J. Roovers, T. Pakula, and G. Fleischer, "Ordering and Dynamics of Soft Spheres in Melt and Solution", *Faraday Discuss.*, **112**, 225-235 (1999).
38. M. Kapnistos, A. N. Semenov, D. Vlassopoulos and J. Roovers, "Viscoelastic Response of Hyperstar Polymers in the Linear Regime", *J. Chem. Phys.*, **111**, 1753-1759 (1999).
39. D. Vlassopoulos, T. Pakula, G. Fytas, M. Pitsikalis, and N. Hadjichristidis, "Controlling the Structure and Dynamic Response of Star Polymers by Selective Telechelic Functionalization", *J. Chem. Phys.*, **111**, 1760-1764 (1999).
40. L. Hilliou, D. Vlassopoulos, and M. Rehahn, "Structural Rearrangements in Hairy-Rod Polymer Solutions Undergoing Shear", *Rheol. Acta.*, **38**, 514-527 (1999).
41. R. Sigel, S. Pispas, D. Vlassopoulos, N. Hadjichristidis, and G. Fytas, "Structural Relaxation of Dense Suspensions of Soft Giant Micelles", *Phys. Rev. Lett.*, **83**, 4666-4669 (1999).
42. R. Sigel, S. Pispas, N. Hadjichristidis, D. Vlassopoulos and G. Fytas, "Dynamic Structure Factor of Diblock Copolymer Solutions in the Disordered State. I. Far from the Ordering Transition", *Macromolecules*, **32**, 8447-8453 (1999).
43. M. M. Fyrillas, G. C. Georgiou, D. Vlassopoulos, and S. G. Hatzikiriakos, "A Mechanism for Extrusion Instabilities in Polymer Melts", *Polym. Eng. Sci.*, **39**, 2498-2504 (1999).
44. S. G. Hatzikiriakos, M. Kapnistos, D. Vlassopoulos, C. Chevillard, H. H. Winter, and J. Roovers, "Relaxation Time Spectra of Star Polymers", *Rheol. Acta*, **39**, 38-43 (2000).
45. D. Chopra, D. Vlassopoulos, and S. G. Hatzikiriakos, "Nonlinear Rheological Response of Phase Separating Polymer Blends: Poly(styrene-co-maleic anhydride) / Poly(methyl methacrylate)", *J. Rheol.*, **44**, 27-45 (2000).
46. L. Hilliou, D. Vlassopoulos and M. Rehahn, "Dynamics of Hairy-Rod Polymer Solutions in Simple Shear Flow: Aging Effects" *Macromolecules*, **33**, 3105-3110 (2000)
47. J. Higgins, H. Gerard, D. Vlassopoulos, R. Horst and B. A. Wolf, "Shear Influences on Polymer Blends: Experimental, Theoretical Approaches and Technical Implications", *Macromol. Symp.*, **149**, 165-170 (2000).
48. M. Bockstaller, W. Köhler, G. Wegner, D. Vlassopoulos and G. Fytas, "Hierarchy of Macromolecular Association in Aqueous Solutions of Amphiphilic Rigid Polyelectrolytes", *Macromolecules*, **33**, 3951-3953 (2000).
49. G. Fleischer, G. Fytas, D. Vlassopoulos, J. Roovers, and N. Hadjichristidis, "Self-Diffusion of Multiarm Star Polymers far from and near the Ordering Transition", *Physica A*, **280**, 266-278 (2000).
50. B. Loppinet, R. Sigel, A. Larsen, G. Fytas, D. Vlassopoulos and G. Liu, "Structure and Dynamics in Dense Suspensions of Micellar Nanocolloids", *Langmuir*, **16**, 6480-6484 (2000).
51. D. Vlassopoulos, G. Fytas, B. Loppinet, F. Isel, P. Lutz and H. Benoit, "Polymacromonomers: Structure and Dynamics in Non-Dilute Solutions, Melts and Mixtures", *Macromolecules*, **33**, 5960-5969 (2000).
52. D. Vlassopoulos, M. Kapnistos, G. Fytas, and J. Roovers, "Structure and Viscoelasticity of Interacting Spherical Brushes", *Macromol. Symp.*, **158**, 149-154 (2000).
53. K. Christodoulou, S. G. Hatzikiriakos, and D. Vlassopoulos, "Stability Analysis of Film Casting for PET Resins Using a Multimode Phan Tien – Tanner Constitutive Equation", *J. Plastic Film & Sheeting*, **16**, 312-332 (2000).
54. M. Kapnistos, D. Vlassopoulos, G. Fytas, K. Mortensen, G. Fleischer, and J. Roovers,

- “Reversible Thermal Gelation in Soft Spheres”,  
*Phys. Rev. Lett.*, **85**, 4072-4075 (2000).
55. G. Petekidis, D. Vlassopoulos, G. Fytas, G. Fleischer, and G. Wegner,  
“Dynamics of Wormlike Polymers in Solution: Self-Diffusion and Zero-Shear Viscosity”,  
*Macromolecules*, **33**, 9630-9640 (2000).
  56. D. Vlassopoulos, M. Pitsikalis, and N. Hadjichristidis,  
“Linear Dynamics of End-Functionalized Polymer Melts: Linear Chains, Stars and Blends”,  
*Macromolecules*, **33**, 9740-9746 (2000).
  57. A. Aggeli, G. Fytas, D. Vlassopoulos, T. C. B. McLeish, P. Mawer, and N. Boden,  
“Structure and Dynamics of Self-Assembling  $\beta$ -Sheet Peptide Tapes by Dynamic Light Scattering”,  
*Biomacromolecules*, **2**, 378-388 (2001).
  58. D. Vlassopoulos, G. Fytas, S. Pispas, and N. Hadjichristidis,  
“Spherical polymeric brushes viewed as soft colloidal particles: zero-shear viscosity”, invited article  
*Physica B*, **296**, 184-189 (2001).
  59. E. Mitsoulis, S. G. Hatzikiriakos, K. Christodoulou, and D. Vlassopoulos,  
“Some Comments on ‘Computational Analysis of Techniques to Determine Extensional Viscosity from Entrance Flows’ [Rheol. Act 39, 138-151 (2000)]”, Letter to the Editor,  
*Rheol. Acta*, **40**, 401-402 (2001).
  60. L. Hilliou, D. Vlassopoulos, and M. Rehahn,  
“Dynamics of Nondilute Solutions of Hairy-Rod Polymers in Simple Shear Flow”,  
*Macromolecules*, **34**, 1742-1750 (2001).
  61. A. Wewerka, K. Viertler, D. Vlassopoulos, and F. Stelzer,  
“Structure and Rheology of Model Side-Chain Liquid Crystalline Polymers with Varying Mesogen Length”,  
*Rheol. Acta*, **40**, 416-425 (2001).
  62. K. Viertler, A. Wewerka, F. Stelzer, G. Fytas, and D. Vlassopoulos,  
“Macromolecular Anisotropic Association in Isotropic Solutions of a Liquid Crystal Side Chain Polymer”,  
*Macromol. Chem. Phys.*, **202**, 3174-3179 (2001).
  63. M. Bockstaller, W. Köhler, G. Wegner, D. Vlassopoulos, and G. Fytas,  
“Levels of Structure Formation in Aqueous Solutions of Anisotropic Association Colloids Consisting of Rodlike Polyelectrolytes”,  
*Macromolecules*, **34**, 6359-6366 (2001).
  64. D. Vlassopoulos, G. Fytas, T. Pakula, and J. Roovers,  
“Multiarm Star Polymers Dynamics”, invited review article  
*J. Phys. C: Condensed Matter*, **13**, R855-R876 (2001)
  65. B. Loppinet, E. Stiakakis, D. Vlassopoulos, G. Fytas, and J. Roovers,  
“Reversible Thermal Gelation in Star Polymers: An Alternative Route to Jamming of Soft Matter”,  
*Macromolecules*, **34**, 8216-8223 (2001).
  66. D. Chopra, M. Kontopoulou, D. Vlassopoulos, and S. G. Hatzikiriakos,  
“Effect of Maleic Anhydride Content on the Rheology and Phase Behavior of Poly(styrene-co-maleic anhydride) / Poly(methyl methacrylate) Blends”,  
*Rheol. Acta*, **41**, 10-24 (2002).
  67. G. Fytas, H. G. Nothofer, U. Scherf, D. Vlassopoulos, and G. Meier,  
“Structure and Dynamics of Nondilute Polyfluorene Solutions”  
*Macromolecules*, **35**, 481-488 (2002).
  68. D. Vlassopoulos, T. Pakula, and J. Roovers,  
“Structure and Dynamics of Irregular Multiarm Star Polymers”, invited article  
*Condensed Matter Physics*, **5**, 105-116 (2002).
  69. S. Houli, H. Iatrou, N. Hadjichristidis, and D. Vlassopoulos,  
“Synthesis and Viscoelastic Properties of Model Dumbbell Copolymers Consisting of a Polystyrene Connector and Two 32-Arm Star Polybutadienes”,  
*Macromolecules*, **35**, 6592-6597 (2002).
  70. E. Stiakakis, D. Vlassopoulos, C. N. Likos, J. Roovers, and G. Meier,  
“Polymer-Mediated Melting in Ultrasoft Colloidal Gels”  
*Phys. Rev. Lett.*, **89**, 208302-1-4 (2002).
  71. E. Stiakakis, D. Vlassopoulos, B. Loppinet, J. Roovers, and G. Meier,  
“Kinetic Arrest of Crowded Soft Spheres in Solvents of Varying Quality”  
*Phys. Rev. E*, **66**, 051804-1-9 (2002).
  72. L. Hilliou and D. Vlassopoulos,  
“Time-Periodic Structures and Instabilities in Shear Thickening Polymer Solutions”, invited article  
*Ind. Eng. Chem. Res.*, **41**, 6246-6255 (2002).

73. D. Chopra, M. Kontopoulou, D. Vlassopoulos, and S. G. Hatzikiriakos, "Interrelations Between Rheology and Phase Behavior in Partially Miscible Blends: The Case of Polydimethylsiloxane / Polyethylmethylsiloxane (PDMS/PEMS)", invited article *Can. J. Chem. Eng.*, **80**, 1057-1064 (2002).
73. D. Vlassopoulos, T. Terakawa, and G. G. Fuller, "Microstructural Changes of a Model Binary Polymer Blend in Simple Shear Flow Across the Phase Boundary", *J. Rheol.*, **47**, 143-161 (2003).
75. A. Miros, D. Vlassopoulos, A. E. Likhtman, and J. Roovers, "Linear Rheology of Multiarm Star Polymers Diluted with Short Linear Chains", *J. Rheol.*, **47**, 163-176 (2003).
76. J. R. Dorgan, D. M. Knauss, H. A. Al-Muallum, T. Huang, and D. Vlassopoulos, "Melt Rheology of Dendritically Branched Polystyrenes", *Macromolecules*, **36**, 380-388 (2003).
77. V. A. Harmandaris, V. G. Mavrantzas, D. N. Theodorou, M. Kröger, J. Ramirez, H. C. Öttinger, and D. Vlassopoulos, "Dynamic Crossover from the Rouse to the Entangled Polymer Melt Regime: Signals from Long, Detailed Atomistic Molecular Dynamics Simulations, Supported by Rheological Experiments", *Macromolecules*, **36**, 1376-1387 (2003).
78. G. Petekidis, D. Vlassopoulos, and P. Pusey, "Yielding and Flow in Colloidal Glasses", *Faraday Discuss.*, **123**, 287-302 (2003).
79. E. Stiakakis, D. Vlassopoulos, and J. Roovers, "Thermal Gelation in Colloidal Star – Linear Polymer Mixtures", *Langmuir*, **19**, 6645-6649 (2003).
80. A. Asteriadi, R. Sigel, D. Vlassopoulos, G. Meier, J. R. Dorgan, and D. M. Knauss, "Molecular Control of the Viscosity of Dendritically Branched Polystyrene Solutions: From Polymeric to Colloidal Behavior", *Macromolecules*, **37**, 1016-1022 (2004).
81. G. Petekidis, J. Gapinski, P. Seymour, J. S. van Duijneveldt, D. Vlassopoulos, and G. Fytas, "Dynamics of core-shell particles in concentrated suspensions", *Phys. Rev. E.*, **69**, 042401-1-4 (2004).
82. W. M. Holmes, P. T. Callaghan, D. Vlassopoulos, and J. Roovers, "Shear Banding Phenomena in Ultrasoft Colloidal Glasses", *J. Rheol.*, **48**, 1085-1102 (2004).
83. D. Vlassopoulos, "Colloidal Star Polymers: Models for Studying Dynamically Arrested States in Soft Matter", invited review article, *J. Polym. Sci.: Part B: Polym. Phys.*, **42**, 2931-2941 (2004).
84. G. Petekidis, D. Vlassopoulos, and P. N. Pusey, "Yielding and Flow in Sheared Colloidal Glasses", *J. Phys.: Condens. Matter*, **16**, S3955-S3963 (2004).
85. B. Loppinet, G. Fytas, D. Vlassopoulos, C. N. Likos, G. Meier, and G. J. Liu, "Dynamics of Dense Suspensions of Micellar Particles with Responsive Fixed Cores in Different Solvents", invited article *Macromol. Chem. Phys.*, **206**, 163-172 (2005).
86. D. Shah, G. Fytas, D. Vlassopoulos, J. Di, D. Sogah, and E. P. Giannelis, "Structure and Dynamics of Polymer Grafted Clay Suspensions", *Langmuir*, **21**, 19-25 (2005).
87. A. N. Rissanou, D. Vlassopoulos, and I. A. Bitsanis, "Thermal Vitrification in Suspensions of "Soft Colloids": Molecular Dynamics Simulations and Comparison with Experiments", *Phys. Rev. E.*, **71**, 011402-1-12 (2005).
88. R. M. Versteegen, D. J. M. van Beek, R. P. Sijbesma, D. Vlassopoulos, G. Fytas, and E. W. Meijer, "Living Dendrimer-Based Supramolecular Polymer Assemblies", *J. Amer. Chem. Soc.*, **127**, 13862-13868 (2005).
89. H. Watanabe, Y. Matsumiya, S. Ishida, T. Takigawa, T. Yamamoto, D. Vlassopoulos, and J. Roovers, "Nonlinear Rheology of Multiarm Star Chains", *Macromolecules*, **38**, 7404-7415 (2005).
90. M. Kapnistos, D. Vlassopoulos, J. Roovers, and L. G. Leal,

- “Linear Rheology of Architecturally Complex Macromolecules: Comb Polymers with Linear Backbones”,  
*Macromolecules*, **38**, 7852-7862 (2005).
91. E. Stiakakis, G. Petekidis, D. Vlassopoulos, C. N. Likos, H. Iatrou, N. Hadjichristidis, and J. Roovers, “Depletion and cluster formation in soft colloid-polymer mixtures”,  
*Europhys. Lett.*, **72**, 664-670 (2005).
  92. E. Zaccarelli, C. Mayer, A. Asteriadi, C. N. Likos, F. Sciortino, J. Roovers, H. Iatrou, N. Hadjichristidis, P. Tartaglia, H. Löwen, and D. Vlassopoulos, “Tailoring the Flow of Soft Glasses”,  
*Phys. Rev. Lett.*, **95**, 268301-4 (2005).
  93. S. Coppola, S. Acierno, N. Grizzuti, and D. Vlassopoulos, “Microstructure Evolution and Viscoelastic Behavior of Semicrystalline Thermoplastic Polymers During the Early Stages of Crystallization”,  
*Macromolecules*, **39**, 1507-1514 (2006)
  94. D. Vlassopoulos, “Commentary on the Observations of Solid-Like Rheological Response in Unentangled Polymer Melts by H. Mendil, P. Baroni, L. Noirez and D. Collin, P. Martinoty”, invited commentary  
*Eur. Phys. J. E*, **19**, 113-117 (2006).
  95. F. Ozon, G. Petekidis, and D. Vlassopoulos, “Signatures of Nonergodicity Transition in a Soft Colloidal System”, invited article  
*Ind. Eng. Chem. Res.*, **45**, 6946-6952 (2006).
  96. M. Kapnistos, G. Koutalas, N. Hadjichristidis, J. Roovers, D. J. Lohse, and D. Vlassopoulos, “Linear Rheology of Comb Polymers with Star-like Backbones: Melts and Solutions”,  
*Rheol. Acta*, **46**, 273-286 (2006).
  97. M. Kapnistos, and D. Vlassopoulos, “Rheological Master Curves of Crystallizing Polymer Mixtures”,  
*Appl. Rheol.*, **16**, 132-135 (2006).
  98. K. N. Pham, G. Petekidis, S. U. Egelhaaf, P. N. Pusey, D. Vlassopoulos, and W. C. K. Poon, “Yielding in Colloidal Glasses”,  
*Europhy. Letts*, **75**, 624-630 (2006).
  99. E. van Ruymbeke, C. Bailly, R. Keunings, and D. Vlassopoulos, “A general methodology to predict the linear rheology of branched polymers”,  
*Macromolecules*, **39**, 6248-6259 (2006).
  100. S. Pispas, D. Vlassopoulos, G. Fytas, B. Loppinet, and N. Hadjichristidis, “Modifying the rheological behavior of associative triblock copolymers in aqueous media through surfactant additives”, invited article,  
*Polymer*, **47**, 7302-7311 (2006).
  101. C. Mayer, E. Stiakakis, E. Zaccarelli, C. N. Likos, F. Sciortino, P. Tartaglia, H. Loewen, and D. Vlassopoulos, “Rheological Transitions in Asymmetric Colloidal Star Mixtures”,  
*Rheol. Acta*, **46**, 611-619 (2007).
  102. M. E. Helgeson, N. J. Wagner, and D. Vlassopoulos, “Viscoelasticity and Shear Melting of Colloidal Star Polymer Glasses”  
*J. Rheol.*, **51**, 297-316 (2007).
  103. E. vanRuymbeke, M. Kapnistos, D. Vlassopoulos, T. Huang, and D. M. Knauss, “Linear Melt Rheology of Pom-Pom Polystyrenes with Unentangled Branches”,  
*Macromolecules*, **40**, 1713-1719 (2007).
  104. S. Coppola, N. Grizzuti, G. Floudas, and D. Vlassopoulos, “Viscoelasticity and crystallization of Poly(ethylene oxide) Star Polymers of Varying Arm Number and Size”, *J. Rheol.*, **51**, 1007-1025 (2007).
  105. E. van Ruymbeke, K. Orfanou, M. Kapnistos, H. Iatrou, M. Pitsikalis, N. Hadjichristidis, D. J. Lohse, and D. Vlassopoulos, “Entangled Dendritic Polymers and Beyond: Rheology of Symmetric Cayley-Tree Polymers and Macromolecular Self-Assemblies”,  
*Macromolecules*, **40**, 5941-5952 (2007).
  106. A. N. Beris, E. Stiakakis, and D. Vlassopoulos, “A Thermodynamically Consistent Model for the Thixotropic Behavior of Concentrated Star Polymer Suspensions”,  
*J. Non-Newtonian Fluid Mech.*, **152**, 76-85 (2008).
  107. K. N. Pham, G. Petekidis, D. Vlassopoulos, S. U. Egelhaaf, W. C. K. Poon, and P. N. Pusey,

- “Yielding Behavior of Repulsion- and Attraction-Dominated Colloidal Glasses”,  
*J. Rheol.*, **52**, 649-676 (2008).
108. S. A. Rogers, D. Vlassopoulos, and P. T. Callaghan,  
“Ageing, Yielding and Shear Banding in Soft Colloidal Glasses”,  
*Phys. Rev. Lett.*, **100**, 128304 (2008).
109. L. Hilliou, D. Vlassopoulos, S. Pispas, and N. Hadjichristidis,  
“A Rheo-optical Study of Stress-Fluctuations Coupling in a Disordered and Entangled Diblock Copolymer Solution”,  
*Macromolecules*, **41**, 3328-3338 (2008).
110. H. Watanabe, Y. Matsumiya, E. van Ruymbeke, D. Vlassopoulos, and N. Hadjichristidis,  
“Viscoelastic and Dielectric Relaxation of a Cayley-Tree Type Polyisoprene: Test of Molecular Picture of Dynamic Tube Dilatation”,  
*Macromolecules*, **41**, 6110-6124 (2008).
111. C. Mayer, E. Zaccarelli, E. Stiakakis, C. N. Likos, F. Sciortino, A. Munam, M. Gauthier, N. Hadjichristidis, H. Iatrou, P. Tartaglia, H. Löwen, and D. Vlassopoulos,  
“Asymmetric Caging in Soft Colloidal Mixtures”,  
*Nature Materials*, **7**, 780-784 (2008).
112. M. Kapnistos, M. Lang, D. Vlassopoulos, W. Pyckhout-Hintzen, D. Richter, D. Cho, T. Chang, and M. Rubinstein,  
“Unexpected Power-Law Stress Relaxation in Entangled Ring Polymers”,  
*Nature Materials*, **7**, 997-1002 (2008).
113. M. Kapnistos, K. M. Kirkwood, J. Ramirez, D. Vlassopoulos, and L. G. Leal,  
“Nonlinear Rheology of Model Comb Polymers”  
*J. Rheol.*, **53**, 1133-1153 (2009)
114. C. Christopoulou, G. Petekidis, B. Erwin, M. Cloitre, and D. Vlassopoulos,  
“Aging and Yield Behaviour in Model Soft Colloidal Glasses”,  
*Phil. Trans. R. Soc. London, Ser. A*, **367**, 5051-5071 (2009).
115. M. Anyfantakis, A. Bourlinos, D. Vlassopoulos, G. Fytas, E. P. Giannelis, and S. K. Kumar,  
“Solvent-Mediated Pathways to Gelation and Phase Separation in Suspensions of Grafted Nanoparticles”,  
*Soft Matter*, **5**, 4256-4265 (2009).
116. K. M. Kirkwood, L. G. Leal, D. Vlassopoulos, P. Driva, and N. Hadjichristidis,  
“Stress Relaxation of Comb Polymers with Short Branches”  
*Macromolecules*, **42**, 9592-9608 (2009).
117. E. van Ruymbeke, D. Vlassopoulos, M. Kapnistos, CY. Liu, and C. Bailly,  
“A Proposal to Solve the Time-Stress Discrepancy of Tube Models”,  
*Macromolecules*, **43**, 525-531 (2010).
118. S. A. Rogers, P. T. Callaghan, G. Petekidis, and D. Vlassopoulos,  
“Time-Dependent Rheology of Colloidal Star Glasses”,  
*J. Rheol.*, **54**, 133-158 (2010).
119. E. van Ruymbeke, A. Pamvouxoglou, D. Vlassopoulos, G. Petekidis, G. Mountrichas, and S. Pispas,  
“Stable responsive diblock copolymer micelles for rheology control”,  
*Soft Matter*, **6**, 881-891 (2010).
120. B. M. Erwin, S. A. Rogers, M. Cloitre, and D. Vlassopoulos,  
“Examining the Validity of Strain-Rate Frequency Superposition When Measuring the Linear Properties of Soft Materials”,  
*J. Rheol.*, **54**, 187-196 (2010).
121. E. van Ruymbeke, S. Coppola, L. Balacca, S. Righi, and D. Vlassopoulos,  
“Decoding the Viscoelastic Response of Polydisperse Star/Linear Polymer Blends”,  
*J. Rheol.*, **54**, 507-538 (2010).
122. J.T. Padding, E. van Ruymbeke, D. Vlassopoulos, and W.J. Briels,  
“Computer simulation of the rheology of concentrated star polymer suspensions”,  
*Rheol. Acta*, **49**, 473-484 (2010).
123. S. A. Rogers, and D. Vlassopoulos,  
“Frieze Group Analysis of Asymmetric Response to Large Amplitude Oscillatory Shear”,  
*J. Rheol.*, **54**, 859-880 (2010).
124. B. M. Erwin, M. Cloitre, M. Gauthier, and D. Vlassopoulos,  
“Dynamics and Rheology of Colloidal Star Polymers”,  
*Soft Matter*, **6**, 2825-2833 (2010).
125. E. van Ruymbeke, D. Vlassopoulos, M. Mierzwa, T. Pakula, D. Charalabidis, M. Pitsikalis, and N. Hadjichristidis,



- “Rheology and Structure of Telechelic Linear and Star Polyisoprene Melts”, *Macromolecules*, **43**, 4401-4411 (2010).
126. E. Stiakakis, A. Wilk, J. Kohlbrecher, D. Vlassopoulos, and G. Petekidis, “Slow Dynamics, Aging and Crystallization of Concentrated Multiarm Stars”, *Phys. Rev. E*, **81**, 020402(R) (2010).
  127. E. van Ruymbeke, E. B. Muliawan, S. G. Hatzikiriakos, T. Watanabe, A. Hirao, and D. Vlassopoulos, “Viscoelasticity and Extensional Rheology of Model Cayley-tree Polymers of Different Generations”, *J. Rheol.* **54**, 643-662 (2010).
  128. B. M. Erwin, D. Vlassopoulos, and M. Cloitre, “Rheological Fingerprinting of an Aging Soft Colloidal Glass”, *J. Rheol.*, **54**, 915-939 (2010).
  129. A. Wilk., S. Huißmann, E. Stiakakis, J. Kohlbrecher, D. Vlassopoulos, C. N. Likos, G. Meier, J. K. G. Dhont, G. Petekidis, and R. Vavrin, “Osmotic shrinkage in star-linear polymer mixtures”, *Eur. Phys. J. E.*, **32**, 127-134 (2010).
  130. D. Vlassopoulos, and G. Fytas, “From polymers to Colloids: Engineering the Dynamic Properties of Hairy Particles”, invited review article *Adv. Polym. Sci.*, **236**, 1-54 (2010).
  131. E. van Ruymbeke, E. B. Muliawan, D. Vlassopoulos, H. Gao, and K. Matyjaszewski, “Melt rheology of star polymers with large number of small arms, prepared by crosslinking poly(*n*-butyl acrylate) macromonomers via ATRP”, invited article, *Eur. Polym. J.*, **47**, 746-751 (2011).
  132. S. A. Rogers, B. M. Erwin, D. Vlassopoulos, and M. Cloitre, “A sequence of physical processes determined and quantified in LAOS: Application to a yield-stress fluid”, *J. Rheol.*, **55**, 435-458 (2011).
  133. W. J. Briels, D. Vlassopoulos, K. Kang, and J. K. G. Dhont, “Constitutive Equations for the Flow Behavior of Entangled Star Polymers”, *J. Chem. Phys.*, **134**, 124901 (2011).
  134. S. A. Rogers, B. M. Erwin, D. Vlassopoulos, and M. Cloitre, “Oscillatory Yielding of a Colloidal Star Glass”, *J. Rheol.*, **55**, 733-752 (2011).
  135. E. Stiakakis, B. M. Erwin, D. Vlassopoulos, M. Cloitre, A. Nunam, H. Iatrou, and N. Hadjichristidis, “Probing Glassy States in Binary Mixtures of Soft Interpenetrable Colloids”, *J. Phys. C: Condensed Matter*, **23**, 234116- (2011).
  136. B. M. Erwin, D. Vlassopoulos, M. Gauthier, and M. Cloitre, “Unique Slow Dynamics and Aging Phenomena in Soft Glassy Suspensions of Multiarm Star Polymers”, *Phys. Rev. E*, **83**, 061402 (2011).
  137. C. O. Klein, L. de Viguerie, C. Christopoulou, U. Jonas, C. G. Clark, Jr., K. Müllen, and D. Vlassopoulos, “Viscoelasticity of Semifluorinated Alkanes at the Air/Water Interface”, invited article *Soft Matter*, **7**, 7737-7746 (2011).
  138. D. Truzzolillo, D. Vlassopoulos, and M. Gauthier, “Osmotic Interactions, Rheology and Arrested Phase Separation in Star-Linear Polymer Mixtures”, *Macromolecules*, **44**, 5043-5052 (2011).
  139. F. Snijkers, and D. Vlassopoulos, “Cone-Partitioned-Plate Geometry for the ARES Rheometer with Temperature Control”, *J. Rheol.*, **55**, 1167-1186 (2011).
  140. L. de Viguerie, R. Keller, U. Jonas, R. Berger, C. G. Clark, Jr., K. Müllen, C. Klein, T. Geue, and D. Vlassopoulos, “Effect of Molecular Structure on the Packing of Semifluorinated Alkanes at the Air/Water Interface”, *Langmuir*, **27**, 8776-8786 (2011).
  141. A. R. Bras, R. Pasquino, T. Koukoulas, G. Tsolou, O. Holderer, A. Radulescu, J. Allgaier, V. G. Mavrantzas, W. Pyckhout-Hintzen, A. Wischniewski, D. Vlassopoulos, and D. Richter, “Structure and Dynamics of Polymer Rings by Neutron Scattering: Breakdown of the Rouse Model”, *Soft Matter*, **7**, 11169-11176 (2011).
  142. F. Snijkers, E. van Ruymbeke, P. Kim, H. Lee, A. Nikopoulou, T. Chang, N. Hadjichristidis, J. Pathak, and D. Vlassopoulos, “Architectural Dispersity in Model Branched Polymers: Analysis and Rheological Consequences”, *Macromolecules*, **44**, 8631-8643 (2011).
  143. E. Antoniou, P. Voudouris, A. Larsen, B. Loppinet, D. Vlassopoulos, I. Pastoriza-Santos, and L. M. Liz-Marzan,

- “Static and Dynamic Plasmon-Enhanced Light Scattering from Dispersions of Polymer-Grafted Silver Nanoprisms in the Bulk and Near Solid Surfaces”,  
*J. Phys. Chem. C*, **116**, 3888-3896 (2012).
144. B. Derakhshandeh, D. Vlassopoulos, and S. G. Hatzikiriakos,  
“Thixotropy, Yielding and Ultrasonic Doppler Velocimetry in Pulp Fibre Suspensions”,  
*Rheol. Acta*, **51**, 201-214 (2012).
145. R. Pasquino, R. Zhang, R. Sigel, H. Yu, M. Ottiger, O. Bertran, C. Aleman, A. D. Schlutter, and D. Vlassopoulos,  
“Linear viscoelastic response of dendronized polymers”,  
*Macromolecules*, **45**, 8813-8823 (2012).
146. M. Berta, B. Loppinet, D. Vlassopoulos, A. Askounis, V. Koutsos, I. Pastoriza-Santos and L.M. Liz-Marzan,  
“Tailoring the properties of grafted silver nanoprism composites”,  
*Polymer*, **53**, 5771-5778 (2012).
147. D. Truzzolillo, D. Vlassopoulos, and M. Gauthier,  
“Rheological Detection of Caging and Solid-Liquid Transitions in Soft Colloid – Polymer Mixtures”,  
*J. Non-Newtonian Fluid Mech.*, **193**, 11-20 (2013).
148. H. Lentzakis, D. Vlassopoulos, D. J. Read, Y. Lee, T. Chang, P. Driva, and N. Hadjichristidis,  
“Uniaxial extensional rheology of well-characterized comb polymers”,  
*J. Rheol.*, **57**, 605-625 (2013).
149. F. Snijkers, D. Vlassopoulos, H. Lee, J. Yang, T. Chang, P. Driva, and N. Hadjichristidis,  
“Start-up and relaxation of well-characterized comb polymers in simple shear”,  
*J. Rheol.*, **57**, 1079-1100 (2013).
150. F. Snijkers, D. Vlassopoulos, G. Ianniruberto, G. Marrucci, H. Lee, J. Yang, and T. Chang,  
“Double stress overshoot in start-up of simple shear flow of entangled comb polymers”  
*ACS Macro Lett.*, **2**, 601-604 (2013).
151. F. Snijkers, K. Ratkanthwar, D. Vlassopoulos, N. Hadjichristidis,  
“Viscoelasticity, nonlinear shear start-up and relaxation of entangled star polymers”,  
*Macromolecules*, **46**, 5702-5713 (2013).
152. D. Truzzolillo, D. Vlassopoulos, M. Gauthier, and A. Munam,  
“Thermal melting in depletion gels of hairy nanoparticles”, invited article, Themed issue: “Directed Self-Assembly”, guest editor E. M. Furst,  
*Soft Matter*, **9**, 9088-9093 (2013).
153. T. Still, M. Oudich, G. K. Auerhammer, D. Vlassopoulos, B. Djafari-Rouhani, G. Fytas, and P. Sheng,  
“Soft silicone rubber in phononic structures: The correct elastic moduli”,  
*Phys. Rev. B*, **88**, 094102 (2013).
154. R. Pasquino, Th. C. Vasilakopoulos, Y. C. Jeong, H. Lee, S. Rogers, G. Sakellariou, J. Allgaier, A. Takano, A. R. Brás, T. Chang, S. Goßen, W. Pyckhout-Hintzen, A. Wischniewski, N. Hadjichristidis, D. Richter, M. Rubinstein, and D. Vlassopoulos,  
“Viscosity of Ring Polymer Melts”,  
*ACS Macro Lett.*, **2**, 874-878 (2013).
155. K. Ratkanthwar, N. Hadjichristidis, S. Lee, T. Chang, Z. Pudukulathan, and D. Vlassopoulos,  
“Synthesis and characterization of an exact comb polyisoprene with three branches having the middle branch twice the molecular weight of the other two identical external branches”,  
*Polym. Chem.*, **4**, 5645-5655 (2013).
156. D. Truzzolillo, D. Marzi, J. Marakis, B. Capone, M. Camargo, A. Munam, F. Moingeon, M. Gauthier, C. N. Likos, and D. Vlassopoulos,  
“Glassy states in asymmetric mixtures of soft and hard colloids”,  
*Phys. Rev. Lett.*, **111**, 208301 (2013).
157. S. Moll, S. K. Kumar, F. Snijkers, D. Vlassopoulos, A. Rungta, B. C. Benicewicz, E. Gomez, J. Ilavsky, and R. H. Colby,  
“Dispersing grafted nanoparticle assemblies into polymer melts through flow fields”,  
*ACS Macro Lett.*, **2**, 1051-1055 (2013).
158. E. Córdova-Mateo, O. Bertran, B. Zhang, D. Vlassopoulos, R. Pasquino, A. D. Schlüter, M. Kröger, and C. Alemán,  
“Interactions in dendronized polymers: Intramolecular dominates intermolecular”,  
*Soft Matter*, **10**, 1032-1044 (2014).
159. P. Bačová, H. Lentzakis, D. J. Read, A. J. Moreno, D. Vlassopoulos, and C. Das,  
“Branchpoint motion in architecturally complex polymers: estimation of hopping parameters from computer simulations and experiments”,  
*Macromolecules*, **47**, 3362-3377 (2014).

160. D. Truzzolillo, D. Vlassopoulos, A. Munam, and M. Gauthier, “Depletion gels from dense soft colloids: rheology and thermoreversible melting”, invited article for special issue “Rheology of colloidal gels”, *J. Rheol.*, **58**, 1441-1462 (2014).
161. E. van Ruymbeke, H. Lee, T. Chang, A. Nikopoulou, N. Hadjichristidis, F. Snijkers, and D. Vlassopoulos, “Molecular rheology of branched polymers: decoding and exploring the role of architectural dispersity through a synergy of anionic synthesis, interaction chromatography, rheometry and modeling”, highlight article, *Soft Matter*, **10**, 4762-4777 (2014), journal cover.
162. F. Snijkers, H. Y. Cho, A. Nese, K. Matyjaszewski, W. Pyckhout-Hintzen, and D. Vlassopoulos, “Effects of core microstructure on structure and dynamics of star polymer melts: from polymeric to colloidal response”, *Macromolecules*, **47**, 5347-5356 (2014).
163. B. Fitzgerald, H. Lentzakis, G. Sakellariou, D. Vlassopoulos, and W. Briels, “A Computational and Experimental Study of the Linear and Nonlinear Response of a Star Polymer Melt with a Moderate Number of Unentangled Arms”, *J. Chem. Phys.*, **141**, 114907 (2014).
164. F. Snijkers, and D. Vlassopoulos, “Appraisal of the Cox-Merz Rule for Well-Characterized Entangled Linear and Branched Polymers”, *Rheol. Acta*, **53**, 935-946 (2014).
165. H. Lentzakis, C. Das, D. Vlassopoulos, and D. J. Read, “Pom-Pom Like Constitutive Equations for Comb Polymers”, *J. Rheol.*, **58**, 1855-1876 (2014).
166. A. D. Schlüter, A. Halperin, M. Kröger, D. Vlassopoulos, G. Wegner, and B. Zhang, “Dendronized Polymers: Molecular Objects Between Conventional Linear Polymers and Colloidal Particles”, review article, *ACS Macro Lett.*, **3**, 991-998 (2014).
167. D. Vlassopoulos, and M. Cloitre, “Tunable Rheology of Dense Soft Deformable Colloids”, invited review article *Curr. Opinion Colloid Interface Sci.*, **19**, 561-574 (2014).
168. C. Marliere, D. Vlassopoulos, P. Faure, A. Larsen, B. Loppinet, P. Coussot, “Jamming of Cellulose Ether Solutions in Porous Medium”, *AIChE J.*, **61**(11), 3923-3935 (2015).
169. S. Gooßen, A. R. Brás, W. Pyckhout-Hintzen, A. Wischnewski, D. Richter, M. Rubinstein, J. Roovers, P. Lutz, Y. Jeong, T. Chang, and D. Vlassopoulos, “Influence of Solvent Quality on Ring Polymer Dimensions”, *Macromolecules*, **48**, 1598-1605 (2015).
170. A. Theodoratou, U. Jonas, B. Loppinet, T. Geue, R. Stangenberg, and D. Vlassopoulos, “Structure, Photoswitching Behavior and Rheological Properties of Photo-Responsive Films of Semifluorinated Alkyl-Azobenzenes at the Air-Water Interface”, *Phys. Chem.Chem. Phys.*, **17**, 28844-28852 (2015).
171. L.M. Polgar, H. Lentzakis, D. Collias, F. Snijkers, S. Lee, T. Chang, G. Sakellariou, D.A.Z. Wever, C. Toncelli, A.A. Broekhuis, F. Picchioni, A.D. Gotsis, and D. Vlassopoulos, “Synthesis and linear viscoelasticity of polystyrene stars with a polyketone core”, *Macromolecules*, **48**, 6662-6671 (2015).
172. F. Snijkers, R. Pasquino, P. D. Olmsted, and D. Vlassopoulos, “Perspectives on the viscoelasticity and flow behavior of entangled linear and branched polymers”, invited topical review, *J. Phys.: Condens. Matter*, **27**, 473002 (2015)
173. A. Vagias, M. Gauthier, M. Doroshenko, K. Koynov, H.-J. Butt, G. Fytas, and D. Vlassopoulos, “Molecular tracer diffusion in non-dilute polymer solutions: Universal master curve and glass transition effects”, *Macromolecules*, **48**, 8907-8912 (2015).
174. D. Marzi, B. Capone, J. Marakis, M. C. Merola, D. Truzzolillo, L. Cipelletti, F. Moingeon, M. Gauthier, D. Vlassopoulos, C. N. Likos, and M. Camargo, “Depletion, melting and reentrant solidification in mixtures of soft and hard colloids”, *Soft Matter*, **11**, 8296-8312 (2015)
175. A. Theodoratou, U. Jonas, B. Loppinet, T. Geue, R. Stangenberg, R. Keller, D. Li, R. Berger, J. Vermant, and D. Vlassopoulos, “Semifluorinated alkanes at the air-water interface: tailoring structure and rheology at the molecular scale”

- Langmuir*, **32**, 3139-3151 (2016)
176. C. Dessi, G. D. Tsiibidis, D. Vlassopoulos, M. De Corato, M. Trofa, G. D'Avino, P. L. Maffettone, and S. Coppola,  
"Analysis of dynamic mechanical response in torsion",  
*J. Rheol.*, **60**, 275-287 (2016).
  177. R. McKenzie, and D. Vlassopoulos,  
"Rheological diagnostic tools for state transitions",  
*J. Rheol.*, **60**, 367-378 (2016)
  178. G. Baeza, C. Dessi, S. Costanzo, D. Zhao, S. Gong, A. Alegria, R. H. Colby, M. Rubinstein, D. Vlassopoulos, and S. K. Kumar,  
"Network dynamics in nanofilled polymers",  
*Nature Comm.*, DOI: 10.1038/ncomms11368, **7**, 11368 (2016).
  179. P. Georgoudis, C. Dessi, G. Charalambidis, I. M. Aslanidis, D. Vlassopoulos, A. G. Koutsolelos, G. Kymionis, A. Mukherjee, and Th. N. Kitsopoulos,  
"A novel method for the estimation of UVA-Riboflavin corneal crosslinking using dynamic frequency sweep measurements",  
*Investigative Ophthalmology & Visual Sci. (IOVS)*, **57**, 2240-2245 (2016).
  180. Yan, Z.-C., S. Costanzo, Y. Jeong, T. Chang, and D. Vlassopoulos,  
"Linear and nonlinear shear rheology of a marginally entangled ring polymer",  
*Macromolecules*, **49**, 1444-1453 (2016)
  181. F. Snijkers, K. M. Kirkwood, D. Vlassopoulos, L. G. Leal, A. Nikopoulou, and N. Hadjichristidis,  
"Viscoelasticity and nonlinear simple shear flow behavior of an entangled exact comb polymer solution",  
*J. Rheol.*, **60**, 451-463 (2016).
  182. Marakis, J., K. Wunderlich, M. Klapper, D. Vlassopoulos, G. Fytas, K. Müllen,  
"Strong Physical Hydrogels from Fibrillar Supramolecular Assemblies of Poly(ethylene glycol) Functionalized Hexaphenylbenzenes",  
*Macromolecules*, **49**, 3516-3525 (2016).
  183. Derakshandeh M, N. Noroozi, L. L. Schafer, D. Vlassopoulos, and S. G. Hatzikiriakos,  
"Dynamics of partially miscible polylactide-poly( $\epsilon$ -caprolactone) blends in the presence of cold crystallization",  
*Rheol. Acta*, **55**, 657-671 (2016)
  184. Tsalikis D., V. Mavratzias, and D. Vlassopoulos,  
"Analysis of Slow Modes in Ring Polymers: Threading of Rings Controls Long-Time Relaxation",  
*ACS Macro Lett.*, **5**, 755-760 (2016).
  185. Yan Z.-C., and D. Vlassopoulos,  
"Classification of polymer branching revisited: chain dimensions and dynamic dilution"  
*Polymer*, **96**, 35-44 (2016).
  186. Costanzo S., Q. Huang, G. Ianniruberto, G. Marrucci, O. Hassager, and D. Vlassopoulos,  
"Shear and extensional rheology of polystyrene melts and solutions with the same number of entanglements"  
*Macromolecules*, **49**, 3925-3935 (2016).
  187. Vlassopoulos D.,  
"Macromolecular topology and rheology: beyond the tube model", Weissenberg award paper,  
*Rheol. Acta*, **55**, 613-632 (2016)
  188. Truzzolillo, D., H. E. Sharaf, U. Jonas, B. Loppinet, and D. Vlassopoulos,  
"Tuning structure and rheology of polystyrene particles at the air-water interface by varying pH",  
*Langmuir*, **32**, 6956-6966 (2016).
  189. Costanzo, S., L. F. Scherz, T. Schweizer, M. Kröger, G. Floudas, A. D. Schlüter, and D. Vlassopoulos,  
"Rheology and packing of dendronized polymers",  
*Macromolecules*, **49**, 7054-7048 (2016).
  190. Baeza, G. P., A. Sharma, A. Louhichi, L. Imperiali, W. P.J. Appel, C. F.C. Fitié, M. P. Lettinga, E. van Ruymbeke, and D. Vlassopoulos,  
"Multiscale Organization of Thermoplastic Elastomers with varying content of Hard Segments",  
*Polymer*, **107**, 89-101 (2016)
  191. Huang, Q., S. Costanzo, C. Das, and D. Vlassopoulos,  
"Stress growth and relaxation of dendritically branched macromolecules in shear and uniaxial extension",  
*J. Rheol.*, **61**, 35-47 (2017).
  192. Tsalikis, D., T. Koukoulas, V. Mavrantzas, R. Pasquino, D. Vlassopoulos, W. Pyckhout-Hintzen, A. Wischniewski, M. Monkenbusch, and D. Richter,

- “Microscopic structure, conformation and dynamics of ring and linear polyethylene oxide melts from detailed atomistic molecular dynamics simulations: Dependence on chain length and direct comparison with experimental data”,  
*Macromolecules*, **50**: 2565-2584 (2017).
193. J. K. G. Dhont, K. Kang, H. Krieger, J. Marakis, O. Danko, and D. Vlassopoulos,  
“Non-uniform flow is soft glasses of colloidal rods”,  
*Phys. Rev. Fluids*, **2**: 043301 (2017).
194. Scherz, L. F., S. Costanzo, T. Schweizer, M. Kröger, G. Floudas, A. D. Schlüter, and D. Vlassopoulos,  
“Dendronized polymers with ureido-pyrimidinone groups: an efficient strategy to tailor intermolecular interactions, rheology and fracture”,  
*Macromolecules*, **50**, 5176-5187 (2017).
195. van der Scheer, P. C., T. van de Laar, J. van der Gucht, D. Vlassopoulos, and J. Sprakel,  
“Fragility and strength in nanoparticle glasses”,  
*ACS Nano*, **11**, 6755-6763 (2017).
196. Dessi C., D. Vlassopoulos, A. J. Giacomin, and C. Saengow,  
“Elastomers in oscillatory uniaxial extension”,  
*Rheol. Acta*, **56**: 955-970 (2017).
197. A. Shabbir, Q. Huang, G. P. Baeza, D. Vlassopoulos, Q. Chen, R. H. Colby, N. J. Alvarez and O. Hassager,  
“Nonlinear shear and uniaxial extensional rheology of polyether-ester-sulfonated copolymer ionomer melts”,  
*J. Rheol.*, **61**, 1279-1289 (2017).
198. A. Louhichi, A. R. Jacob, L. Boutteiller, and D. Vlassopoulos,  
“Humidity affects the viscoelastic properties of supramolecular living polymers”, special issue on Associating polymers,  
*J. Rheol.*, **61**, 1173-1182 (2017).
199. S. Bochner de Araujo, M. Merola, D. Vlassopoulos, and G. G. Fuller,  
“Droplet coalescence and spontaneous emulsification in the presence of asphaltene adsorption”,  
*Langmuir*, **33**, 10501-10510 (2017).
200. S. Lindeblad Wingstrand, B. Shen, J. A. Kornfield, K. Mortensen, D. Parisi, D. Vlassopoulos, and O. Hassager,  
“Rheological Link Between Polymer Melts with a High Molecular Weight Tail and Enhanced Formation of Shish-kebabs”,  
*ACS Macro Lett.*, **6**, 1268-1273 (2017).
201. M. C. Merola, D. Parisi, D. Truzzolillo, and D. Vlassopoulos,  
“Asymmetric soft-hard colloidal mixtures: osmotic effects, glassy states and rheology”  
*J. Rheol.*, **62**, 63-79 (2018).
202. J. Ruiz-Franco, J. Marakis, N. Gnan, J. Kohlbrecher, M. Gauthier, M. P. Lettinga, D. Vlassopoulos, and E. Zaccarelli,  
“Crystal-to-crystal transition in ultrasoft colloids under shear”,  
*Phys. Rev. Lett.*, **120**, 078003 (2018).
203. S. Costanzo, G. Ianniruberto, G. Marrucci, and D. Vlassopoulos,  
“Measuring and assessing first and second normal stress differences of polymeric fluids with a modular cone-partitioned plate geometry”,  
*Rheol. Acta*, **57**, 363-376 (2018).
204. V. Metri, A. Louhichi, J. Yan, K. Matyjaszewski, G. B. Baeza, D. Vlassopoulos, and W. J. Briels,  
“Physical networks from multifunctional telechelic star polymers: a rheological study by experiments and simulations”,  
*Macromolecules*, **51**, 2872-2886 (2018).
205. P. Bilalis, D. Skoulas, A. Karatzas, J. Marakis, A. Stamogiannos, C. Tsimblouli, E. Sereti, E. Stratikos, K. Dimas, D. Vlassopoulos, and H. Iatrou,  
“Self-Healing pH- and Enzyme Stimuli-Responsive Hydrogels for Targeted Delivery of Gemcitabine to Treat Pancreatic Cancer”,  
*Biomacromolecules*, **19**, 3840-3852 (2018).
206. Z.-C. Yan, Md. D. Hossain, M. J. Monteiro, and D. Vlassopoulos,  
“Viscoelastic properties of unentangled multicyclic polystyrenes”,  
*Polymers*, **10**, 973 (2018) doi:10.3390/polym10090973.
207. C. O. Klein, A. Theodoratou, P. A. Rühls, U. Jonas, B. Loppinet, M. Wilhelm, P. Fischer, J. Vermant, and D. Vlassopoulos,  
“Interfacial Fourier Transform Shear Rheometry of Complex Fluid Interfaces”,  
*Rheol. Acta*, **58**, 29-45 (2018).

208. B. J. Gold, W. Pyckhout-Hintzen, A. Wischnewski, A. Radulescu, M. Monkenbusch, J. Allgaier, I. Hoffmann, D. Parisi, D. Vlassopoulos, and D. Richter, “Direct assessment of tube dilation in entangled polymers”, *Phys. Rev. Lett.*, **122**, 088001 (2019).
209. Q. Huang, J. Ahn, D. Parisi, T. Chang, O. Hassager, S. Panyukov, M. Rubinstein, and D. Vlassopoulos, “Unexpected stretching of entangled ring macromolecules”, *Phys. Rev. Lett.*, **122**, 208001 (2019), editor’s suggestion.
210. D. Parisi, D. Truzzolillo, V. D. Deepak, M. Gauthier, and D. Vlassopoulos, “Transition from confined to bulk dynamics in symmetric star-linear polymer mixtures”, *Macromolecules*, **52**, 5872-5883 (2019).
211. L. Gury, M. Gauthier, M. Cloitre, and D. Vlassopoulos, “Colloidal jamming in multiarm star polymer melts”, *Macromolecules*, **52**, 4617-4623 (2019), journal cover.
212. J. Hendricks, A. Louhichi, V. Merti, R. Fournier, N. Reddy, L. Bouteiller, M. Cloitre, C. Clasen, D. Vlassopoulos, and W. J. Briels, “Non-monotonic stress relaxation after cessation of steady shear flow in supramolecular assemblies”, *Phys. Rev. Lett.*, **123**, 218003 (2019).
213. S. Costanzo, L. Scherz, G. Floudas, R. Pasquino, M. Kröger, A. D. Schlüter, and D. Vlassopoulos, “Hybrid Dendronized Polymers as Molecular Objects: Viscoelastic Properties in the Melt”, *Macromolecules*, **52**, 7331-7342 (2019).
214. H. Lentzakis, S. Costanzo, D. Vlassopoulos, R. H. Colby, D. J. Read, and E. van Ruymbeke, “Constraint release mechanisms for H-polymers moving in linear matrices of varying molar masses”, *Macromolecules*, **52**, 3010-3028 (2019).
215. E. Moghimi, I. Chubak, A. Statt, M. P. Howard, D. Founta, G. Polymeropoulos, K. Ntetsikas, N. Hadjichristidis, A. Z. Panagiotopoulos, C. N. Likos, and D. Vlassopoulos, “Self-organization and flow of low-functionality telechelic star polymers with varying attraction”, *ACS Macro Lett.*, **8**, 766-772 (2019).
216. Th. Athanasiou, G.K. Auernhammer, D. Vlassopoulos, and G. Petekidis, “High-frequency rheometry: validation of the loss angle measuring loop and application to polymer melts and colloidal glasses”, *Rheol. Acta*, **58**, 619-637 (2019).
217. L. F. Scherz, B. Schroyen, M. Pepicelli, D. A. Schlüter, Jan Vermant, and D. Vlassopoulos, “Molecularly Designed Interfacial Viscoelasticity by Dendronized Polymers: From Flexible Macromolecules to Colloidal Objects”, *ACS Nano*, **13**, 14217-14229 (2019) doi.org/10.1021/acsnano.9b07142.
218. D. Parisi, Y. Ruan, G. Ochbaum, K. S. Sillmore, L. L. Cullari, C.-Y. Liu, R. Bitton, O. Regev, J. W. Swan, B. Loppinet, and D. Vlassopoulos, “Short and soft: multi-domain organization, tunable dynamics and jamming in suspensions of grafted colloidal cylinders with small aspect ratio”, *Langmuir*, **35**, 17103-17113 (2019).
219. B. Schroyen, D. Vlassopoulos, P. Van Puyvelde, and Jan Vermant, “Bulk Rheometry at High Frequencies: a Review of Experimental Approaches”, *Rheol. Acta*, **59**, 1-22 (2020) doi.org/10.1007/s00397-019-01172-w.
220. D. Parisi, J. Ahn, T. Chang, D. Vlassopoulos, and M. Rubinstein, “Stress relaxation in ring-linear polymer blends at low ring fractions”, *Macromolecules*, **53**, 1685-1693 (2020) doi/10.1021/acs.macromol.9b02536.
221. S.-L. Bitsi, M. Stogiou, S. Costanzo, E. Stiakakis, D. Vlassopoulos, A. Nika, M. Chatzichristidi, M. Pitsikalis, “Synthesis and Characterization of Low-Molar Mass End-Functionalized Homo- and Copolymers with Ureidopyrimidone, UPy Groups”, *Colloid Polym. Sci.*, **298**, 637-651 (2020).
222. L. T. Andriano, N. Ruocco, J. D. Peterson, D. Olds, M. E. Helgeson, K. Ntetsikas, N. Hadjichristidis, S. Costanzo, D. Vlassopoulos, R. P. Hjelm, and L. G. Leal, “Microstructural characterization of a star-linear polymer blend under shear flow by using rheo-SANS”, *J. Rheol.*, **64**, 663-672 (2020).
223. S. Alexandris, K. Peponaki, P. Petropoulou, G. Sakellariou, D. Vlassopoulos, “Linear viscoelastic response of unentangled polystyrene bottlebrushes”, *Macromolecules*, **53**, 3923-3932 (2020).
224. E. Vereroudakis, M. Bantawa, R. P. M. Lafleur, D. Parisi, N. M. Matsumoto, J. W. Peeters, E. Del Gado, E. W. Meijer, and D. Vlassopoulos,

- “Competitive supramolecular associations mediate the viscoelasticity of binary hydrogels”, *ACS Cent. Sci.*, **6**(8) 1401-1411 (2020).
225. A. Louhichi, C.-A. Charles, T. Phou, D. Vlassopoulos, L. Ramos and C. Ligoure, “Bi-extensional viscous dissipation in the expansion dynamics of sheets formed by impact of drops of Newtonian and viscoelastic thinning fluids”, *Phys. Rev. Fluids*, **5**, 053602 (2020).
226. A. Borger, W. Wang, T. C. O'Connor, T. Ge, G. S. Grest, G. Jensen, J. Ahn, T. Chang, O. Hassager, K. Mortensen, D. Vlassopoulos, Q. Huang, “Threading-Unthreading Transition of Linear-Ring Polymer Blends in Extensional Flow”, *ACS Macro Lett.*, **9**(10), 1452-1457 (2020) ; doi.org/10.1021/acsmacrolett.0c00607
227. C. R. Bilchak, M. Jhalaria, J. Midya, Y. Huang, Z. Abbas, F. M. Benedetti, D. Parisi, W. Egger, M. Dickmann, M. Minelli, F. Doghieri, A. Nikoubashman, C. J. Durning, D. Vlassopoulos, J. Jestin, Z. P. Smith, B. C. Benicewicz, M. Rubinstein, L. Leibler, and S. K. Kumar, “Tuning Selectivities in Gas Separation Membranes Based on Polymer-Grafted Nanoparticles”, *ACS Nano*, **14**(12), 17174-17183 (2020).
228. D. Parisi, J. Ruiz-Franco, Y. Ruan, C.-Y. Liu, B. Loppinet, E. Zaccarelli, and D. Vlassopoulos, “Static and Dynamic Properties of Block-Copolymer Based Grafted Nanoparticles Across the Non-Ergodicity Transition”, *Phys. Fluids*, **32**, 127101 (2020).
229. E. Vereroudakis and D. Vlassopoulos, “Tunable dynamic properties of hydrogen-bonded supramolecular assemblies in solution”, invited article, *Prog. Polym. Sci.*, **112**, 101321 (2021).
230. E. Vereroudakis, K.-T. Bang, M. Karouzou, A. Ananiadou, J. Noh, T.-L. Choi, B. Loppinet, G. Floudas, and D. Vlassopoulos, “Multi-scale Structure and Dynamics of Dendronized Polymers with Varying Generations”, *Macromolecules*, **54**, 235-248 (2021)
231. N. A. Burger, A. Mavromanolakis, G. Meier, P. Brocorens, R. Lazzaroni, L. Bouteiller, B. Loppinet, and D. Vlassopoulos, “Stabilization of Supramolecular Polymer Phase at High Pressures”, *ACS Macro Lett.*, **10**, 321-326 (2021).
232. Y. Masubuchi, D. Vlassopoulos, G. Ianniruberto, and G. Marrucci, “Wall slip in primitive chain network simulations of shear startup of entangled polymers and its effect on the shear stress undershoot”, *J. Rheol.*, **65**, 213-223 (2021)
233. D. Parisi, S. Costanzo, Y. Jeong, J. Ahn, T. Chang, D. Vlassopoulos, J. D. Halverson, K. Kremer, T. Ge, M. Rubinstein, G. S. Grest, W. Srinin, and A. Y. Grosberg, “Nonlinear Shear Rheology of Entangled Polymer Rings”, *Macromolecules*, **54**, 2811-2827 (2021) doi.org/10.1021/acs.macromol.0c02839.
234. E. Moghimi, I. Chubak, D. Founta, K. Ntetsikas, G. Polymeropoulos, N. Hadjichristidis, C. N. Likos, and D. Vlassopoulos, “The influence of arm composition on the self-assembly of low-functionality telechelic star polymers in dilute solutions”, invited article, *Colloid Polym. Sci.*, **299**, 497-507 (2021) doi.org/10.1007/s00396-020-04742-0.
235. C. Dessi, S. Coppola, and D. Vlassopoulos, “Dynamic mechanical analysis with torsional rectangular geometry: A critical assessment of constrained warping models”, *J. Rheol.*, DOI: 10.1122/8.0000207 (2021)
236. C. Hannecart, T. Shahid, D. Vlassopoulos, F. Oosterlinck, C. Clasen, and E. van Ruymbek, “Decoding the steady elongational viscosity of monodisperse linear polymers based on tube modeling”, *J. Rheol.*, submitted (2020).
237. D. Parisi, M. Kaliva, S. Costanzo, Q. Huang, P. Lutz, J. Ahn, T. Chang, and D. Vlassopoulos, “Nonlinear rheometry of entangled polymer rings and ring-linear blends”, special issue on Ring Polymers, *J. Rheol.*, submitted (2020).
238. H. Taghipour, S. Costanzo, D. Vlassopoulos, E. van Ruymbek, and L. G. D. Hawke, “Entangled linear polymers in fast shear flows: comparison of tube-model predictions and experimental data”, *J. Rheol.*, submitted (2021).
239. P. Kardasis, N. Kalafatakis, M. Gauthier, D. Vlassopoulos, and G. Floudas, “Layers of distinct mobility in densely grafted dendrimer– arborescent polymer hybrids”, *Phys. Rev. Lett.*, submitted (2021).

240. A. Louhichi, S. Arora, C.-A. Charles, T. Phou, D. Vlassopoulos, L. Ramos and C. Ligoure, "Drop impact experiments on a small target: a tool to quantify the competition between shear and biaxial extensional viscous dissipation in the expansion dynamics of Newtonian and non-Newtonian liquid sheets", (2021).

### **Chapters in Books**

1. G. Fytas, K. Chrissopoulou, S. H. Anastasiadis, D. Vlassopoulos, and K. Karatasos, "Photon Correlation Spectroscopy of Interactive Polymer Systems", *NATO ASI, Light Scattering and Photon Correlation Spectroscopy* (E. R. Pike and J. B. Abbiss, eds.), pp. 131-140, Kluwer Academic Publishers, The Netherlands (1997).
2. D. Vlassopoulos, and S. G. Hatzikiriakos, "Rheology of Partially Miscible Polymer Blends Across the Phase Boundary", *Phase Separation in Polymer Systems: Theory and Applications* (P. K. Chan, ed.), Research Signpost, Trivandrum, India (2002).
3. D. Vlassopoulos, E. Stiakakis, and M. Kapnistos, "Model Soft Colloids out of Equilibrium: Glass-like and Re-entrant Transitions", *Rheology Reviews 2007*, Eds: D. M Binding, N. E. Hudson, and R. Keunings, pp. 179-260, The British Society of Rheology, Glasgow, U.K (2009).
4. M. Cloitre, and D. Vlassopoulos, "Rheological issues in block copolymers" *Applied Rheology* (M. Kontopoulou, ed.), Wiley, NY (2011).
5. M. Lang, D. Vlassopoulos, and W. Richtering, "Colloid Interactions and Soft Polymer Colloids", *Comprehensive Polymer Science*, 2<sup>nd</sup> Ed., vol. 1 (M. Möller, F. Kremer, eds.), Elsevier, Amsterdam (2012).
6. D. Vlassopoulos, R. Pasquino, and F. Snijkers, "Issues in Ring Polymer Rheology" *Topological Polymer chemistry / Progress in Cyclic Polymers: Syntheses, Properties and Functions* (Y. Tezuka, ed.), World Scientific Publishing, London (2012).
7. D. Vlassopoulos, and M. Cloitre, "Suspensions of Soft Colloidal Particles" in Wagner, N. J., and J. Mewis, Eds., *Theory and applications of colloidal suspension rheology*, Cambridge University Press, NY., DOI: 10.1017/9781108423038 (2021).

### **Editorial**

1. J. Tsamopoulos and D. Vlassopoulos, Guest Editors, *Journal of Non-Newtonian Fluid Mechanics*, Special Issue Honoring Professor Andreas Acrivos on the Occasion of his Retirement from the Levich Institute for Physicochemical Hydrodynamics and the City College of the CUNY., *J. Non-Newtonian Fluid Mech.*, **102** (2002).  
J. Tsamopoulos and D. Vlassopoulos, "Personal report. Dedication", *J. Non-Newtonian Fluid Mech.*, **102**, 111-113 (2002).
2. D. Vlassopoulos and G. Georgiou, Guest Editors, *Journal of Non-Newtonian Fluid Mechanics*, Special Issue with Contributions from the 3<sup>rd</sup> Annual Meeting of the European Society of Rheology, Hersonissos, Crete, Greece, April 27-29, 2006., *J. Non-Newtonian Fluid Mech.*, **146** (2007)  
D. Vlassopoulos and G. Georgiou, "3<sup>rd</sup> Annual Meeting of the European Society of Rheology, Hersonissos, Crete, Greece, April 27-29, 2006", *J. Non-Newtonian Fluid Mech.*, **146**, 1-2 (2007).
3. D. Vlassopoulos, G. Georgiou, and H. H. Winter, Guest Editors, *Rheol. Acta*, Special Issue with Contributions from the 3<sup>rd</sup> Annual Meeting of the European Society of Rheology, Hersonissos, Crete, Greece, April 27-29, 2006., *Rheol. Acta.*, **46** (2007).  
D. Vlassopoulos, G. Georgiou, and H. H. Winter, "3<sup>rd</sup> Annual Meeting of the European Society of Rheology, Hersonissos, Crete, Greece, April 27-29, 2006", *Rheol. Acta.*, **46**, 539 (2007).
4. D. Vlassopoulos, and M. Cloitre, Guest Editors, *Soft Matter*, Themed Issue on Bridging the Gap Between Hard and Soft Colloids, 2012.  
D. Vlassopoulos, and M. Cloitre, "Bridging the Gap Between Hard and Soft Colloids",



*Soft Matter*, **8**, 4010-4013 (2012).

### **Patents**

1. E. Iatrou, K. Dimas, D. Vlassopoulos, P. Bilalis, and C. Tsiblouli, "Linear five-component poly-peptidic and hybrid polymers as injectable hydrogels, which can be formed in-situ and can self-heal and respond to pH and temperature, for local and directed administration of gemcitabine", Greek patent 1009114, A61K, 57/34, C08G 69/36, 2017.

### **Invited Conference Presentations**

1. D. Vlassopoulos, "Critical Behavior in Polymer Blends", *4th Mediterranean School and Symposium on Science and Technology of Advanced Polymer Based Materials (MEDNET)*, Fodele, Crete, June 1995.
2. D. Vlassopoulos, "Dynamics and Rheology of Binary Polymer Blends", *Greek-French Polymer Workshop*, Heraklion, Crete, Greece, May 1996.
3. D. Vlassopoulos, G. Fytas, J. Roovers, T. Pakula, and G. Fleischer, "Ordering and Dynamics of Soft Spheres in Melt and Solution", *Faraday Discussion No. 112, Physical Chemistry in the Mesoscopic Regime*, Royal Society of Chemistry, Chester, U.K., April 1999.
4. D. Vlassopoulos, "Structure and Viscoelasticity of Interacting Spherical Brushes", *19<sup>th</sup> Discussion Conference of Prague Meetings on Macromolecules, Rheology of Polymer Systems*, Prague, Czech Republic, July 1999.
5. D. Vlassopoulos, "Reversible Thermal Gelation of Hyperbranched Polymers", *General Meeting 2000, APS*, Minneapolis, MN, March 2000.
6. D. Vlassopoulos, "Structure and Dynamics of Micelles and Supramolecular Assemblies in Solution and in the Melt", *The Rheological Aspects of Surfactant Based Systems, Royal Society of Chemistry Faraday Division and British Society of Rheology*, Durham, U.K., September 2000.
7. D. Vlassopoulos, "Some Open Problems in the Dynamics of Polymeric Mixtures", *PRCR3, 3<sup>rd</sup> Pacific Rim Conference on Rheology*, Vancouver, Canada, July 2001.
8. D. Vlassopoulos, "From polymers to colloids: exploring the mesoscopic regime with star polymers and micelles", *ECIS-2001, XVth Conference of the European Colloid and Interface Society*, Coimbra, Portugal, September 2001.
9. D. Vlassopoulos, "Rheometry as a Sensitive Probe of Macromolecular Architecture", *Third International Conference on the Dynamics of Polymeric Liquids*, Capri, Italy, May 2002
10. D. Vlassopoulos, I. Chalari, N. Hadjichristidis, R. J. Blackwell, J. Roovers, and T. Chang, "Viscoelastic Relaxation in Highly Branched Macromolecules", *PPS-2003 Europe/Africa Regional Meeting*, Athens, Greece, September 2003.
11. D. Vlassopoulos, E. Stiakakis, G. Petekidis, and J. Roovers, "Vitrification Phenomena in Colloidal Star Systems", *Juelich Soft Matter Days 2003*, Kerkrade, NL, November 2003.
12. D. Vlassopoulos, "Relaxation Mechanisms in Architecturally Complex Macromolecules", *General Meeting 2004, APS*, Montreal, Quebec, Canada, March 2004.
13. D. Vlassopoulos, "Using Macromolecular Architecture for Exploring Complex Dynamics", *Progress in Rheology of Biological and Synthetic Polymer Systems, IBERHEO'04*, Beza, Portugal, September 2004.
14. D. Vlassopoulos, "Dynamic response of architecturally complex systems using mechanical and optical rheometry", *Turkish-Greek-German Symposium on Polymers in Materials Science and Biology*, Koc University, Istanbul, October 2004.
15. E. Stiakakis, G. Petekidis, B. Loppinet, D. Vlassopoulos,

- “Attempts to Tailor the Flow Properties of Soft Colloidal Systems”,  
*2<sup>nd</sup> Annual European Rheology Conference*, Grenoble, France, April 2005.
16. N. Koumakis, A. LeGrand, G. Petekidis, and D. Vlassopoulos,  
 “Yielding in Dense Colloidal Systems”,  
*IFPRI Workshop and 2006 Annual Meeting*, Santa Barbara, CA, June 2006.
  17. E. Stiakakis, G. Petekidis, and D. Vlassopoulos  
 “Vitrification and Melting in Soft Colloids”,  
*Dynamics of Complex Fluids – 10 years on*, Isaac Newton Institute, Cambridge, UK, October 2006.
  18. D. Vlassopoulos,  
 “Rheology Control Using Macromolecular Architecture”,  
*Macromolecules on the Move: Where Polymer Chemistry Meets Rheology, Joint Meeting of the Belgian Polymer Group and the Belgian Group of Rheology*, Leuven, Belgium, November 2006.
  19. E. Stiakakis, M. E. Helgeson, G. Petekidis, N. J. Wagner, C. N. Likos, D. Vlassopoulos,  
 “Yielding and Aging of Soft Colloidal Glasses”,  
*233<sup>rd</sup> ACS National Meeting*, Chicago, IL, USA, March 2007.
  20. D. Vlassopoulos,  
 “Neither Reptation nor Retraction: Relaxation of Ring Polymers”,  
*4<sup>th</sup> Annual European Rheology Conference, AERC2007*, Napoli, Italy, April 2007.
  21. D. Vlassopoulos, M. Helgeson, S. Rogers, G. Petekidis, N. J. Wagner, P. T. Callaghan,  
 “Yielding Mechanisms in Colloidal Glasses”,  
*Fifth International Meeting of the Hellenic Society of Rheology*, Rhodes, Greece, June 2007.
  22. E. Anyfantakis, G. Fytas, D. Vlassopoulos, E. Bourlinos, E. Giannelis, S. K. Kumar,  
 “Observations of thermodynamics-gelation interplay in suspensions of planar nanoparticles”,  
*Soft, Colloid and Biological Matter, SOCOBIM*, Sicily, Italy, July 2007.
  23. D. Vlassopoulos,  
 “Rheological Analysis of Architecturally Complex Macromolecules”,  
*International Symposium on Polymer Analysis and Characterization (ISPAC) Short Course*, Aghios Nikolaos, Crete, Greece, September 2007.
  24. D. Vlassopoulos,  
 “Multiple Glassy States in Soft Colloidal Systems”,  
*Shear-induced organization in dense or colloidal suspensions, Workshop on Rheophysics*, Ecole Polytechnique, Ecole des Ponts, Lafarge, France, January 2008.
  25. D. Vlassopoulos,  
 “Multiple glassy states and mechanics of soft colloids”,  
*27<sup>th</sup> Annual Meeting and DPG-Spring Meeting of the Condensed Matter Section, and DRG Symposium “Rheology, Structure, and Dynamics of Complex Fluids”*, Berlin, Germany, February 25-29, 2008.
  26. E. van Ruymbeke, E. Muliawan, M. Kapnistos, D. Vlassopoulos, N. Hadjichristidis, and A. Hirao,  
 “Linear and Nonlinear Rheology of Model Cayley-Tree Polymers”,  
*235<sup>rd</sup> ACS National Meeting*, New Orleans, LA, USA, April 6-10, 2008.
  27. D. Vlassopoulos,  
 “How ‘model’ are the model experimental systems?”,  
*SOFTCOMP Annual Meeting*, Riva del Garda, Italy, May 5-6, 2008.
  28. D. Vlassopoulos,  
 “From Dendritically Polymers to Colloidal Self-Assemblies: Tuning the Rheology”,  
*ESF Exploratory Workshop on Hyperbranched Polymers as Novel Materials for Nanoscale Applications: Insight from Experiment, Theory and Simulations (HYPER-NANO)*, Fodele, Crete, May 25-28, 2008.
  29. D. Vlassopoulos,  
 “From Cooperative Diffusion to the Flow of Architecturally Complex Polymers”,  
*De Gennes Discussion Conference*, Chamonix, France, February 2-5, 2009.
  30. D. Vlassopoulos,  
 “Aging and Yield Behaviour in Model Soft Colloidal Systems”,  
*Colloids, Grains and Dense Suspensions: under Flow and under Arrest, Royal Society Discussion Meeting*, London, UK, March 9-10, 2009.
  31. B. Erwin, M. Cloitre, and D. Vlassopoulos,  
 “Rheology of Colloidal Star Glasses”,  
*13<sup>th</sup> IACIS (International Conference on Surface & Colloid Science) and 83<sup>rd</sup> ACS Colloid & Surface Science Symposium*, Columbia University, New York, NY, USA, June 14-19, 2009.
  32. B. Erwin, M. Cloitre, D. Vlassopoulos,  
 “Rheology of Glasses from Colloidal Star Polymers and Mixtures”,  
*Associations in Solution II: Structure, Function & Performance*, Tomar, Portugal, July 26-30, 2009.

33. D. Vlassopoulos,  
“Soft Glassy Rheology of Colloidal Star Polymers”,  
*42<sup>nd</sup> IUPAC Congress: Chemistry Solutions*, Glasgow, UK, August 3-7, 2009.
34. D. Vlassopoulos,  
“Molecular Rheology of Branched Polymers and Self-Assemblies”,  
*Aquitaine Conference on Polymers, Arcachon*, France, October 13-16, 2009.
35. D. Vlassopoulos,  
“Stress Relaxation in Entangled Branched Polymers”,  
*Juelich Soft Matter Days 2009*, Bonn, Germany, November 10-13, 2009.
36. D. Vlassopoulos,  
“Glassy dynamics and flow control in soft interpenetrating colloids”,  
*Colloidal, Macromolecular and Polyelectrolyte Solutions, Gordon Research Conference*, Ventura, CA, USA, February 21-26, 2010.
37. D. Vlassopoulos,  
“Multiarm Star Polymers as Model Soft Colloids”,  
*General Meeting 2010, APS*, Portland, Oregon, USA, March 15-19, 2010.
38. D. Vlassopoulos,  
“Phase/state behavior of colloidal mixtures involving star polymers”,  
*ACS National Meeting & Exposition*, San Francisco, CA, USA, March 21 – 25, 2010.
39. D. Vlassopoulos,  
“Molecular rheology of model branched polymers and self-assemblies”,  
*ACS National Meeting & Exposition*, San Francisco, CA, USA, March 21 – 25, 2010.
40. D. Vlassopoulos,  
“Dealing with Architectural Dispersity in Entangled Complex Polymers”,  
*New Trends in Polymer Rheology: Complex Architectures and Complex Environments, Softcomp-Dynacop Workshop*, San Sebastian, Spain, April 12-14, 2010.
41. D. Vlassopoulos,  
“Glassy Dynamics in Soft Interpenetrable Colloids”,  
*CECAM Workshop on Complex Dynamics of Fluids in Disordered and Crowded Environments*, Lyon, France, June 28 – July 1, 2010.
42. D. Vlassopoulos,  
“Tailoring glass-like transitions in polymer colloids”,  
*23<sup>rd</sup> General Conference of the European Physical Society, Condensed Matter Division*, Warsaw, Poland, August 30 – September 3, 2010.
43. D. Vlassopoulos,  
“Molecular Rheology with Model Polymers: Combs and Dendritics”,  
*8<sup>th</sup> Hellenic Polymer Society Symposium*, Hersonisos, Crete, Greece, October 24-29, 2010.
44. D. Vlassopoulos,  
“Stress Relaxation in Complex Model Polymers: Combs and Rings”,  
*The 9<sup>th</sup> Stadler Minerva Student Symposium, Soft Matter: Where Physics, Chemistry and Biology Meet*, Beer Sheva and Ein-Gedi, Israel, March 28-30, 2011.
45. D. Vlassopoulos,  
“Tunable Soft Colloids”,  
1<sup>st</sup> Summer Symposium on Nanomaterials and their Application to Biology and Medicine”, Adam Mickiewicz University, Poznan, Poland, June 13-16, 2011.
46. L. de Viguerie, C. Klein, U. Jonas, and D. Vlassopoulos,  
“Structure and Viscoelasticity of Fluorocarbons at the Air/Water Interface”,  
*Sixth International Meeting of the Hellenic Society of Rheology*, Athens, Greece, June 28-29, 2011.
47. D. Truzzolillo, D. Vlassopoulos, and M. Gauthier,  
“Osmotic Interactions, Glassy States and Arrested Phase Separation in Star-Linear Polymer Mixtures”,  
*CECAM Workshop on Coarse-Graining Strategies and Methodologies for Polymeric and Biomolecular Assemblies*, Lyon, France, July 5-8, 2011.
48. R. Pasquino, F. Snijkers, and D. Vlassopoulos,  
“Are true model systems crucial for further progress in polymer dynamics?”  
*Thermodynamics 2011*, Athens, Greece, September 1-3, 2011.
49. D. Truzzolillo, M. Gauthier, and D. Vlassopoulos,  
“Osmotic interactions and solid-liquid transitions in soft colloid – polymer mixtures”,  
*Viscoplastic Fluids: From Theory to Application*, Rio de Janeiro, Brazil, November 6-10, 2011.
50. D. Vlassopoulos,  
“Diagnosing and inducing state changes in polymeric materials using rheological tools”,

- Journées des Jeunes Rhéologues, JJR-2012*, Saint-Rémy-les-Chevreuse, France, March 21-23, 2012.
51. D. Truzzolillo, N. Vogel, B. Loppinet, and D. Vlassopoulos,  
“Structural and viscoelastic properties of particle monolayers at the air-water interface”,  
*XVth International Congress on Rheology*, Lisbon, Portugal, August 5-10, 2012.
  52. F. Snijkers, H. Lentzakis, D. Vlassopoulos, P. Driva, and N. Hadjichristidis,  
“Entangled branched polymers in nonlinear shear and extension”,  
*9th Hellenic Polymer Society Conference*, Thessaloniki, Greece, November 29 – December 1, 2012.
  53. D. Vlassopoulos,  
“Gels from hairy nanoparticles in polymeric matrices”,  
*General Meeting 2013, APS*, Baltimore, Maryland, USA, March 18-22, 2013.
  54. D. Truzzolillo, M. Gauthier, and D. Vlassopoulos,  
“Soft colloidal mixtures: a paradigm of rich, tunable rheology”,  
*8th Annual European Conference on Rheology*, Leuven, Belgium, April 4-6, 2013.
  55. D. Vlassopoulos,  
“Metastable states and rheological transitions in soft colloids”,  
*Progress and perspectives in rheology: SRJ's 40th Anniversary Symposium*, Society of Rheology Japan (SRJ), Kyoto, Japan, May 16-17, 2013.
  56. D. Vlassopoulos,  
“Entanglement dynamics in complex polymers: combs and rings”,  
*Telluride Polymer Physics Conference*, Telluride, CO, USA, May 16-20, 2013.
  57. D. Vlassopoulos,  
“Dynamics in mixtures of architecturally complex entangled homopolymers”,  
*7th International Discussion Meeting on Relaxations in Complex Systems*, Barcelona, Spain, July 21-26, 2013.
  58. D. Vlassopoulos,  
“Rheology of entangled branched polymers with varying number and size of branches”  
*KAUST polymer conference: from synthesis to properties to applications*, King Abdullah University of Science and Technology (KAUST), Thuwal, Kingdom of Saudi Arabia, November 9-13, 2013.
  59. F. Snijkers, H. Lentzakis, N. Hadjichristidis, T. Chang, D. Read, C. Das, G. Ianniruberto, G. Marrucci, E. vanRuymbeke, and D. Vlassopoulos,  
“Molecular rheology of entangled branched polymers using combs”,  
*9th Annual European Rheology Conference, AERC2014*, Karlsruhe, Germany, April 8-11, 2014.
  60. D. Vlassopoulos,  
“Entanglement dynamics and architectural dispersity in model nonlinear polymers”,  
*Gordon Polymer Physics Conference*, Mount Holyoke College, South Hadley, MA, July 13-18, 2014.
  61. D. Vlassopoulos,  
“Looking for consequences of knotting on the properties of experimental ring polymers”,  
*CECAM Workshop, Knots in Soft Condensed Matter*, Vienna, Austria, September 10-13, 2014.
  62. D. Vlassopoulos,  
“Outstanding challenges in polymer dynamics: on the role of branches and free ends”  
*10th Annual Polymer Day*, Danish Polymer Center, Technical University of Denmark (DTU), Lyngby, Denmark, November 21, 2014.
  63. D. Vlassopoulos,  
“Model entangled branched polymers in shear and extension”,  
*European Science & Engineering Programme (ESPEP), 25th Birthday Symposium*, ExxonMobil Chemical Europe, Brussels, Belgium, December 10, 2014.
  64. D. Vlassopoulos,  
“Entangled linear, branched and hyperbranched polymers in shear flow”,  
*General Meeting 2015, APS*, San Antonio, Texas, USA, March 2-6, 2015.
  65. D. Vlassopoulos,  
“Regular highly branched polymers: from polymeric to colloidal properties”,  
*249th ACS National Meeting*, Denver, CO, USA, March 23-25, 2015.
  66. D. Vlassopoulos,  
“Outstanding challenges in entanglement dynamics: beyond the classic picture”,  
*Weissenberg lecture, 10th Annual European Rheology Conference, AERC2015*, Nantes, France, April 14-17, 2015.
  67. D. Vlassopoulos,  
“Tunable rheology of dendronized polymers via local branching and bonding”,  
*Mason Award Symposium of the Canadian Society of Rheology Conference*, Montreal, Canada, May 20, 2015.

68. D. Vlassopoulos,  
“Tunable rheology of soft colloids”,  
*Special Rheology Symposium of the Hellenic Society of Rheology in Honor of Professor Roger I. Tanner on the occasion of his 82<sup>nd</sup> birthday*, Samos, Greece, June 29 – July 3, 2015.
69. D. Vlassopoulos,  
“The unusual rheology of cyclic polymers and their mixtures”,  
*7<sup>th</sup> International Symposium on Engineering Plastics*, Xining, China, August 18 – 21, 2015.
70. D. Vlassopoulos,  
“From polymeric to colloidal stars: tailoring the flow of soft matter at molecular scale”,  
*2<sup>nd</sup> Workshop on Progress in Bio- and Nanotechnology, BioNanoWorkshop 2015*, Lodz, Poland, September 28-29, 2015.
71. D. Vlassopoulos,  
“Polymers under topological constraints: a rheological journey from entanglements to nanocomposites”,  
*32<sup>nd</sup> International conference of the Polymer Processing Society, PPS-32*, Lyon, France, July 25-29, 2016.
72. S. Costanzo, Q. Huang, G. Ianniruberto, G. Marrucci, O. Hassager, and D. Vlassopoulos,  
“Response of polystyrene melts and solutions with the same number of entanglements in simple shear and uniaxial extension”,  
*XVIIth International Congress on Rheology*, Kyoto, Japan, August 8-13, 2016.
73. M. C. Merola, S. Bochner, D. Vlassopoulos, and G. G. Fuller,  
“Asphaltenes at oil-water interfaces and their role in coalescence”,  
*New aspects of micro- and macroscopic flows in soft matter, Okinawa Institute of Science and Technology (OIST) Graduate University and The Society of Rheology Japan (SRJ) joint Workshop*, Okinawa, Japan, August 15-17, 2016.
74. D. Vlassopoulos,  
“Polymer entanglements, rings and topological mixtures: exploring and tailoring the flow properties of soft matter”,  
*4<sup>th</sup> International Soft Matter Conference (ISMC)*, Grenoble, France, September 12-16, 2016.
75. S. Costanzo, D. Vlassopoulos, G. Ianniruberto, and G. Marrucci,  
“Decoding the response of polymers in simple shear flows”,  
*11<sup>th</sup> Hellenic Polymer Society International Conference (ELEP)*, Heraklion, Greece, November 3-5, 2016.
76. D. Vlassopoulos,  
“Challenges in the dynamics of entangled polymers in strong flows and in confinement”,  
*British Society of Rheology Midwinter Meeting, The Science of Alexei Likhtman*, University of Reading, UK, December 12-14, 2016.
77. D. Vlassopoulos,  
“Rheology modification with ring polymers”,  
*General Meeting 2017, APS*, New Orleans, LA, USA, March 12-16, 2017.
78. D. Vlassopoulos,  
“Rheology modification with ring polymers”,  
*11<sup>th</sup> Annual European Rheology Conference, AERC2017*, Copenhagen, Denmark, April 3-6, 2017.
79. D. Vlassopoulos,  
“Tuning the performance of polymers: on the role of thickness, associations and free ends”,  
*10<sup>th</sup> Liquid Matter Conference, Liquids 2017*, Ljubljana, Slovenia, July 17-21, 2017.
80. D. Vlassopoulos,  
“Nonlinear shear rheometry of entangled polymers”,  
*12<sup>th</sup> Hellenic polymer society international conference*, Ioannina, Greece, September 30 – October 3, 2018.
81. D. Vlassopoulos,  
“Nonlinear shear rheometry of entangled polymers”,  
*IUTAM symposium on the dynamics of complex fluids and interfaces*, IIT Kanpur, India, December 17-20, 2018.
82. L. Gury, M. Gauthier, M. Cloitre and D. Vlassopoulos,  
“Searching for universal features of soft deformable colloids: a comparison of the rheology of dense microgel and star polymer suspensions”,  
*2019 MRS Spring meeting*, Phoenix, AZ, April 22-26, 2019.
83. D. Vlassopoulos,  
“Rheological surprises with ring polymers”,  
*30<sup>th</sup> Anniversary Meeting of the Korean Society of Rheology, KSR30*, Seoul, Korea, May 21-24, 2019.
84. D. Vlassopoulos,  
“High-shear rheometry of polymer melts and solutions”,  
*European Polymer Congress EPF 2019*, Hersonissos, Crete, Greece, June 9-14, 2019.

85. D. Vlassopoulos,  
"Molecular rheology and synthetic chemistry: a critical partnership for designing flow-responsive matter",  
*Bingham lecture, 91<sup>th</sup> Annual Meeting of the Society of Rheology*, Raleigh, NC, October 20-24, 2019.
86. D. Vlassopoulos,  
"Viscoelastic properties of supramolecular gels and mixtures based on hydrogen bonding",  
*2020 virtual MRS spring/fall meeting*, November 27 – December 4, 2020.
87. N. Burger, B. Loppinet, A. Mavromanolakis, D. Vlassopoulos, G. Meier, L. Bouteiller, N. Hadjichristidis,  
"Dynamics and viscoelasticity of supramolecular assemblies at high pressures",  
*XVIIIth International Congress on Rheology*, virtual (Rio de Janeiro, Brazil), December 14-17, 2020.

#### **Contributed Conference Presentations (presenter)**

1. D. Vlassopoulos and W.R. Schowalter,  
"Characterization of Non-Newtonian Flow Behavior Through Studies of Steady Streaming",  
*AIChE National Meeting*, Chicago, Illinois, November 1990.
2. D. Vlassopoulos and W.R. Schowalter,  
"Non-Viscometric Flow Characterization of Polymer and Surfactant Solutions",  
*2nd International Discussion Meeting on Relaxations in Complex Systems*, Alicante, Spain, June 1993.
3. T. Jian, D. Vlassopoulos, G. Fytas, W. Brown, and T. Pakula,  
"Dynamic Light Scattering and Viscoelasticity",  
*2<sup>nd</sup> International Discussion Meeting on Relaxations in Complex Systems*, Alicante, Spain, June 1993.
4. D. Vlassopoulos and W.R. Schowalter,  
"Rheological Characterization of Drag-Reducing Fluids",  
*Sixth International Symposium on Polymer Analysis and Characterization (ISPAC-6)*, Aghia Pelaghia, Crete, July 1993.
5. D. Vlassopoulos and W.R. Schowalter,  
"Rheological Characterization of Dilute Polymer Solutions",  
*3rd Panhellenic Polymer Conference*, Thessaloniki, December 1993.
6. D. Vlassopoulos, G. Fytas, G. Meier and A. N. Semenov,  
"Composition Fluctuations Induced Dynamic Light Scattering from Binary Polymer Blends",  
*MRS Fall 1995 Meeting*, Boston, MA, November 1995.
7. D. Vlassopoulos, M. Kapnistos and S. H. Anastasiadis,  
"Quantifying the Rheological Behavior of Polymer Blends near the Phase Separation",  
*General Meeting 1996, APS*; St. Louis, MO, March 1996.
8. D. Vlassopoulos,  
"Fluctuation-Induced Phenomena in Polymer Blends",  
*NATO ASI "Theoretical Challenges in Complex Fluid Dynamics"*, Cambridge, U.K., March-April 1996.
9. D. Vlassopoulos,  
"Dynamics and Rheology of Binary Polymer Blends",  
*Greek-French Polymer Workshop*, Heraklion, Crete, Greece, May 1996.
10. M. Kapnistos, D. Vlassopoulos, S. H. Anastasiadis, A. Hinrichs and B. A. Wolf,  
"Rheology of a LCST Polymer Blend in the Homogeneous, Phase Separated and Transitional Regimes",  
*5th European Symposium on Polymer Blends*, Maastricht, The Netherlands, May 1996.
11. D. Vlassopoulos,  
"Rheology of Critical Polymer Mixtures",  
*Symposium on Rheology and Computational Fluid Mechanics dedicated to the memory of Professor T. Papanastasiou*, Nicosia, Cyprus, July 1996.
12. M. Kapnistos, D. Vlassopoulos, and S. H. Anastasiadis,  
"Rheology of UCST and LCST Polymer Blends Near the Phase Separation",  
*XIIIth International Congress on Rheology*, Quebec City, Canada, August 1996.
13. T. Jian, D. Vlassopoulos, G. Fytas, T. Pakula, and W. Brown,  
"Dynamic Light Scattering and Linear Viscoelasticity in Concentrated Polymer Solutions",  
*XIIIth International Congress on Rheology*, Quebec City, Canada, August 1996.
14. D. Vlassopoulos, G. Petekidis, K. Andrikopoulos, G. Voyiatzis, E. I. Kamitsos, Y. Yiannopoulos and A. Bruggeman,  
"Raman and FTIR Studies of the Effects of Draw Ratio and Side Chain Length on the Molecular Orientation of Polyester Films",  
*ACS National Meeting*, Orlando, Florida, August 1996.
15. D. Vlassopoulos, K. Karatasos, G. Fytas, T. Pakula and J. Roovers,  
"Complex Viscoelastic Relaxation in Multiarm Star Polymers",

- 67th Annual Meeting of the Society of Rheology, Galveston, TX, February 1997.
16. D. Vlassopoulos, M. Kapnistos and S. H. Anastasiadis,  
"Linear and Nonlinear Viscoelastic Behavior of Polymer Blends Near Phase Separation",  
*General Meeting 1997, APS*, Kansas City, MO, March 1997.
  17. D. Vlassopoulos,  
"Rheology and Thermodynamics in Multicomponent Polymers",  
*1st Panhellenic Chemical Engineering Conference*, Patras, Greece, May 1997.
  18. D. Vlassopoulos, G. Petekidis, R. Seghrouchni, G. Fytas, A. N. Semenov, J. Roovers, and G. Fleischer,  
"Dynamics of Multiarm Star Polymer Solutions",  
*71st ACS Colloid and Surface Science Symposium*, Newark, Delaware, June-July 1997.
  19. D. Vlassopoulos, G. Petekidis, G. Fytas, A. N. Semenov and J. Roovers,  
"Dynamics of Multiarm Star Polymer Solutions",
  20. D. Vlassopoulos,  
"Self-assembly and Dynamics in Multiarm Star Polymers",  
*4th Panhellenic Polymer Conference*, Patras, November 1997.
  21. D. Vlassopoulos, G. A. Voyiatzis, and S. H. Anastasiadis,  
"Structure and Properties of Environmentally Acceptable Industrial Coatings",  
*2nd Symposium on Chemical Research and Industry*, Demokritos, Athens, Greece, December 1997.
  22. D. Vlassopoulos, G. Fytas, T. Pakula, J. Roovers and A. N. Semenov,  
"Dynamics of Multiarm Star Polymers in the Ordering Region",  
*General Meeting 1998, APS*, Los Angeles, CA, March 1998.
  23. D. Chopra, D. Vlassopoulos, and S. G. Hatzikiriakos,  
"Shear-Induced Mixing and Demixing in Poly(styrene-co-maleic anhydride) / Poly(methyl methacrylate) Blends",  
*5th European Rheology Conference*, Portoroz, Slovenia, September 1998.
  24. G. Petekidis, D. Vlassopoulos, G. Fytas, R. Rulken, and G. Wegner,  
"Dynamics and Rheology of Hairy-Rod Polymers"  
*5th European Rheology Conference*, Portoroz, Slovenia, September 1998.
  25. M. Kapnistos, D. Vlassopoulos, G. Fytas, J. Roovers, T. Pakula, and G. Fleischer,  
Ordering and Dynamics of Model Soft Spheres: Multiarm Star Polymers",  
*5th European Rheology Conference*, Portoroz, Slovenia, September 1998.
  26. D. Vlassopoulos, M. Kapnistos, G. Fytas, T. Pakula, A. N. Semenov, and J. Roovers,  
Structure and Dynamics of Multiarm Star Polymers",  
*70th Annual Meeting of the Society of Rheology*, Monterey, CA, October 1998.
  27. D. Vlassopoulos, G. Petekidis, L. Hilliou, G. Fytas, R. Rulken, and G. Wegner,  
"Dynamics and Rheology of Hairy-Rod Polymers",  
*70th Annual Meeting of the Society of Rheology*, Monterey, CA, October 1998.
  28. D. Vlassopoulos, G. Petekidis, B. Loppinet, G. Fytas, G. Wegner, T. Sato, and A. Teramoto,  
"Diffusion, Orientation and Rheology in Hairy-Rod Polymers"  
*Europhysics Conference on Macromolecular Physics, Eurorheo 99-1, "Rheology, Rheo-Physics and Flow-Induced Structures of Liquid Crystalline Polymers, Surfactants and Block Copolymers"*, Sophie-Antipolis, France, May 1999.
  29. D. Vlassopoulos, G. Fytas, M. Casagrande, M. Stamm, and J. Roovers,  
"Structure and Dynamics in Mixtures of Topologically Different Homopolymers",  
*6th European Symposium on Polymer Blends*, Max-Planck Institut für Polymerforschung, Mainz, Germany, May 1999.
  30. D. Chopra, D. Vlassopoulos, and S. G. Hatzikiriakos,  
"Linear and Nonlinear Rheology in Blends of Poly(styrene-co-maleic anhydride) and Poly(methyl methacrylate)",  
*6th European Symposium on Polymer Blends*, Max-Planck Institut für Polymerforschung, Mainz, Germany, May 1999.
  31. M. Kapnistos and D. Vlassopoulos,  
"Phase Transitions and Rheological Behavior in Model Polymeric and Colloidal Systems",  
*2nd Panhellenic Chemical Engineering Conference*, Thessaloniki, Greece, May 1999.
  32. D. Vlassopoulos, M. Kapnistos, G. Fytas, J. Roovers,  
"Structure and Rheology of Model Branched Polymers",  
*PPS-15*, Hertogenbosch, The Netherlands, May-June 1999.
  33. D. Vlassopoulos, G. Fytas, M. Pitsikalis, N. Hadjichristidis and T. Pakula,  
"Controlling the Self-Assembly and Dynamic Response of Star Polymers by Selective Telechelic Functionalization"

- ACS National Meeting, New Orleans, Louisiana, August 1999.
34. D. Vlassopoulos, M. Kapnistos, G. Fytas and J. Roovers,  
"Dynamics of Interacting Spherical Polymer Brushes",  
ACS National Meeting, New Orleans, Louisiana, August 1999.
  35. D. Vlassopoulos,  
"Complex Interplay of Structure and Rheology in Model Ultrasoft Polymeric Spheres",  
Southern Europe Conference on Rheology, Calabria, September 1999.
  36. D. Vlassopoulos, M. Kapnistos, G. Fytas and J. Roovers,  
"Reversible Thermal Gelation in Ultrasoft Spheres",  
European Research Conference on Interfaces and Colloidal Systems: Interfacial Behavior in Polymer and Colloidal Systems, Aghia Pelaghia, September 1999.
  37. D. Vlassopoulos, R. Sigel, G. Fytas, S. Pispas, and N. Hadjichristidis,  
"Structure and Dynamics of Giant Block Copolymer Micelles",  
71<sup>th</sup> Annual Meeting of the Society of Rheology, Madison, WI, October 1999.
  38. D. Vlassopoulos, T. Pakula, G. Fytas, M. Pitsikalis, and N. Hadjichristidis,  
"Dynamic Response of Functionalized Star Polymer Melts",  
71<sup>th</sup> Annual Meeting of the Society of Rheology, Madison, WI, October 1999.
  39. D. Vlassopoulos, R. Sigel, G. Fytas, S. Pispas and N. Hadjichristidis,  
"Anomalous Collective Diffusion of Diblock Copolymer Micelles",  
Polymeric Surfactants, EPF Workshop, Kolle-Kolle, Denmark, June 2000.
  40. D. Vlassopoulos, G. Fytas, and P. J. Lutz,  
"Structure and Dynamics of Polymacromonomers",  
XIII<sup>th</sup> International Congress on Rheology, Cambridge, U.K., August 2000.
  41. D. Vlassopoulos,  
"From Hairy Balls to Hairy Rods: Using Macromolecular Chemistry to Bridge the Gap Between Polymers and Colloids",  
35<sup>eme</sup> Colloque Annuel du Groupe Francais de Rheologie, Grenoble, France, October 2000.
  42. E. Stiakakis, D. Vlassopoulos, G. Fytas, and J. Roovers,  
"Dynamics of Topological Mixtures",  
72<sup>nd</sup> Annual Meeting of the Society of Rheology, Hilton Head Island, SC, February 2001.
  43. D. Vlassopoulos and T. Pakula,  
"Relaxation Mechanisms in Hyperstar Melts",  
Third International Meeting of the Hellenic Society of Rheology Dedicated to Professor Andreas Acrivos on the Occasion of his Retirement, Patras, Greece, June 2001.
  44. D. Vlassopoulos, E. Stiakakis, J. Roovers, and C. N. Likos,  
"Kinetic Phase Diagrams of Star Polymers",  
73<sup>rd</sup> Annual Meeting of the Society of Rheology, W.R. Schowalter Symposium, Bethesda, MD, October 2001.
  45. D. Vlassopoulos, and T. Pakula,  
"Relaxation Mechanisms in Topologically Complex Macromolecules",  
Sixth European Rheology Conference, Erlangen, Germany, September 2002.
  46. E. Stiakakis, D. Vlassopoulos, C. N. Likos, G. Meier, and J. Roovers,  
"Gelation-like Transition in Ultrasoft Spheres",  
Sixth European Rheology Conference, Erlangen, Germany, September 2002.
  47. D. Vlassopoulos, and J. Roovers,  
"Dynamics of Star/Linear Polymeric Systems",  
74<sup>th</sup> Annual Meeting of the Society of Rheology, G. Marrucci Symposium, Minneapolis, MN, October 2002.
  48. A. Asteriadi, R. Sigel, D. Vlassopoulos, G. Meier, J. R. Dorgan, and D. M. Knauss,  
"Viscosity of Dendritically Branched Polymer Solutions: from Polymeric to Colloidal Behavior",  
1<sup>st</sup> Annual European Rheology Conference, Guimaraes, Portugal, September 2003.
  49. E. Stiakakis, D. Vlassopoulos, G. Petekidis, J. Roovers, and C. Likos,  
"Glass-like Kinetic Transitions and Osmotic Interactions in Mixtures of Soft Colloidal Spheres and Polymers",  
XIX<sup>th</sup> Panhellenic Solid State Physics – Materials Science Conference, Thessaloniki, Greece, September 2003.
  50. E. Stiakakis, G. Petekidis, D. Vlassopoulos, and J. Roovers,  
"Soft Colloid – Polymer Mixtures: Kinetic Transitions and Osmotic Interactions",  
75<sup>th</sup> Annual Meeting of the Society of Rheology, Pittsburgh, PA, October 2003.
  51. M. Kapnistos, D. Vlassopoulos, J. Roovers, I. Chalari, N. Hadjichristidis, and R. Blackwell,  
"Linear Melt Rheology of Cayley Trees, Combs, and Star-Combs",  
75<sup>th</sup> Annual Meeting of the Society of Rheology, Pittsburgh, PA, October 2003.



52. G. Petekidis, V. Carrier, D. Vlassopoulos, and M. Ballauff,  
“Rearrangements and Yielding in Concentrated Suspensions of Hard and Soft Colloids”,  
*General Meeting 2004, APS*, Montreal, Quebec, Canada, March 2004.
53. D. Vlassopoulos, W. M. Holmes, P. T. Callaghan, and J. Roovers,  
“Observation of shear banding in ultrasoft colloidal gels”,  
*Fourth International Meeting of the Hellenic Society of Rheology*, Athens, Greece, June 2004.
54. K. Pham, G. Petekidis, P. N. Pusey, W. C. K. Poon, and D. Vlassopoulos,  
“Yielding and Flow of Colloidal Glasses and Gels”,  
*76<sup>th</sup> Annual Meeting of the Society of Rheology*, Lubbock, TX, February 2005.
55. M. Kapnistos, D. Vlassopoulos, J. Roovers, N. Hadjichristidis, and L. G. Leal,  
“Rheology of Architecturally Complex Polymer Melts”,  
*76<sup>th</sup> Annual Meeting of the Society of Rheology*, Lubbock, TX, February 2005.
56. K. Pham, G. Petekidis, P. N. Pusey, W. C. K. Poon, and D. Vlassopoulos,  
“Yielding and Flow in Colloidal Glasses and Gels”,  
*77<sup>th</sup> Annual Meeting of the Society of Rheology*, Vancouver, Canada, October 2005.
57. E. Stiakakis, G. Petekidis, and D. Vlassopoulos,  
“Rheology and Ageing in Soft Colloidal Glasses”,  
*78<sup>th</sup> Annual Meeting of the Society of Rheology*, Portland, ME, October 2006.
58. M. Kapnistos, M. Lang, M. Rubinstein, J. Roovers, T. Chang, and D. Vlassopoulos,  
“Viscoelastic Relaxation in Cyclic Polymers and Cyclic-Linear Polymer Blends”,  
*78<sup>th</sup> Annual Meeting of the Society of Rheology*, Portland, ME, October 2006.
59. M. Kapnistos, E. van Ruymbeke, J. Roovers, M. Pitsikalis, H. Iatrou, N. Hadjichristidis,  
and D. Vlassopoulos,  
“Viscoelastic Relaxation in Architecturally Complex Macromolecules”,  
*6<sup>th</sup> Hellenic Polymer Society Meeting, Tadeusz Pakula Memorial Symposium*, Patras, Greece, November 2006.
60. C. Christopoulou, E. Stakakis, G. Petekidis, and D. Vlassopoulos,  
“Slow Dynamics and Ageing of Soft Colloids”,  
*81st ACS Colloid and Surface Science Symposium*, Newark, Delaware, June 2007.
61. E. van Ruymbeke, E. Muliawan, D. Vlassopoulos, S. G. Hatzikiriakos, A. Hirao, and N. Hadjichristidis,  
“Linear and Nonlinear Rheology of Model Cayley-tree Polymers”,  
*79<sup>th</sup> Annual Meeting of the Society of Rheology*, Salt Lake City, UT, October 2007.
62. D. Vlassopoulos,  
“Towards a Phenomenological Description of the Yielding Mechanisms in Colloidal Glasses”,  
*Universal Aspects of Soft Matter: Slow Dynamics*, San Sebastian, Spain, December 2007.
63. C. Christopoulou, U. Jonas, D. Vlassopoulos, C. Clark, and G. Fytas,  
“Viscoelasticity of Semifluorinated Alkanes at the Air-Water Interface”,  
*XVth International Congress on Rheology*, Monterey, CA, August 3-8, 2008.
64. E. vanRuymbeke, E. B. Muliawan, M. Kapnistos, D. Vlassopoulos, A. Hirao, and N. Hadjichristidis,  
“Architecturally Complex Polymers: Viscoelasticity and Extensional Rheology”,  
*XVth International Congress on Rheology*, Monterey, CA, August 3-8, 2008.
65. L. Balacca, C. Coppola, S. Righi, E. vanRuymbeke, and D. Vlassopoulos,  
“Decoding the Viscoelastic Response of Polydisperse Star/Linear Polymer Blends”,  
*XVth International Congress on Rheology*, Monterey, CA, August 3-8, 2008.
66. C. Christopoulou, D. Vlassopoulos, and U. Jonas,  
“Viscoelasticity of Semifluorinated Alkanes at the Air-Water Interface”,  
*5<sup>th</sup> Annual European Conference on Rheology*, Cardiff, UK, April 15-17, 2009.
67. E. Stiakakis, B. Erwin, M. Cloitre, and D. Vlassopoulos,  
“Multiple Glasses in Colloidal Star Mixtures”,  
*81<sup>st</sup> Annual Meeting of the Society of Rheology*, Madison, WI, USA, October 18-22, 2009.
68. B. Erwin, S. Rogers, M. Cloitre, and D. Vlassopoulos,  
“Consequences of Yielding in Soft Colloidal Glasses”,  
*Viscoplastic Fluids: From Theory to Application*, Limassol, Cyprus, November 1-5, 2009.
69. B. M. Erwin, M. Cloitre, and D. Vlassopoulos,  
“Dynamics and Rheology of Colloidal Star Polymer Solutions”,  
*6<sup>th</sup> Annual European Conference on Rheology*, Göteborg, Sweden, April 7-9, 2010.
70. D. Vlassopoulos, and E. van Ruymbeke,  
“Viscoelastic Relaxation of Entangled Exact Comb Polymers”,  
*6<sup>th</sup> Annual European Conference on Rheology*, Göteborg, Sweden, April 7-9, 2010.

71. R. Pasquino, S. Rogers, F. Snijkers, D. Vlassopoulos, G. Sakellariou, T. Vassilakopoulos, N. Hadjichristidis, H. Lee, Y. C. Jeong, T. Chang, M. Lang, and M. Rubinstein, “Dynamics of Moderately Entangled Ring Polymers”, *82<sup>nd</sup> Annual Meeting of the Society of Rheology*, Santa Fe, NM, USA, October 24-28, 2010.
72. F. Snijkers, D. Vlassopoulos, “Nonlinear Shear Rheology of Entangled Polymers Measured with Cone-Partitioned Plate”, *83<sup>rd</sup> Annual Meeting of the Society of Rheology*, Cleveland, OH, USA, October 10-14, 2011.
73. B. M. Erwin, D. Vlassopoulos, M. Cloitre, and M. Gauthier, “Unique Slow Dynamics and Aging Phenomena in Soft Glassy Suspensions of Multiarm Star Polymers”, *83<sup>rd</sup> Annual Meeting of the Society of Rheology*, Cleveland, OH, USA, October 10-14, 2011.
74. B. Truzzolillo, D. Vlassopoulos, and M. Gauthier, “State Diagram of Soft Colloid – Polymer Mixtures” *84<sup>rd</sup> Annual Meeting of the Society of Rheology*, Pasadena, CA, USA, October 10-14, 2013.
75. R. Pasquino D. Vlassopoulos, G. Sakellariou, N. Hadjichristidis, T. Chang, and M. Rubinstein, “Viscoelastic properties of critically purified cyclic polymers over a wide range of molecular weights”, *ACS National Meeting & Exposition*, New Orleans, LA, USA, April 7-11, 2013.
76. F. Snijkers, D. Vlassopoulos, T. Chang, G. Ianniruberto, and G. Marrucci, “Stress overshoots in simple shear flow of entangled combs”, *85<sup>rd</sup> Annual Meeting of the Society of Rheology*, Montréal, Québec, Canada, October 13-17, 2013.
77. D. Vlassopoulos, F. Snijkers, R. Pasquino, E. van Ruymbeke, M. Rubinstein, T. Chang, N. Hadjichristidis, and G. Sakellariou, “Searching for model nonlinear polymers: Architectural disparity and viscoelasticity” *6<sup>th</sup> Pacific Rim Conference on Rheology*, Melbourne, Australia, July 20-25, 2014.
78. D. Truzzolillo, J. Marakis, and D. Vlassopoulos, “Metastability and arrested phase separation in asymmetric mixtures of soft and hard colloids”, *86<sup>th</sup> Annual Meeting of the Society of Rheology*, Philadelphia, PA, October 5-9, 2014.
79. S. Costanzo, L. Scherz, T. Schweizer, M. Kröger, A. D. Schlüter, and D. Vlassopoulos, “Interpenetration, entanglements and bonding interactions in dendronized polymers”, *87<sup>th</sup> Annual Meeting of the Society of Rheology*, Baltimore, MD, October 11-15, 2015.
80. D. Parisi, D. Truzzolillo, M. C. Merola, and D. Vlassopoulos, “Soft colloid – polymer mixtures as extreme size ratios: gelation and confinement effects”, *88<sup>th</sup> Annual Meeting of the Society of Rheology*, Tampa, FL, February 12-16, 2017.
81. S. Costanzo, and D. Vlassopoulos, “Attempts to measure shear viscosity and normal stresses in polymer melts”, *8<sup>th</sup> International conference of the Hellenic Society of Rheology*, Limassol, Cyprus, July 12-14, 2017.
82. S. Costanzo, Z-C. Yan, D. Parisi, and D. Vlassopoulos, “Tailoring rheological response via thickness and macromolecular architecture”, *89<sup>th</sup> Annual Meeting of the Society of Rheology*, Denver, CO, October 8-12, 2017.
83. S. Costanzo, G. Ianniruberto, G. Marrucci, and D. Vlassopoulos, “Measurements of shear viscosity and normal stresses in entangled polymers”, *General Meeting 2013, APS, Session Honoring W. W. Graessley*, Los Angeles, CA, March 3-9, 2018.
84. S. Costanzo, G. Ianniruberto, G. Marrucci, and D. Vlassopoulos, “First and Second Normal Stress Differences in Polymer Fluids”, *12<sup>th</sup> Annual European Rheology Conference, AERC2018*, Sorento, Italy, April 17-20, 2018.
85. S. Costanzo, D. Parisi, and D. Vlassopoulos, “Nonlinear shear rheometry of melts and concentrated solutions of polymers with varying molecular structure”, *90<sup>th</sup> Annual Meeting of the Society of Rheology*, Houston, TX, October 14-18, 2018.
86. E. Moghimi, D. Vlassopoulos, C. N. Likos, and N. Hadjichristidis, “Telechelic star polymers as models for soft-patchy colloids with tunable rheology”, *90<sup>th</sup> Annual Meeting of the Society of Rheology*, Houston, TX, October 14-18, 2018.
87. D. Parisi, S. Costanzo and D. Vlassopoulos, “Viscoelasticity, transient shear stress and thinning of ring polymers and their mixtures”, *13<sup>th</sup> Annual European Rheology Conference, AERC2019*, Portoroz, Slovenia, April 8-11, 2019.
88. E. Vereroudakis, A. Louhich and D. Vlassopoulos, “Rheology sensitively probes water-mediated changes of supramolecular structure”, *9<sup>th</sup> International meeting of the Hellenic Society of Rheology, HSR2019*, Samos, Greece, June 23-27, 2019.
89. L. Gury, D. Parisi, M. Cloitre and D. Vlassopoulos, “Comparative rheological study of dense microgel and star polymer suspensions”, *9<sup>th</sup> International meeting of the Hellenic Society of Rheology, HSR2019*, Samos, Greece, June 23-27, 2019.
90. D. Parisi, E. Vereroudakis, Y. Masubuchi, G. Ianniruberto, G. Marrucci, D. Vlassopoulos,

“Assessment of transient shear response of entangled polymers”,  
*Annual European Rheology Conference, Cyberspace, April 13-14, 2021.*

### **Conference Proceedings**

1. D. Vlassopoulos and S. G. Hatzikiriakos,  
 "A Generalized Giesekus Constitutive Model with Retardation Time",  
*Proceedings of the 44th Canadian Chemical Engineering Conference*, Calgary, Canada, 1994.
2. M. Kapnistos, D. Vlassopoulos, S. H. Anastasiadis, A. Hinrichs, and B. A. Wolf,  
 "Rheology of a LCST Polymer Blend in the Homogeneous, Phase Separated and Transitional Regimes",  
*Proceedings of the 5th European Symposium on Polymer Blends*, Maastricht, The Netherlands, 1996.
3. M. Kapnistos, D. Vlassopoulos, and S. H. Anastasiadis,  
 "Rheology of UCST and LCST Polymer Blends Near the Phase Separation",  
*Proceedings of the XIIth Congress on Rheology*, Quebec City, Canada, 1996.
4. T. Jian, D. Vlassopoulos, G. Fytas, T. Pakula, and W. Brown,  
 "Dynamic Light Scattering and Linear Viscoelasticity in Concentrated Polymer Solutions",  
*Proceedings of the XIIth Congress on Rheology*, Quebec City, Canada, 1996.
5. D. Vlassopoulos,  
 "Rheology of Critical Polymer Mixtures",  
*Proceedings of the Symposium on Rheology and Computational Fluid Mechanics (dedicated to the memory of Professor T. C. Papanastasiou)*, Nicosia, Cyprus, 1996.
6. D. Vlassopoulos, G. Petekidis, G. Voyiatzis, E. I. Kamitsos, Y. Yiannopoulos and A. Bruggeman,  
 "Raman and FTIR Studies of the Effects of Draw Ratio and Side Chain Length on the Molecular Orientation of Polyester Films",  
*ACS Division of Polymeric Materials: Science & Engineering*, Preprint, Orlando National Meeting, 1996.
7. G. Petekidis, D. Vlassopoulos and G. Fytas,  
 "Dynamic Behavior of Isotropic Solutions of Rigid-Rod Polymers",  
*Proceedings of the XIIth Panhellenic Solid State Physics Conference*, Heraklion, Crete, Greece, 1997.
8. K. Andrikopoulos, G. Voyiatzis, G. Petekidis, D. Vlassopoulos, S. H. Anastasiadis and G. Fytas,  
 "The Use of Raman Spectroscopy to the Study of Molecular Orientation of Elongated Polymers",  
*Proceedings of the XIIth Panhellenic Solid State Physics Conference*, Heraklion, Crete, Greece, 1997.
9. M. Kapnistos, D. Vlassopoulos and S. H. Anastasiadis,  
 "Rheology of Polymer Mixtures near the Critical Point",  
*Proceedings of the XIIth Panhellenic Solid State Physics Conference*, Heraklion, Crete, Greece, 1997.
10. K. Christodoulou, S. G. Hatzikiriakos, D. Vlassopoulos and C. Heffner,  
 "Rheological Characterization of PET Resins for Flows with Significant Amount of Extension",  
*SPE Technical Paper, ANTEC Proceedings*, Toronto, Canada, 1997.
11. S. H. Anastasiadis, G. Fytas, D. Vlassopoulos, R. Seghrouchni, C. Toprakcioglu, A. N. Semenov, and A. Likhtman,  
 "Evanescent Wave Dynamic Light Scattering Investigation of End-Anchored Chains",  
*ACS Division of Polymeric Materials: Science & Engineering*, Preprint, Las Vegas National Meeting, 1997.
12. D. Vlassopoulos, T. Pakula, G. Fytas, J. Roovers, K. Karatasos and N. Hadjichristidis,  
 "Self-assembly and Dynamics in Multiarm Star Polymers",  
*Proceedings of the 4th Panhellenic Polymer Conference*, Patras, November 1997.
13. M. Fyrillas, G. Georgiou and D. Vlassopoulos,  
 "Investigation of a Stability Mechanism during the Extrusion of Polymer Melts",  
*Proceedings of the 4th Panhellenic Polymer Conference*, Patras, November 1997.
14. D. Chopra, D. Vlassopoulos, and S. G. Hatzikiriakos,  
 "Shear-Induced Mixing and Demixing in Poly(styrene-co-maleic anhydride) / Poly(methyl methacrylate) Blends",  
*Proceedings of the 5th European Rheology Conference*, Portoroz, Slovenia, 1998.
15. G. Petekidis, D. Vlassopoulos, G. Fytas, R. Rulken, and G. Wegner,  
 "Dynamics and Rheology of Hairy-Rod Polymers",  
*Proceedings of the 5th European Rheology Conference*, Portoroz, Slovenia, 1998.
16. D. Vlassopoulos, G. Fytas, J. Roovers, G. Fleischer, and T. Pakula,  
 "Ordering and Dynamics of Model Soft Spheres: Multiarm Star Polymers",  
*Proceedings of the 5th European Rheology Conference*, Portoroz, Slovenia, 1998.
17. D. Chopra, D. Vlassopoulos, and S. G. Hatzikiriakos,  
 "The Detection of Morphological Changes in Poly(styrene-co-maleic anhydride) / Poly(methyl methacrylate) Blends using Rheological Techniques",

- SPE Technical Paper, ANTEC Proceedings*, New York, N.Y., 1999.
18. M. Kapnistos and D. Vlassopoulos,  
“Phase Transitions and Rheological Behavior in Model Polymeric and Colloidal Systems”,  
*Proceedings of the 2<sup>nd</sup> Panhellenic Chemical Engineering Conference*, Thessaloniki, Greece, 1999.
  19. D. Vlassopoulos, M. Kapnistos, G. Fytas, J. Roovers,  
“Structure and Rheology of Model Branched Polymers”,  
*PPS-15 Proceedings*, Hertogenbosch, The Netherlands, 1999.
  20. D. Vlassopoulos, G. Fytas, M. Pitsikalis, N. Hadjichristidis and T. Pakula,  
“Controlling the Self-Assembly and Dynamic Response of Star Polymers by Selective Telechelic Functionalization”  
*ACS Division of Polymer Chemistry*, Preprint, New Orleans National Meeting, 1999.
  21. D. Vlassopoulos, M. Kapnistos, G. Fytas and J. Roovers,  
“Dynamics of Interacting Spherical Polymer Brushes”,  
*ACS Division of Polymeric Materials: Science & Engineering National Meeting*, Preprint, New Orleans National Meeting, 1999.
  22. G. Fytas, R. Sigel, S. Pispas, D. Vlassopoulos and N. Hadjichristidis,  
“Identification of Relaxation Processes in the Dynamic Structure Factor of Diblock Copolymers: Far from the Ordering Transition”,  
*ACS Division of Polymeric Materials: Science & Engineering National Meeting*, Preprint, New Orleans National Meeting, 1999.
  23. D. Vlassopoulos, M. Kapnistos, R. Sigel, J. Roovers, S. Pispas and N. Hadjichristidis,  
“Complex Interplay of Structure and Rheology in Model Ultrasoft Polymeric Spheres”,  
*Proceedings of the Southern Europe Conference on Rheology*, vol. 1, Calabria, September 1999.
  24. D. Vlassopoulos, G. Fytas, and P. J. Lutz,  
"Structure and Dynamics of Polymacromonomers",  
*Proceedings of the XIIIth Congress on Rheology*, Cambridge, U.K., 2000.
  25. D. Vlassopoulos, G. Fytas, J. Roovers and N. Hadjichristidis,  
“From Hairy Balls to Hairy Rods: Using Macromolecular Chemistry to Bridge the Gap Between Polymers and Colloids”,  
*Les Cahiers de Rhéologie*, XVII (1), 121-129 (2000), *Proceedings of the 35<sup>ème</sup> Colloque Annuel du Groupe Français de Rhéologie*, Grenoble, France, 2000.
  32. D. Chopra, M. Kontopoulou, D. Vlassopoulos, and S. G. Hatzikiriakos,  
“Effect of Maleic Anhydride Content on the Rheology and Phase Behavior of Poly(styrene-co-maleic anhydride) / Poly(methyl methacrylate) Blends”,  
*SPE Technical Paper, ANTEC Proceedings*, Dallas, TX, 2001.
  33. D. Vlassopoulos, E. Stiakakis, and J. Roovers,  
“Gelation Phenomena and Thixotropy in Soft Sphere Systems”,  
*Proceedings of the Balkan Seminar on Rheology and IXth National Rheology Workshop*, Sofia, Bulgaria, 2001.
  34. D. Chopra, M. Kontopoulou, D. Vlassopoulos, and S. G. Hatzikiriakos,  
“Rheology and Phase Behavior of Partially Miscible Polymer Blends”,  
*PPS-17 Proceedings*, Montreal, Canada, 2001.
  35. D. van Dusschoten, M. Wilhelm, D. Vlassopoulos, and H. W. Spiess,  
“2D FT-Rheology and Polymer Dynamics under Large Deformations”,  
*PPS-17 Proceedings*, Montreal, Canada, 2001.
  36. D. Vlassopoulos,  
“Some Open Problems in the Dynamics of Polymeric Mixtures”,  
*PRCR3, Proceedings of the 3<sup>rd</sup> Pacific Rim Conference on Rheology*, Vancouver, Canada, 2001.
  31. D. Vlassopoulos, and T. Pakula,  
“Relaxation Mechanisms in Topologically Complex Macromolecules”,  
*Proceedings of the 6th European Rheology Conference*, Erlangen, Germany, 2002.
  32. E. Stiakakis, D. Vlassopoulos, C. N. Likos, G. Meier, and J. Roovers,  
“Gelation-like Transition in Ultrasoft Spheres”,  
*Proceedings of the 6th European Rheology Conference*, Erlangen, Germany, 2002.
  33. A. N. Rissanou, D. Vlassopoulos, and I. A. Bitsanis,  
“Microstructural Changes in Dense Suspensions of Multiarm Star Polymers Induced by Temperature: Molecular Dynamics Simulations and Comparison with Experiments”,  
*Proceedings of the 4<sup>th</sup> Panhellenic Chemical Engineering Conference*, Patras, Greece, 2003.
  34. V. Carrier, G. Petekidis, F. Ozon, D. Vlassopoulos, P.N. Pusey, and M. Ballauff  
“Yielding and rearrangements in colloidal glasses with varying interparticle interactions”,

- Proceedings of the XIVth Congress on Rheology*, Seoul, Korea, 2004.
35. W. M. Holmes, P. T. Callaghan, D. Vlassopoulos, and J. Roovers,  
"Shear banding phenomena in ultrasoft colloidal gels",  
*Proceedings of the XIVth Congress on Rheology*, Seoul, Korea, 2004.
  36. C. Christopoulou, U. Jonas, D. Vlassopoulos, C. Clark, and G. Fytas,  
"Viscoelasticity of Semifluorinated Alkanes at the Air-Water Interface",  
*Proceedings of the XVth International Congress on Rheology*, Monterey, CA, 2008.
  37. E. vanRuymbeke, E. B. Muliawan, M. Kapnistos, D. Vlassopoulos, A. Hirao, and N. Hadjichristidis,  
"Architecturally Complex Polymers: Viscoelasticity and Extensional Rheology",  
*Proceedings of the XVth International Congress on Rheology*, Monterey, CA, 2008.
  38. L. Balacca, C. Coppola, S. Righi, E. vanRuymbeke, and D. Vlassopoulos,  
"Decoding the Viscoelastic Response of Polydisperse Star/Linear Polymer Blends",  
*Proceedings of the XVth International Congress on Rheology*, Monterey, CA, 2008.
  64. D. Vlassopoulos, E. van Ruymbeke, K. M. Kirkwood, L. G. Leal, P. Driva, A. Nikopoulou,  
N. Hadjichristidis, T. Chang, and J. Pathak,  
"Regular and exact polymeric combs: rheology and architectural dispersity",  
*PRCR-5, Proceedings of the 5<sup>th</sup> Pacific Rim Conference on Rheology*, Sapporo, Japan, August 1-6, 2010.
  40. E. van Ruymbeke, M. Pitsikalis, N. Hadjichristidis, and D. Vlassopoulos,  
"Telechelic Linear and Star Polyisoprene Melts: Linear Rheology and Modeling",  
*PRCR-5, Proceedings of the 5<sup>th</sup> Pacific Rim Conference on Rheology*, Sapporo, Japan, August 1-6, 2010.
  41. D. Vlassopoulos,  
"Metastable states and rheological transitions in soft colloids",  
*Progress and perspectives in rheology, Proceedings of SRJ's 40<sup>th</sup> Anniversary Symposium*, Society of Rheology Japan (SRJ), Kyoto, Japan, May 16-17, 2013.
  42. S. Costanzo, Q. Huang, G. Ianniruberto, G. Marrucci, O. Hassager, and D. Vlassopoulos,  
Response of polystyrene melts and solutions with the same number of entanglements in simple shear and uniaxial extension  
*Proceedings of the XVIIIth International Congress on Rheology*, Kyoto, Japan, August 8-13, 2016.

### Seminars

1. "Visualization of Gas-Liquid Flows in Bubble Caps",  
Hydroprocessing Seminar, Mobil Research & Development Corp., Paulsboro, New Jersey, August 1990.
2. "Evaluation of Bubble Cap Distributor Trays",  
Engineering Group Seminar, Mobil Technical Center, Princeton, New Jersey, September 1990.
3. "Evaluation of Distributor Trays by Means of Cold Flow Studies",  
Hydroprocessing Seminar, Mobil Research & Development, Paulsboro Research Laboratory, Paulsboro, New Jersey, February 1991.
4. "Rheological Characterization of Dilute Polymer Solutions",  
F.O.R.T.H., Institute of Electronic Structure & Laser, Heraklion, Crete, February 1992.
5. "Rheological Characterization of Dilute Polymer Solutions",  
Joint Colloquium, Department of Chemical Engineering-University of Patras and Institute of Chemical Engineering and High Temperature Processes, Patras, Greece, May 1993.
6. "Aggregation Behavior in Semi-dilute Solutions of Rod-Like Polymers Solutions",  
Institute of Physical Chemistry, University of Mainz, Germany, November 1995.
7. "Chain Conformation and Aggregation of Rod-Like Polymers in Solution",  
Polymer Science Colloquium, Polymer Institut, University of Karlsruhe, Germany, November 1995.
8. "Aggregation Dynamics in Semi-dilute Solutions of Hairy-Rod Polymers",  
Institute of Materials Science and Department of Chemical Engineering Joint Colloquium, University of Connecticut, Storrs, CT, December 1995.
9. "Critical Behavior in Polymer Blends",  
Department of Materials Science and Engineering, The Pennsylvania State University, College Park, PA, December 1995.
10. "The Unusual Behavior of Polymer Blends Near their Phase Separation",  
Chemical Engineering Colloquium, Department of Chemical Engineering, University of British Columbia, Vancouver, Canada, December 1995.
11. "Dynamics and Rheology of Critical Polymer Blends",  
Department of Chemical Engineering, City University of New York (CUNY) at Buffalo, Buffalo, N.Y., August 1996.
12. "Dynamics and Rheology of Binary Polymer Mixtures",

- Polymer Physics Colloquium, Department of Chemical Engineering, University of Delaware, Newark, DE, August 1996.
13. "Dynamic Aspects of Critical Polymer Blends",  
Chemical Engineering Colloquium, Department of Chemical Engineering, University of Nottingham, Nottingham, U.K., November 1996.
  14. "Dynamics of Polymer Mixtures Near the Phase Separation",  
Special Colloquium, Department of Materials, Queen Mary & Westfield College, University of London, London, U.K, November 1996.
  15. "Structure and Dynamics of Multiarm Star Polymers",  
Department of Chemical Engineering and Engineering Research Center (ERC) of Particle Science and Technology, University of Florida, Gainesville, FL, February 1997.
  16. "Structure-Properties Relationships in Complex Fluids with Emphasis on Rod-Like Polymers",  
Monsanto Technical Community (TCM) Seminar Series, The Monsanto Chemical Company, Pensacola, FL, February 1997.
  17. "Dynamics of Heterogeneous Polymeric Systems",  
Physics Colloquium, Physics Department, University of Crete, Heraklion, Crete, Greece, April 1997.
  18. "Dynamics of Multiarm Star Polymers in the Ordering Region",  
National Institute of Standards and Technology (N.I.S.T), Gaithersburg, MD, June 1997.
  19. "Structure and Dynamics of Multiarm Star Polymers: from Polymeric to Colloidal Behavior",  
Chemical Engineering Colloquium, Department of Chemical Engineering, University of Cincinnati, Cincinnati, OH, October 1997.
  20. "Research Activities of the Polymer Group, FORTH-IESL",  
Centre for Self Organizing Molecular Systems (SOMS), School of Chemistry, The University of Leeds, Leeds, U.K, November 1997.
  21. "Structure and Dynamics of Complex Polymeric Systems: Branched Polymers, Blends, and Rod-Like Polymers",  
Avery-Dennison Research Center Seminar Series, Pasadena, CA, March 1998.
  22. "Controlling the Dynamics of Soft Spheres: from Polymeric to Colloidal Behavior",  
Chemical Engineering Colloquium, Department of Chemical Engineering, University of British Columbia, Vancouver, Canada, March 1998.
  23. "Research Activities of the Polymer Group, FORTH-IESL. Controlling the Dynamics of Soft Spheres: from Polymeric to Colloidal Behavior",  
Symyx Technologies, Santa Clara, CA, March 1998.
  24. "Controlling the Dynamics of Soft Spheres: from Polymeric to Colloidal Behavior",  
Department of Chemical Engineering, Rheo-optics Group, Stanford University, Stanford, CA, March 1998.
  25. "Structure and Rheology of Complex Soft Materials: Hairy-Rod and Star Polymers",  
Polymer Physics Colloquium, Department of Chemical Engineering, University of Delaware, Newark, DE, October 1998.
  26. "Structure and Viscoelasticity of Soft Steric Spheres",  
Merck & Co. Research Laboratories, West Point, PA, October 1998.
  27. "Dynamic Response of Multiarm Star Polymers: from Polymers to Colloids",  
Department of Chemical Engineering, University of California, Santa Barbara, CA, October 1998.
  28. "Structure and Rheology of Model Soft Spheres",  
FMC, Pharmaceutical Division, Princeton, N.J., October 1998.
  29. "Dynamics of Soft Spheres",  
The Benjamin Levich Institute for Physicochemical Hydrodynamics, The City College of the City University of New York, New York, N.Y., October 1998.
  30. "Structure and Rheology of Complex Soft Materials: Polymer Blends and Star Polymers",  
Chemical Engineering Colloquium, Department of Chemical Engineering, Katholieke Universiteit Leuven, Leuven (Heverlee), Belgium, November 1998.
  31. "Using Hyperbranched Polymers to Explore the Dynamics in the Mesoscopic Regime",  
Department of Polymer Science and Engineering, University of Massachusetts, Amherst, MA, August 1999.
  32. "Structure and Dynamics of Mesoscopic Polymer Systems",  
Department of Chemical Engineering, Princeton University, Princeton, N. J., August 1999.
  33. "Structure and Dynamics in the Mesoscopic Regime: Results from Hyperbranched Polymers and Micelles",  
Department of Chemical Engineering, University of Florida, Gainesville, FL, August 1999.
  34. "Exploring the Dynamics of Mesoscopic Soft Systems: Polymeric Stars and Micelles",  
Department of Chemistry, University of Sheffield, Sheffield, U.K., December 1999.
  35. "Hyperbranched Polymers as Vehicles for Exploring the Dynamics in the Mesoscopic Regime",

- Department of Physics and Astronomy and IRC in Polymer Science and Technology, University of Leeds, Leeds, U.K., December 1999.
36. “Star Polymers and Giant Micelles: Models for Bridging the Gap Between Polymers and Colloids”, Heinrich Heine Universität Düsseldorf, Institut für Theoretische Physik II, Düsseldorf, Germany, November 2000.
  37. “Rheology of Branched Polymers”, Aristotle University of Thessaloniki, Department of Chemical Engineering, Thessaloniki, Greece, April 2001.
  38. “Glass-like Dynamics in Star Polymers”, National Hellenic Research Foundation, Institute of Theoretical and Physical Chemistry, Spectroscopy Group, May 2001.
  39. “Using Polymeric Stars and Micelles to bridge the Gap between Polymers and Colloids”, Department of Chemical Engineering, University of Delaware, Newark, DE, July 2001.
  40. “Glass-like Gelation in Star Polymers and Star/Linear Polymer Mixtures”, E.S.P.C.I., Matière Molle & Chimie, Paris, France, September 2001.
  41. “Star Dynamics”, Institute for Theoretical Physics, Program in Dynamics of Complex and Macromolecular Fluids – Entangled Polymer Fluids, University of California, Santa Barbara, CA, April 2002.
  42. “Molecular Manipulation of Transitions in Soft Matter”, Physics-Chemical Engineering Joint Colloquium, University of Delaware, Newark, DE, September 2002.
  43. “Jamming Transitions in Ultrasoft Polymeric Colloids”, Department of Materials Science and Engineering, Pennsylvania State University, College Park, PA, September 2002.
  44. “Control of the Rheological Behavior of Colloidal Star Polymers”, Institute for Chemical Research, Kyoto University, Kyoto, Japan, March 2003.
  45. “Dynamics of Architecturally Complex Macromolecules”, ExxonMobil Chemical Company, Baytown Polymer Center, Baytown, TX, October 2003.
  46. “Vitrification and Depletion Phenomena in Soft Colloidal Systems”, joint seminar The Benjamin Levich Institute for Physicochemical Hydrodynamics and Department of Chemical Engineering, The City College of the City University of New York, and IGERT Soft Materials Series – CCNY/Columbia University, New York, N.Y., October 2003.
  47. “Molecular Control of Interactions in Ultrasoft Colloids: Vitrification, Depletion, Crystallization?”, Heinrich Heine Universität Düsseldorf, Institut für Theoretische Physik II, Düsseldorf, Germany, November 2003.
  48. “Vitrification Phenomena in Colloidal Suspensions and Mixtures”, Centre for Research and Technology – Hellas (CERTH), Chemical Process Engineering Research Institute (CPERI), Thessaloniki, Greece, January 2004.
  49. “Dynamics, Depletion and Crystallization in Soft Colloids and Mixtures”, Department of Chemical Engineering, University of Delaware, Newark, DE, March 2004.
  50. “Molecular Manipulation of Transitions in Soft Matter”, Department of Physics and Astronomy, Soft Matter, University of Pennsylvania, Philadelphia, PA, March 2004.
  51. “Rheology Control of Associative Triblock Copolymer Aqueous Solutions and Gels”, Hercules Research Center, Wilmington, DE, March 2004.
  52. “Tailoring the Flow Properties of Soft Colloidal Systems”, University of Naples Federico II, Department of Chemical Engineering, Naples, Italy, November 2004.
  53. “Rheology of Architecturally Complex Macromolecules”, University of Salerno, Department of Chemical Engineering, Salerno, Italy, November 2004.
  54. “Do Polymers Obey Seniority Rules?”, University of Crete, Department of Materials Science and Technology, Heraklion, Crete, Greece, December 2004.
  55. “Towards Control of the Flow Properties of Soft Colloidal Systems”, National Institute of Standards and Technology (N.I.S.T), Gaithersburg, MD, February 2005.
  56. “Linear Rheology of Model Comb Polymers”, ExxonMobil Chemical Company, Baytown Technology and Engineering Center, Baytown, TX, February 2005.
  57. “Following the Motion of Branched Macromolecules”, University of Crete, Department of Physics, Heraklion, Crete, Greece, March 2005.
  58. “Linear Rheology of Model Branched Polymers”, ExxonMobil Research and Engineering Company, Annandale, NJ, August 2005.

59. "Vitrification and Melting in Colloidal Systems",  
Center for Molecular and Engineering Thermodynamics, Department of Chemical Engineering, University of Delaware, Newark, DE, September 2005.
60. "Rheology of Model Branched Polymers",  
Pennsylvania State University, Department of Materials Science and Engineering, College Park, PA, September 2005.
61. "Rheology of Architecturally Complex Polymers: From Combs to Macromolecular Self-Assemblies",  
Department of Chemical Engineering Colloquium, Stanford University, Stanford, CA, November 2005.
62. "Combs and beyond: Following the motion of architecturally complex polymers",  
Department of Chemical Engineering and Materials Science, University of Minnesota, Polymer Group, Minneapolis, MN, November 2005.
63. "Rheology of branched polymers and macromolecular assemblies",  
E.S.P.C.I., Matière Molle & Chimie, Paris, France, February 2006.
64. "Vitrification, melting and flow in dense colloidal dispersions",  
NCSR DEMOKRITOS, Institute of Physical Chemistry, Athens, Greece, June 2006.
65. "Rheology of Architecturally Complex Polymers: From Combs to Macromolecular Self-Assemblies",  
Division of Chemistry and Chemical Engineering, California Institute of Technology, Pasadena, CA, June 2006.
66. "Architecturally complex macromolecules for addressing technologically relevant (and irrelevant?) problems",  
Polimeri Europa, Research Center Ravenna, Italy, March 7, 2008.
67. "Rheological Fingerprinting of Model Soft Colloids",  
Université du Maine, UMR CNRS 6120 "Polymères, Colloïdes, Interfaces", Le Mans, France, December 3, 2009.
68. "Architecturally Complex Macromolecules for Addressing Scientific and Technological Challenges",  
Michelin Technology Center Ladoux, Clermont-Ferrand, France, December 8, 2009.
69. "Rheological Fingerprinting of Aging Soft Colloidal Glasses",  
Durham University, Department of Chemistry, Durham, UK, December 10, 2009.
70. "Stress Relaxation in Entangled Branched Polymers",  
Max-Planck-Institut für Polymerforschung, Mainz, Germany, February 4, 2010.
71. "Rheology of Architecturally Complex Polymers: from Combs to Rings",  
ETH, Department of Materials, Zurich, Switzerland, April 4, 2012.
72. "Rheological probes of entangled polymers and nanocomposites: Relaxation, stretching, yielding, flow alignment",  
Versalis, Ravenna Research Center, Italy, September 28, 2012.
73. "Towards rationalization of the rheology of entangled branched polymers",  
King Abdullah University of Science and Technology (KAUST), Thuwal, Saudi Arabia, January 20, 2013.
74. "Malleable composite materials from soft colloids",  
University of Cyprus, Department of Mechanical and Manufacturing Engineering, Nicosia, Cyprus, February 27, 2013.
75. "Metastable states in soft colloidal mixtures",  
Carnegie-Mellon University, Department of Materials Science & Engineering, Pittsburgh, PA, March 22, 2013.
76. "Metastable states and rheological transitions in soft colloids",  
University of Houston, Department of Chemical and Biomolecular Engineering, Houston, TX, April, 11, 2013.
77. "Nonlinear rheology of entangled branched polymers",  
ExxonMobil Chemical Company, Baytown Research Center, Baytown, TX, April 12, 2013.
78. "Entanglement dynamics in ring polymers: recent progress and open challenges",  
Institute for Chemical Research, Kyoto University, Kyoto, Japan, May 14, 2013.
79. "Tunable metastable states in soft colloidal mixtures",  
Max-Planck-Institut für Polymerforschung, Mainz, Germany, July 4, 2013.
80. "Metastable states in soft colloidal mixtures and nanocomposites",  
Université du Maine, UMR CNRS 6120 "Polymères, Colloïdes, Interfaces", Le Mans, France, September 24, 2013.
81. "Metastable states in soft colloidal mixtures and nanocomposites",  
Cornell University, School of Chemical and Biomolecular Engineering, Ithaca, NY, USA, October 11, 2013.
82. "Experimental study of the viscoelasticity of critically purified polymers",  
ETH, Department of Materials - Polymer Physics Group, Zurich, Switzerland, November 20, 2013.
83. "Tailoring metastable states in soft colloidal mixtures",



- ETH, Department of Materials, Zurich, Switzerland, November 28, 2013.
84. “Exploring metastable states in soft colloidal mixtures”,  
Université de Fribourg, Department of Physics, Fribourg, Switzerland, January 17, 2014.
  85. “Glasses and gels from soft colloidal mixtures: viscoelasticity, yielding and thermoresversible melting”,  
Université Paris-Est, Institut Navier / Ecole Nationale des Ponts et Chaussées, Paris, France, February 4, 2014.
  86. “From combs strain hardening to stars depletion gels: macromolecular architecture and soft matter physics”,  
Saint-Gobain Recherche, Aubervilliers, France, February 5, 2014.
  87. “Nanocomposites under flow: dispersing nanoparticle assemblies in polymer melts”,  
Forschungszentrum Jülich, Institute for Complex Systems, Soft Matter, Jülich, Germany, April 2, 2014.
  88. “Self-assembly, metastability and directed self-assembly in soft colloidal systems: A rheological perspective”,  
Nestlé Research Center, Lausanne, Switzerland, April 25, 2014.
  89. “Metastability transitions in soft colloids and nanocomposites”,  
Center for Molecular and Engineering Thermodynamics, Department of Chemical Engineering, University of Delaware, Newark, DE, May 19, 2014.
  90. “Nanocomposites as model colloidal gels: effects of flow fields”,  
Ecole Supérieure de Physique et Chimie Industrielles (ESPCI ParisTech), Paris, France, June 10, 2014.
  91. “Directed assembly and solid-liquid transitions in soft colloid – linear polymer mixtures”,  
Université Paris VI, Irvy sur Seine, Paris, France, June 11, 2014.
  92. “Rheology of entangled branched polymers: progress, surprises and perspectives”,  
Ecole Supérieure de Physique et Chimie Industrielles (ESPCI ParisTech), Paris, France, June 24, 2014.
  93. “Rheology of ring polymers: a departure from the classic picture”,  
Case Western Reserve University, Department of Macromolecular Science and Engineering, Cleveland, OH, October 10, 2014.
  94. “On the motion of cyclic macromolecules: a departure from the classic picture”,  
University of Crete, Department of Physics, Heraklion, Crete, Greece, December 4, 2014.
  95. “Hairy colloidal particles: tuning glass transition, gelation and crystallization”,  
ETH, Department of Mechanical and Process Engineering, Particle Technology Laboratory, Zurich, Switzerland, January 9, 2015.
  96. “Entanglement dynamics of polymers with and without free ends”,  
The University of Texas at Austin, McKetta Department of Chemical Engineering, Austin, TX, USA, March 4, 2015.
  97. “Comb and star macromolecules: some rheological consequences of macromolecular topology”,  
The Chinese Academy of Sciences, Institute of Chemistry, Laboratory of Engineering Plastics, Beijing, China, August 24, 2015.
  98. “Comb and star macromolecules: some rheological consequences of macromolecular topology”,  
Institut Charles Sadron (ICS), Strasbourg, France, September 1, 2015.
  99. “Molecular manipulation of the flow properties of soft matter”,  
University of Crete, Department of Materials Science & Technology, Heraklion, Crete, Greece, December 14, 2015.
  100. “Molecular manipulation of the flow properties of soft matter”,  
University of Naples Federico II, Department of Chemical Engineering, Naples, Italy, January 26, 2016.
  101. “Molecular manipulation of the flow properties of soft matter”,  
Ben Gurion University of the Negev, Chemical Engineering Department, Beer Sheva, Israel, February 11, 2016.
  102. “Molecular manipulation of the flow properties of soft matter”,  
Technical University of Denmark (DTU), Department of Chemical and Biochemical Engineering, Lyngby, Denmark, March 14, 2016.
  103. “Network dynamics in nanofilled polymers”,  
Technical University of Denmark (DTU), Department of Chemical and Biochemical Engineering, Lyngby, Denmark, May, 2016.
  104. “Network dynamics in nanofilled polymers”,  
CNRS Solvay, Laboratory of polymers and advanced materials, Lyon, France, July 25, 2016.
  105. “Flow transitions in tunable soft colloids”,  
University of Montpellier, Laboratoire Charles Coulomb, Montpellier, France, September 9, 2016.
  106. “Molecular manipulation of the flow properties of soft matter”,  
Eindhoven University of Technology, Institute for Complex Molecular Systems (ICMS), Eindhoven, The Netherlands, October 27, 2016.
  107. “Dendronized polymers, supersoft elastomers and ductile-to-brittle transition”,

- Pennsylvania State University, Department of Materials Science & Engineering, State College, PA, USA, March 17, 2017.
108. “Dendronized polymers, supersoft elastomers and ductile-to-brittle transition”, University of Athens, Department of Chemistry, Industrial Chemistry Lab., April 20, 2017.
  109. “Soft colloid – polymer mixtures: gelation and confinement effects”, Columbia University, Department of Chemical Engineering, New York, NY, USA, May 5, 2017.
  110. “Interplay of macromolecular motion and architecture”, Institut National des Sciences Appliquées (INSA),MATEIS, Lyon, France, September 8, 2017.
  111. “Thick polymers, supersoft elastomers and ductile-to-brittle transition”, Institut National des Sciences Appliquées (INSA),MATEIS, Lyon, France, September 12, 2017.
  112. “Supramolecular living polymers: interactions, viscoelasticity and spreading”, ETH, Department of Materials, Zurich, Switzerland, December 21, 2017.
  113. “Dynamics of dense soft colloids with varying shape and densification modulus” Technische Universiteit Eindhoven, Department of Mechanical Engineering, Eindhoven, NL, February 26, 2018.
  114. “Dynamics of dense soft colloids: shape and osmotic effects”, KITP, University of California, Santa Barbara, CA, March 16, 2018.
  115. “Tunable supramolecular structures: interactions and viscoelasticity”, Universite catholique de Louvain, Bio and Soft Matter, Louvain la Neuve, Belgium, September 12, 2018.
  116. “Can soft hairy nanoparticles jam? A comparison between polyelectrolyte microgels and star polymers”, Indian Institute of Technology, Kanpur, India, December 21, 2018.
  117. “Some outstanding challenges in polymer rheology: nonlinear response and macromolecular architecture”, Maastricht University, Aachen-Maastricht Institute for Biobased Materials, The Netherlands, January 30, 2019.
  118. “Supramolecular living polymers: interactions, viscoelasticity and mechanics of spreading”, Massachusetts Institute of Technology, Department of Mechanical Engineering, Cambridge, MA, March 28, 2019
  119. “Macroscopic consequences of competing interactions in supramolecular gels”, virtual, University of South Carolina, Department of Chemistry and Biochemistry, Columbia, SC, October 23, 2020.
  120. “Unusual viscoelastic properties of supramolecular living polymers based on hydrogen bonding”, virtual, University of Ioannina, Department of Physics, Ioannina, Greece, October 30, 2020.
  121. “Rheological Signatures of Competing Interactions in Supramolecular Gels”, virtual, Levich Institute, City College of New York, USA, November 10, 2020.
  122. “Interacting polymeric nanoparticles: a simple route to tailor (rheological) properties”, 10<sup>th</sup> Anniversary of ACS Macro Letters, webinar, March 3, 2021.
  123. “Rheology modification of physical networks: topology and competing interactions”, Australian Society of Rheology, webinar, April 20, 2021.

### **Teaching Activities:**

#### **University of Crete:**

- *"Dispersions of Colloidal Systems"*, Dept. of Chemistry (with G. Fytas), spring 1994.
- *"Mechanical Properties of Soft Matter"*, Dept. of Physics, 1999-2004.
- *"Materials I: Present & Future"*, Materials Science & Technology, fall 2002 (with G. Petekidis), fall 2003.
- *"Thermodynamics (with elements of statistical thermodynamics)"*; Dept. of Materials Science & Technology, 2003-2008, 2010-2012, 2014- (fall).
- *"Transport Phenomena in Materials Science"*; Dept. of Materials Science & Technology, 2003-5, 2010-2016.
- *"Introduction to Polymer Physics"*, Dept. of Materials Science & Technology, 2003-2015 (with G. Fytas), 2016-. (spring); Dept. of Chemistry, fall 1992; Dept. of Physics (with S. H. Anastasiadis), 1993, 1996-2000.
- *"Introduction to Soft Matter"*, Introductory graduate-level course, Dept. of Materials Science & Technology, spring 2011, 2012, 2015- (with M. Vamvakaki).
- *"Special topics in Soft Matter"*, graduate-level course, Dept. of Materials Science & Technology, spring 2018, 2019.

#### **University of Delaware:**

- *"Fluid Mechanics"*, Dept. of Chemical Engineering, fall 2005 (with A. N. Beris).

### **Invited Tutorial Short courses:**

- *Summer School of Advanced Physics*, organized yearly by FORTH-IESL and the Department of Physics, University of Crete, in Heraklion. Offered yearly introductory lectures on *introduction to soft matter*, *linear viscoelasticity* and *polymer rheology*: 1993-2004.

- Graduate Program *Polymers and their Applications*, organized by the University of Athens, Department of Chemistry, in Athens. Offered lectures on ‘*polymer rheology and dynamics*’, ‘*introduction to linear viscoelasticity*’ and ‘*applications of drag-reduction*’, springs 1999-2003; ‘*molecular polymer rheology*’, springs 2004-2006, 2008,2010.
- Graduate Program *Processes and Processing of Advanced Materials*, organized by the University of Thessaloniki, Department of Chemical Engineering, in Thessaloniki. Offered lectures on ‘*polymer dynamics*’; Fall 1999.
- Summer School *Polymer Characterization* , organized by the International Max-Planck-Research School for Polymer Materials Science, Heraklion, October 2000.
- “*Rheology of Complex Macromolecular Systems*”, Department of Chemical Engineering, University of Delaware; September-October 2002.
- Winter School *Rheology and Dynamics of Polymers*, organized by the International Max-Planck-Research School for Polymer Materials Science, Dahn, Germany, February 2003.
- Graduate Program *Polymer Science and Technology*, organized by the University of Patras, Departments of Chemical Engineering, Physics and Chemistry, in Patras. Offered lectures on ‘*molecular rheology of polymers*’; Spring 2004.
- *Introduction to Molecular Rheology*, Graduate Lectures, Department of Chemical Engineering, University of Bologna, Italy, March 5-7, 2008.
- *Dynamics of Polymers & Polymer Solutions*, Polimeri Europa Res. Center, Mantova, Italy, June 28-29, 2010.
- *Probing slow self-assembly phenomena by rheology*, Nanodirect Workshop, University of Vigo, Spain, July 13-16, 2012.
- *General Introduction to Molecular Rheology*, ETH Zürich, Polymer Chemistry Group, December 6, 9, 2013.
- *Introduction to Molecular Rheology of Soft Matter*, Université Paris-Est, Champs sur Marne, France February 6, 2014.
- *Introduction to Molecular Rheology*, Training short course for young researchers in the context of EU network projects (Dynacop, Somatai, Supolen, DoDyNet).
- “*From polymers to colloids: a rheological roadmap for tailoring the flow properties of soft matter at molecular level*”, Greek-German Workshop “*Nano-structured soft materials: from polymer self-assembly to stimuli responsive materials*”, NTUA, Athens, September 28-29, 2016.
- “*Basic introduction to polymer physics and molecular rheology*”, KAUST, Thuwal, Saudi Arabia, November 25-28, 2018.
- “*Basic introduction to molecular viscoelasticity*”, Indian Institute of Technology, Kanpur, India, December 21, 2018.
- “*Structure and rheology of soft colloids: fundamentals and applications*”, D. Vlassopoulos and M. Cloitre, short course at the *XVIIIth International Congress on Rheology*, virtual (Rio de Janeiro, Brazil), December 12, 2020.

### **Professional Activities**

Member of The Society of Rheology, USA (1985-); Technical Chamber of Greece (Registered Professional Engineer since 7-2-1984); American Institute of Chemical Engineers (1979-1994); Hellenic Society of Chemical Engineers (1984-); Hellenic Polymer Society (1993-); founding member of the Hellenic Society of Rheology (1996-); European Society of Rheology (ESR), American Physical Society (2017-).

### **Reviewing and Evaluation Activities**

#### 1. International Scientific Journals

Chemical Engineering Science, Physics of Fluids, Colloid and Polymer Science, Macromolecular Symposia,

Macromolecules, Polymer Engineering & Science, Rheologica Acta, Physical Review Letters, Journal of Rheology, Journal of the American Chemical Society, Langmuir, Europhysics Letters, Industrial & Engineering Chemistry Research, Canadian Journal of Chemical Engineering, European Polymer Journal, European Journal of Mechanics–B / Fluids, Chemistry of Materials, Polymer, Journal of Colloid and Interface Science, Nanotechnology, Physical Review E, European Physical Journal E – Soft Matter, Physical Chemistry Chemical Physics, Journal of Polymer Science. Part B: Polymer Physics, Soft Matter, Molecular Physics, Macromolecular Rapid Communications, Applied Rheology, Journal of Non-Newtonian Fluid Mechanics, Journal of Fluid Mechanics, Microelectronics Engineering, Nature, Nature Materials, Journal of Chemical Physics, Journal of Physical Chemistry B, Nano Letters, Journal of Physics Condensed Matter, ACS Nano, ACS Macro Letters, Korea-Australia Rheology Journal, Journal of Visualized Experiments, Mechanics of Time-Dependent Materials, Biomacromolecules, Nature Physics, RSC Advances, AIChE J., Faraday Discussions, ACS Biomaterials Sci. Eng., Science, Polymers, Physical Review X, Nature Scientific Reports, Physical Review

Fluids, PNAS, Nature Communications, Science Advances, Advanced Materials, Physical Review Materials, ACS Omega, ACS Appl. Mater. Interfaces, GIANT, Journal of Physics Communications, ACS Polymers Au.

## 2. Proposals

U.S. National Science Foundation (NSF); Natural Sciences and Engineering Research Council of Canada (NSERC); European Union – Directorate General for Research ; European Research Council; Greek General Secretariat for Research and Technology (GSRT); Greek Ministry of Education ; ELIDEK (Hellenic Foundation for Research and Innovation); National Scholarships Foundation (IKY), Greece; Research Committee: Universities of Patras, Ioannina, Technical Univ. of Crete, NTUA ; FWO (Fonds voor Wetenschappelijk Onderzoek ) – Vlaanderen, Belgium ; EPSRC (Engineering and Physical Sciences Research Council) – UK ; Review Panel, Neutron Facility, Forschungszentrum Jülich, Germany (2003-2008) ; Mitsubishi Research Institute, Japan; FNRS (Fonds de la Recherche Scientifique), Belgium ; ANR (Agence Nationale de la Recherche), France; Italian Ministry of Education, University and Research (MIUR); Technical University of Crete, Chania ; University of Patras ; University of Ioannina ; DPI (Dutch Polymer Institute) – The Netherlands; FOM (Foundation for Fundamental Research on Matter) – The Netherlands ; ACS, The Petroleum Research Fund, USA ; SEV, Hellenic Federation of Enterprises, Greece ; ETH Research Commission ; CECAM - Centre Européen de Calcul Atomique et Moléculaire ; Research Promotion Foundation (RPF), Cyprus ; FWF, Austrian Science Fund ; Irish Research Council ; Swiss National Science Foundation (SNSF) ; Sultan Qaboos University, Oman ; Université Paris – Est ; CFI, Canada Foundation for Innovation ; Onassis Foundation, Greece ; Israel Science Foundation.

## 3. Committees

Member of Ph.D and M.S. theses committees/external referee in Universities of Crete, Athens, NTUA, Patras, Thessaloniki, British Columbia, Naples, Université Catholique Louvain-la-Neuve, Technical University of Denmark, Twente, McGill, Granada, Katholieke Universiteit Leuven, ESPCI – Université Pierre et Marie Curie – Paris 6, Düsseldorf, Université du Maine, Université Paris-Est, University of Groningen, Université catholique de Louvain, University of Vienna, ETH Zurich, T U Eindhoven, Università di Bologna, University of Milan, Maastricht University.

Member of faculty promotion/selection committees in Universities of Crete, Athens, Thessaly, NTUA, Patras, Cyprus, Ioannina, FORTH (IESL, ICE/HT), Delaware, Leeds.

Member of Review Committee AERES (Agence d'évaluation de la recherche et de l'enseignement supérieur), CNRS-UMR 5223, Lyon, France, February 1-3, 2010.

Member of Review Committee AERES (Agence d'évaluation de la recherche et de l'enseignement supérieur), Institut Charles Sadron, Strasbourg, France, December 14-15, 2011.

Member of the External Scientific Advisory Board, CNRS-UMR 5223 (Ingénierie des Matériaux Polymères), University of Lyon 1, Lyon, France, February 7-8, 2012.

## 4. Conference abstracts

XIIth International Congress on Rheology, Quebec City, Canada, August 1996.

2<sup>nd</sup> Annual European Rheology Conference (AERC), Grenoble, France, 2005.

7<sup>th</sup> World Congress of Chemical Engineering, Glasgow, UK, 2005.

1<sup>st</sup> International Soft Matter Conference, Aachen, Germany, October 2007.

XVth International Congress on Rheology, Monterey, CA, August 3-8, 2008.

6<sup>th</sup> Annual European Rheology Conference (AERC), Göteborg, Sweden, April 6-8, 2010.

2<sup>nd</sup> International Soft Matter Conference, Granada, Spain, July 5-8, 2010.

8<sup>th</sup> Liquid Matter Conference, Vienna, Austria, September 6-10, 2011.

3<sup>rd</sup> International Soft Matter Conference, Rome, Italy, September 16-19, 2013.

5<sup>th</sup> International Soft Matter Conference, Edinburgh, UK, June 3-7, 2019.

## Meetings Organization

1. *Sixth International Symposium on Polymer Analysis and Characterization (ISPAC-6)*, Aghia Pelaghia, Crete, July 1993 (member of the Organizing Committee).
2. *Fourth Mediterranean School and Symposium on Science and Technology of Advanced Polymer Based Materials (MEDNET)*, Fodele, Crete, June 1995 (member of the Organizing Committee).
3. *Symposium on Rheology and Computational Fluid Mechanics*, dedicated to the memory of Prof. Tasos Papanastasiou, Nicosia, Cyprus, July 1996 (member of the Organizing and Scientific Committees).
5. *European Polymer Federation Meeting on Polymeric Materials (EPF96)*, Aghia Pelaghia, Crete, October 1996 (member of the Organizing Committee).
6. *Second Meeting of the Hellenic Society of Rheology and International Symposium*, Heraklion, Crete, September 1998 (member of the Scientific Committee; chairman of the Organizing Committee).

7. *Southern Europe Conference on Rheology, Eurorheo 99-3*, Sangineto, Italy, September 1999 (member of the Organizing and Scientific Committees).
8. *35ème Colloque Annuel du Group Francais de Rheologie*, Grenoble, France, October 2000 (member of the Organizing and Scientific Committees).
9. *Balkan Seminar on Rheology and IXth National Rheology Workshop*, Sofia, Bulgaria, April 2001 (member of the International Program Committee).
10. *Third International Meeting of the Hellenic Society of Rheology Dedicated to Professor Andreas Acrivos on the Occasion of his Retirement*, Patras, Greece, June 2001 (member of the Scientific and Organizing Committees).
11. *5th Panhellenic Polymer Meeting*, Heraklion, Crete, Greece, December 2001 (chairman of the Organizing Committee).
12. *1st Annual European Rheology Conference*, Guimaraes, Portugal, September 2003 (session organizer).
13. *PPS-2003, Regional Meeting of the Polymer Processing Society (Europe)*, Athens, Greece, September 2003 (member of the Scientific and Organizing Committees).
14. *HUSC: From Hard to Ultrasoft Colloids. Colloids and Polymeric Assemblies near to and far from Equilibrium*, Koutouloufari, Crete, Greece, June 2004 (conference chair).
15. *Fourth International Meeting of the Hellenic Society of Rheology*, Athens, Greece, June 2004 (member of the Scientific and Organizing Committees).
16. *76th Meeting of the Society of Rheology*, Lubbock, TX, USA, February 2005 (session organizer).
17. *2nd Annual European Rheology Conference*, Greboble, France, April 2005 (session organizer).
18. *3rd Annual European Rheology Conference*, Hersonisos, Crete, Greece, April 2006 (conference co-chair).
19. *First ESR short courses (Interfacial Rheology and Applications, and Multiscale Modeling Methodologies)*, Hersonisos, Crete, Greece, April 2006 (chair of the organizing committee).
20. *11th International Conference on Proprieties and Phase Equilibria for Product and Process Design, PPEPPD07*, Hersonissos, Crete, Greece, May 2007 (member of the local organizing committee).
21. *International Soft Matter Conference*, Aachen, Germany, October 2007 (member of Program Committee).
22. *Colloidal Gels and Glasses*, SOFTCOMP topical meeting and joint EU-IFPRI Workshop, Hersonisos, Crete, Greece, June 13-14, 2008 (organizer).
23. *IFPRI AGM 2009*, Hersonisos, Crete, Greece, June 15-19, 2008 (local arrangements organizer)
24. *XVth International Congress on Rheology*, Monterey, California, USA, August 2008 (member of the International Advisory Committee and Technical Program Committee).
25. *7th Panhellenic Polymer Meeting*, Ioannina, Greece, September-October 2008 (member of the Scientific Committee).
26. *6th Annual European Rheology Conference (AERC)*, Göteborg, Sweden, April 7-9, 2010 (session co-organizer).
27. *2nd International Soft Matter Conference 2010*, Granada, Spain, July 5-8, 2010 (member of the International Program Committee).
28. *MACRO 2010: 43rd IUPAC World Polymer Congress*, Glasgow, UK, July 11-16, 2010 (member of the International Advisory Board).
29. *5th Pacific Rim Conference on Rheology (PRCR5)*, Sapporo, Japan, August 1-6, 2010 (session organizer, member of the program committee).
30. *8th Liquid Matter Conference (LMC8)*, Vienna, Austria, September 6-10, 2011 (member of the International Program Committee).
31. *7th Annual European Rheology Conference (AERC)*, Suzdal, Russia, May 10-14, 2011 (session co-organizer, International Advisory Board).
32. *SOFTCOMP Annual Meeting*, Heraklion, Crete, Greece, May 16-18, 2011 (local organizer).
33. *6th International Meeting of the Hellenic Society of Rheology*, Athens, Greece, June 28-29, 2011 (member of scientific and organizing committees).
34. *MACRO 2012: 44th IUPAC World Polymer Congress*, Virginia Tech, USA, June 24-29, 2012 (Polymer Physics session co-organizer).
35. *3rd International Soft Matter Conference (ISMC2013)*, Rome, Italy, September 15-19, 2013 (member of the International Program Committee).
36. *9th Hellenic Polymer Conference*, Thessaloniki, Greece, November 29 – December 1, 2012 (member of the scientific committee).
37. *9th Annual European Rheology Conference (AERC2014)*, Karlsruhe, Germany, April 8-11, 2014 (session co-organizer).
38. *7th International Meeting of the Hellenic Society of Rheology and Satellite meeting on Attractive Colloids and Gels*, Heraklion, Crete, Greece, July 3-8, 2014 (member of the organizing committee).
39. *10th Annual European Rheology Conference (AERC2015) and Golden Jubilee Meeting of the French Group of rheology (GFR)*, Nantes, France, April 14-17, 2015 (session co-organizer).

40. *Dense Suspension Flow*, Softcomp topical workshop, Edinburgh, UK, June 1-3, 2015 (co-organizer and discussion leader).
41. *8<sup>th</sup> International Meeting of the Hellenic Society of Rheology*, Samos, Greece, June 28- 30, 2015 (member of the scientific committee).
42. *Ring polymers: Advances and Perspectives*, Hersonissos, Crete, July 12-15, 2015 (chair).
43. *87<sup>th</sup> Annual Meeting of the Society of Rheology*, Baltimore, Maryland, USA, October 11-15, 2015 (session co-organizer).
44. *Nanoparticle Assembly: From Fundamentals to Applications: Faraday Discussion*, Indian Institute of Technology Mumbai, India, January 7-9, 2016 (member of the scientific committee).
45. *MACRO 2016: 46<sup>th</sup> IUPAC World Polymer Congress*, Istanbul, Turkey, July 17-21, 2016 (Polymer Physics session co-organizer).
46. *XVII<sup>th</sup> International Congress on Rheology (ICR2016)*, Kyoto, Japan, August 8 – 13, 2016 (member of the international scientific committee).
47. *SOMMIG, Soft Matter Meeting Israel Greece, Ben Gurion University – FORTH*, FORTH, Crete, September 25-27, 2016 (Greek organizer).
48. 11<sup>th</sup> Meeting of the Hellenic Polymer Society, Heraklion, Crete, November 3-5, 2016 (member of the organizing committee).
49. Nanofillers 2017, Aldemar Royal Knossos Village, Hersonissos, Crete, April 2017 (member of the organizing committee).
50. *9<sup>th</sup> International Meeting of the Hellenic Society of Rheology*, Limassol, Cyprus, July 12-14, 2017 (member of the scientific committee).
51. *Supolen meeting on associating polymers*, Hersonissos, Crete, September 21-23, 2017 (member of the organizing and scientific committees).
52. *RINGS workshop*, Hersonissos, Crete, September 25-27, 2017 (chair).
53. *12<sup>th</sup> Hellenic Polymer Society International Conference*, Ioannina, Greece, September 30 – October 3, 2018 (member of the scientific committee).
54. *13<sup>th</sup> Annual European Rheology Conference*, Portoroz, Slovenia, April 8-11, 2019 (session organizer).
55. *9<sup>th</sup> Hellenic Society of Rheology Conference*, Samos, Greece, June 24-27, 2019 (member of the scientific committee).
56. *5<sup>th</sup> International Soft Matter Conference*, Edinburgh, UK, June 3-7, 2019 (member of the Program Committee).
57. *European Polymer Congress EPF*, Hersonissos, Crete, June 9-14, 2019 (member of scientific committee).
58. *SOMMIG, 2<sup>nd</sup> Soft Matter Meeting Israel Greece, Ben Gurion University – FORTH*, Beer Sheva, Israel, February 24-27, 2020 (Greek organizer).
59. *XVIII<sup>th</sup> International Congress on Rheology*, Rio de Janeiro, Brazil (virtual), December 14-17, 2020 (member of the Advisory Board)
60. *13<sup>th</sup> Hellenic Polymer Society International Conference*, Athens, Greece, October 18-22, 2022 (member of the scientific committee).
61. *European Colloid and Interface Society conference*, Chania, Crete, September 6-11, 2022 (member of organizing committee).
62. *XIX<sup>th</sup> International Congress on Rheology*, Athens, Greece, July 29 – August 4, 2023 (chair)

#### **Other Publications (non-refereed) and presentations**

1. D. Vlassopoulos,  
“School Books” (in Greek)  
*Kathimerini* daily newspaper, March 2006
2. D. Vlassopoulos, and C. N. Likos,  
“Vitrification and Melting Scenarios for Soft Colloidal Mixtures: The Star Polymer Paradigm”  
*Softcomp Newsletter*, No.5, December 2007.
3. W. J. Briels, and D. Vlassopoulos,  
“W. W. Graessley, Polymeric Liquids & Networks: Dynamics and Rheology, Garland Science: London and New York, 2008”, Book Review, *Rheol. Acta*, **50**, 711-712 (2011).
4. S. Goossen, A. Bras, R. Pasquino, W. Pyckhout-Hintzen, A. Wischniewski, D. Vlassopoulos, and D. Richter,  
“Rings: Endless challenges for polymers without beginning or end”,  
*Softcomp Newsletter*, No.10, December 2012.
5. D. Vlassopoulos,  
“Attempts to measure nonlinear rheology of entangled branched polymers”,  
*Complex Fluids and Fluid-Fluid Interfaces Symposium to Honor Gerry Fuller’s 60<sup>th</sup> Birthday*, Stanford University, USA, April 15, 2013.
6. D. Vlassopoulos,  
“Rheology and thermoreversible melting of gels from soft colloidal mixtures”,

- Soft Matter Workshop to Honor Jan Dhont's 60<sup>th</sup> Birthday*, Bad Neuenahr, Germany, January 20-21, 2014.
7. D. Vlassopoulos,  
 “Star wars with Professor Briels: from polymers to colloids”,  
 “*From Colloids to Polymers*” *Workshop to Honor Wim Briels' 65<sup>th</sup> Birthday*, Bad Honnef, Germany,  
 November 10-11, 2014.

#### **Outreach Activities:**

- Laboratory training of students (University-undergraduate level, highschool), typically for 2-monthly periods.
- Lectures to broad audiences (highschools).

#### **Research Funding:**

- Uninterrupted support since 1994: (i) EU Brite-Euram, FAIR, ITN: HUSC, Dynacop, Comploids, Supolen; SMALL Nanodirect; ETN: Colldense, DoDyNet ; Network of Excellence Softcomp ; Large scale infrastructures ESMI, EUSMI ; (ii) National (EPET, PAVE, PENED, Heraklitos, Excellence-2011) ; FORTH-IESL Internal Grants for Excellence in Research 2000-1; (iii) inter-institutional (KAUST-Vienna-Princeton-FORTH); NATO Collaborative grant (Univ. British Columbia-FORTH) ; GGSRT bilateral (ESPCI-FORTH, Strasbourg-FORTH, Poznan-FORTH) (iv) industrial: DuPont, Polimeri-Europa (Versalis-ENI), Indevco, Michelin, DPI.

#### **Administrative Activities:**

- Member/Chairman of the Organizing Committees of FO.R.T.H.'s internal review meetings (1996-1999).
- Member of I.E.S.L.'s committees on laboratory/office space/organization (1995-2002), Institute property (1994-1997) and Institute acquisitions (1998-2002).
- Member of the Scientific Council, FO.R.T.H.-I.E.S.L. (1999-2006).
- Deputy Director, FO.R.T.H.-I.E.S.L. (2001-2002).
- Deputy National Representative to EU-FP6-Nanotechnology (2004-2005).
- Graduate Program, Dept. of Materials Science & Technology, Univ. of Crete: Created and chaired the program leading to Masters and PhD degrees (2002-2007 ; 2014-2017).
- Research Committee, Univ. of Crete, member (2009-2010).
- Chairperson, Dept. of Materials Science & Technology, Univ. of Crete (Sept. 2010- Sept. 2013).
- School of Sciences, Committee on Undergraduate Education, member (2014-2016).