

## Asterios (Stergios) Pispas

### Publications

#### Books

N. Hadjichristidis, S. Pispas, G. Floudas  
“Block Copolymers: Synthetic Strategies, Physical Properties and Applications”  
J. Wiley & Sons, Hoboken, 2003.

S. Rangelov and S. Pispas  
“Polymer and Polymer-Hybrid Nanoparticles: From Synthesis to Biomedical Applications”  
CRC Press, Taylor & Francis Group, Boca Raton, 2013.

#### A. Publications in refereed journals

1. S. Pispas, N. Hadjichristidis  
“End Functionalized Block Copolymers of Styrene and Isoprene: Synthesis and Association Behavior in Dilute Solutions”  
Macromolecules 1994, 27, 1891.
2. S. Pispas, N. Hadjichristidis, J. W. Mays  
“Association of End-Functionalized Block Copolymers. Light Scattering and Viscometric Studies”  
Macromolecules 1994, 27, 6307.
3. G. Floudas, T. Pakula, E. W. Fischer, N. Hadjichristidis, S. Pispas  
“Ordering Kinetics in a Symmetric Diblock Copolymer”  
Acta Polymerica 1994, 45, 176.
4. A. Rizos, K. L. Ngai, S. Pispas, N. Hadjichristidis  
“Solvent Reorientation in Block Copolymer Solutions”  
Journal of Noncrystalline Solids 1994, 172-174, 786.
5. G. Floudas, G. Fytas, S. Pispas, N. Hadjichristidis, T. Pakula, A. R. Khokhlov  
“Statics and Dynamics of  $\omega$ -Functionalized Block Copolymers of Styrene and Isoprene”  
Macromolecules 1995, 28, 5109.
6. S. Pispas, M. Pitsikalis, N. Hadjichristidis, P. Dardani, F. Morandi  
“Anionic Polymerization of Isoprene, Butadiene and Styrene with 3-Dimethylaminopropyllithium”  
Polymer 1995, 36, 3005.

7. S. Allorio, S. Pispas, E. Siakali-Kioulafa, N. Hadjichristidis  
“Hydrodynamic Behavior of Anionically Prepared Linear Polyisoprenes and Polystyrenes in Carbon Tetrachloride”  
J. Polym. Sci.: Part B: Polym. Phys. 1995, 33, 2229.
8. A. Borlenghi, M. Pitsikalis, S. Pispas, N. Hadjichristidis  
“Association Behavior of Linear  $\omega$ -Functionalized Polystyrenes in Dilute Solutions”  
Macromol. Chem. and Phys. 1995, 196, 4025.
9. K. Karatasos, S. H. Anastasiadis, G. Floudas, G. Fytas, S. Pispas, N. Hadjichristidis, T. Pakula  
“Composition Fluctuations Effects on Dielectric Normal-Mode Relaxation in Diblock Copolymers. 2. Disordered State in the Proximity to the ODT and Ordered State”  
Macromolecules 1996, 29, 1326.
10. S. Pispas, N. Hadjichristidis, J. W. Mays  
“End-Functionalized Block Copolymers of Styrene and Isoprene. A DSC Study”  
Polymer 1996, 37, 3989.
11. S. Pispas, S. Allorio, N. Hadjichristidis, J. W. Mays  
“Micellization of  $\omega$ -Functionalized Poly(styrene-*b*-isoprene) Copolymers in *n*-Decane”  
Macromolecules 1996, 29, 2903.
12. G. Floudas, S. Pispas, N. Hadjichristidis, T. Pakula, I. Erukhimovich  
“Microphase Separation in Star Block Copolymers of Styrene and Isoprene. Theory, Experiment and Simulation.”  
Macromolecules 1996, 29, 4142.
13. D. J. Pochan, S. P. Gido, S. Pispas, J. W. Mays, A. J. Ryan, J. P. A. Fairclough, N. I. W. Hamley, N. J. Terrill  
“Morphologies of Microphase-Separated A<sub>2</sub>B Simple Graft Copolymers”  
Macromolecules 1996, 29, 5091.
14. D. J. Pochan, S. P. Gido, S. Pispas, J. W. Mays  
“Morphological Transitions in an I<sub>2</sub>S Simple Graft Block Copolymer: From Folded Sheets to Folded Lace to Randomly Oriented Worms at Equilibrium”  
Macromolecules 1996, 29, 5099.
15. S. P. Gido, C. Lee, D. J. Pochan, S. Pispas, J. W. Mays, N. Hadjichristidis  
“Synthesis, Characterization, and Morphology of Model Graft Copolymers with Trifunctional Branch Points”  
Macromolecules 1996, 29, 7022.
16. S. Pispas, N. Hadjichristidis, J. W. Mays  
“Micellization of Model Graft Copolymers of the H and  $\pi$  Type in Dilute Solutions”  
Macromolecules 1996, 29, 7378.
17. G. Agrawal, R. P. Wool, W. D. Dozier, G. P. Felcher, J. Zhou, S. Pispas, J. W. Mays, T. P. Russell

- “Interdiffusion of Polymers Across Interfaces”  
J. Polym. Sci.: Part B: Polym. Phys. 1996, 34, 2919.
18. S. H. Anastasiadis, K. Chrissopoulou, G. Fytas, G. Fleischer, S. Pispas, M. Pitsikalis, J. W. Mays, N. Hadjichristidis  
“Self-Diffusivity in Block Copolymer Solutions. 2. A<sub>2</sub>B Simple Grafts”  
Macromolecules 1997, 30, 2445.
19. X. Wang, Z. Xu, Y. Wan, T. Huang, S. Pispas, J. W. Mays, C. Wu  
“Effects of Deuteration of a Polystyrene Chain on its Thermodynamics and Hydrodynamics in Cyclohexane around the Flory  $\theta$ -Temperature: The Static and Dynamic Laser Light Scattering Investigation”  
Macromolecules 1997, 30, 7202.
20. S. Pispas, Y. Poulos, N. Hadjichristidis  
“Micellization Behavior of (PS)<sub>8</sub>(PI)<sub>8</sub> Miktoarm (Vergina) Star Copolymers”  
Macromolecules 1998, 31, 4177.
21. K. A. Welp, R. P. Wool, S. K. Satijia, S. Pispas, J. W. Mays  
“Dynamics of Polymer Interdiffusion: The Ripple Experiment”  
Macromolecules 1998, 31, 4915.
22. S. Pispas, A. Avgeropoulos, N. Hadjichristidis, J. Roovers  
“Hydrodynamic Properties of A<sub>8</sub>B<sub>8</sub> Type Miktoarm (Vergina) Stars”  
J. Polym. Sci.: Part B: Polym. Phys. 1999, 37, 1329 .
23. K. A. Welp, R. P. Wool, G. Agrawal, S. K. Satijia, S. Pispas, J. W. Mays  
“Direct Observation of Polymer Dynamics: Mobility Comparison between Central and End Section Chain Segments”  
Macromolecules 1999, 32, 5127.
24. S. Sigel, S. Pispas, D. Vlassopoulos, N. Hadjichristidis, G. Fytas  
“Structural Relaxation of Dense Suspensions of Soft Giant Micelles”  
Phys. Rev. Lett. 1999, 83, 4666.
25. M. Pitsikalis, S. Sioula, S. Pispas, N. Hadjichristidis, D. C. Cook, J. Li, J. W. Mays  
“Linking Reactions of Living Polymers with Bromomethylbenzene Derivatives: Synthesis and Characterization of Star Homopolymers and Graft Copolymers with Polyelectrolyte Branches”  
J. Polym. Sci.: Part A: Polym. Chem. 1999, 37, 4337.
26. S. Sigel, S. Pispas, N. Hadjichristidis, D. Vlassopoulos, G. Fytas  
“Dynamic Structure Factor of Diblock Copolymer Solutions in the Disordered State. 1. Far from the Ordering Transition”  
Macromolecules 1999, 32, 8447.
27. S. Pispas, G. Floudas, N. Hadjichristidis  
“Microphase Separation in ABC Block Copolymers with a Short but Strongly Interacting Middle Block”

- Macromolecules 1999, 32, 9074.
28. S. Pispas, N. Hadjichristidis, I. Potemkin, A. Khohlklov  
“Effect of Architecture on the Micellization Properties of Block Copolymers: A<sub>2</sub>B Miktoarm stars vs AB Diblocks”  
Macromolecules 2000, 33, 1741.
29. S. Pispas, N. Hadjichristidis  
“Synthesis and Dilute Solution Properties of Styrene-Isoprene Diblock Copolymers with Mesogenic-Zwitterionic End Groups”  
Macromolecules 2000, 33, 1741.
30. S. H. Anastasiadis, F. Rittig, K. Chrissopoulou, G. Fleischer, G. Fytas, A. N. Semenov, J. Karger, M. Xenidou, S. Pispas, N. Hadjichristidis  
“Chain Trapping in Diblock Copolymers Near the Ordering Transition”  
Europhysics Letters 2000, 51, 68.
31. S. Pispas, N. Hadjichristidis  
“Block Copolymers with Zwitterionic Groups at Specific Sites: Synthesis and Aggregation Behavior in Dilute Solutions”  
J. Polym. Sci.: Part A: Polym. Chem. 2000, 38, 3791.
32. T. Tsoukatos, S. Pispas, N. Hadjichristidis  
“Complex Macromolecular Architectures by Combining TEMPO Living Free Radical and Anionic Polymerization”  
Macromolecules 2000, 33, 9504.
33. T. Tsoukatos, S. Pispas, N. Hadjichristidis  
“Star-Branched Polystyrenes by Nitroxide Living Free-Radical Polymerization”  
J. Polym. Sci.: Part A: Polym. Chem. 2001, 39, 320.
34. D. Vlassopoulos, G. Fytas, S. Pispas, N. Hadjichristidis  
“Spherical Polymeric Brushes Viewed as Soft Colloidal Particles: Zero-Shear Viscosity”  
Physica B 2001, 296, 184.
35. P. Hondrokoukes, G. Floudas, S. Pispas, N. Hadjichristidis  
“Microphase Separation in Normal and Inverse Tapered Block Copolymers of Polystyrene and Polyisoprene. 1. Phase State”  
Macromolecules 2001, 34, 650.
36. P. Moschogianni, S. Pispas, N. Hadjichristidis  
“Multifunctional ATRP Initiators: Synthesis of Four-arm Star Homopolymers of Methyl Methacrylate and Graft Copolymers of Polystyrene and Poly(*t*-butyl methacrylate)”  
J. Polym. Sci.: Part A: Polym. Chem. 2001, 39, 650.
37. L. Yang, S. P. Gido, J. W. Mays, S. Pispas, N. Hadjichristidis  
“Phase Behavior of I<sub>2</sub>S Single Graft Block Copolymer/Homopolymer Blends”  
Macromolecules 2001 34, 4235.

38. G. Floudas, S. Pispas, N. Hadjichristidis, T. Pakula  
“Effect of Zwitterion Substitution on the Structure and Dynamics of Asymmetrically Substituted Polystyrene-*block*-Polyisoprene Diblock and Triblock Copolymers”  
Macromol. Chem. Phys. 2001, 202, 1488.
39. I. Chalari, S. Pispas, N. Hadjichristidis  
“Controlled Free Radical Polymerization of 2-Vinylpyridine in the Presence of Nitroxides”  
J. Polym. Sci.: Part A: Polym. Chem. 2001, 39, 2889.
40. D. Pantazis, S. Pispas, N. Hadjichristidis  
“Synthesis and Stability of Linear and Star Polymers Containing [C<sub>60</sub>] Fullerene”  
J. Polym. Sci.: Part A: Polym. Chem. 2001, 39, 2494.
41. P. Hondrokoukes, S. Pispas, N. Hadjichristidis  
“Controlling Micellar Properties of Styrene/Isoprene Copolymers by Altering the Monomer Arrangement along the Chain”,  
Macromolecules 2002, 35, 834.
42. S. Pispas, E. Siakali-Kioulafa, N. Hadjichristidis, T. Mavromoustakos  
“Block Copolymers with Crystalline/Amorphous, Crystalline/Polyelectrolyte and Amorphous/Polyelectrolyte Blocks”  
Macromol. Chem. Phys. 2002, 203, 1317.
43. K. Sotiriou, A. Nannou, G. Velis, S. Pispas  
“Micellization Behavior of PS(PI)<sub>3</sub> Miktoarm Star Copolymers”  
Macromolecules 2002, 35, 4106.
44. R. Sigel, G. Fytas, N. Vainos, S. Pispas, N. Hadjichristidis  
“Pattern Formation in Homogeneous Polymer Solutions Induced by a Continuous-Wave Visible Laser”  
Science 2002, 297, 67.
45. P. Holmqvist, S. Pispas, R. Sigel, N. Hadjichristidis, G. Fytas  
“Dynamic Structure Factor of Diblock Copolymer Solutions in the Disordered State. 2. Effect of Composition Polydispersity”  
Macromolecules 2002, 35, 3157.
46. F. J. M. Schipper, G. Floudas, S. Pispas, N. Hadjichristidis, T. Pakula  
“The Phase State of Poly(butadiene-*b-tert*-butylmethacrylate) and Poly(ethylene-*b-tert*-butylmethacrylate) Diblock Copolymers”  
Macromolecules 2002, 35, 8860.
47. M-K. Park, J. H. Youk, S. Pispas, N. Hadjichristidis, R. Advincula  
“Adsorption Behavior of Polystyrene-Polyisoprene) Diblock Copolymers with Zwitterionic Groups Using Quartz Crystal Microbalance: Effect of Different Microstructures”  
Langmuir 2002, 18, 8040.

48. R. Advincula, Q. Zhou, M. Park, S. Wang, J. W. Mays, G. Sakellariou, S. Pispas, N. Hadjichristidis  
“Polymer Brushes by Living Anionic Surface Initiated Polymerization on Flat Silicon (SiO<sub>x</sub>) and Gold Surfaces: Homopolymers and Block Copolymers”  
Langmuir 2002, 18, 8672.
49. S. Pispas, N. Hadjichristidis  
“Aggregation Behavior of Poly(butadiene-*b*-ethylene oxide) Block Copolymers in Dilute Aqueous Solutions: Effect of Concentration, Temperature, Ionic Strength and Type of Surfactant”  
Langmuir 2003, 19, 48.
50. S. Pispas, G. Floudas, T. Pakula, G. Lieser, G. Sakellariou, N. Hadjichristidis  
“Miktoarm Block Copolymer Formation via Ionic Interactions”  
Macromolecules 2003, 36, 759.
51. P. Holmqvist, S. Pispas, N. Hadjichristidis, G. Fytas, R. Sigel  
“Dynamic Structure Factor of Diblock Copolymers Solutions in the Disordered State. 3. The Non-Mean-Field Regime”  
Macromolecules 2003, 36, 830.
52. G. Sakellariou, S. Pispas, N. Hadjichristidis  
“Model  $\omega$ -Functionalized Linear Polystyrenes with One, Two and Three Sulfobetaine End Groups: Synthesis, Characterization and Association Behavior”  
Macromol. Chem. Phys. 2003, 204, 146.
53. S. H. Anastasiadis, H. Retsos, S. Pispas, N. Hadjichristidis, S. Neophytidis  
“Smart Polymer Surfaces”  
Macromolecules 2003, 36, 1994.
54. K. Orfanou, D. Topouza, G. Sakellariou, S. Pispas  
“Graft-like Interpolymer Complexes from Poly(2-vinylpyridine) and End-sulfonic acid Polystyrene and Polyisoprene: Intermediates to Non-covalently Bonded Block Copolymer-like Micelles”  
J. Polym. Sci.: Part A: Polym. Chem. 2003, 41, 2454.
55. S. Pispas, N. Hadjichristidis  
“Micellization Behavior of Poly(butadiene-*b*-sodium methacrylate) Copolymers in Dilute Aqueous Media”  
Macromolecules 2003, 36, 8732.
56. K. Sotiriou, S. Pispas, N. Hadjichristidis  
“Effect of the end-positioning of lithium sulfonate group on the aggregation and micellization behavior of  $\omega$ -lithiumsulfonate poly(styrene-*b*-isoprene)s”  
Macromol. Chem. Phys. 2004, 205, 55.
57. C. M. Fernyhough, I. Chalari, S. Pispas, N. Hadjichristidis  
“Micellar Behavior of a Well-defined Dendritic Polymer (PS<sub>2</sub>PI)<sub>3</sub>: The Effects of Architecture and Solvent Selectivity”  
Eur. Polym. J. 2004, 40, 73.

58. C. M. Fernyhough, D. Pantazis, S. Pispas, N. Hadjichristidis  
“The Micellar Behavior of Linear Triblock Terpolymers of Styrene (S), Isoprene (I), and Methyl Methacrylate (MMA) in Selective Solvents for PS and PMMA”  
Eur. Polym. J. 2004, 40, 237.
59. H. Retsos, S. H. Anastasiadis, S. Pispas, J. W. Mays, N. Hadjichristidis  
“Interfacial Tension in Binary Polymer Blends in the Presence of Block Copolymers: II. Effects of Additive Architecture and Composition”  
Macromolecules 2004, 37, 524.
60. M. Al-Hussein, W. H. de Jeu, L. Vranichar, S. Pispas, N. Hadjichristidis, T. Itoh, J. Watanabe  
“Bulk and Thin Film Ordering in Side-Chain Liquid-Crystalline/Amorphous Diblock Copolymers: The Role of Chain Length”  
Macromolecules 2004, 37, 6401.
61. P. Holmqvist, G. Fytas, S. Pispas, N. Hadjichristidis, K. Saijo, H. Tanaka, T. Hashimoto  
“Solvent Quality, Phase Coexistence, and Dynamics in Ultrahigh Molecular Weight Diblock Copolymer Solutions”  
Macromolecules 2004, 37, 4909.
62. D. Topouza, K. Orfanou, S. Pispas  
“Thermosensitive Non-covalently Bonded Block Copolymerlike Micelles from Interpolymer Complexes”  
J. Polym. Sci. Part A: Polym. Chem. 2004, 42, 6230.
63. G. Koutalas, S. Pispas, N. Hadjichristidis  
“Micelles of poly(isoprene-*b*-2-vinylpyridine-*b*-ethylene oxide) terpolymers in aqueous media and their interaction with surfactants”  
Eur. Phys. J. E 2004, 15, 457.
64. G. Mountrichas, M. Mpiri, S. Pispas  
“Micelles of Star Block (PSPI)<sub>8</sub> and PSPI Diblock Copolymers (PS=Polystyrene, PI=Polyisoprene): Structure and Kinetics of Micellization”  
Macromolecules 2005, 38, 940.
65. T. Grigorova, S. Pispas, N. Hadjichristidis, T. Thurn-Albrecht  
“Magnetic Field Induced Orientation in Diblock Copolymers with one Crystallizable Block”  
Macromolecules 2005, 38, 7430.
66. G. Manasis, A. Tsigara, A. Giannoudakos, G. Anyfantis, K. Gatsouli, G. Mousdis, S. Pispas, N. Madamopoulos and N. Vainos  
“Cobalt chloride based nanocomposite humidity sensors”,  
Glass Technology 2005, 46, 171.
67. K.D. Gatsouli, S. Pispas, G. Mousdis, G.C. Papavassiliou, and E.I. Kamitsos  
“Hybrid materials based on CdS and CdSe nanoparticles in glassy block copolymers”,

- Phys. Chem. Glasses 2005, 46, 197.
68. K.D. Gatsouli, S. Pispas, G. Mousdis, N. Vainos, P. Alukos, E. Xerogiannopoulou and S. Couris  
“Nonlinear optical properties of fullerene-organic glassy polymer composites”,  
Glass Technology 2005, 46, 62.
69. S. Pispas  
“Double Hydrophilic Block Copolymers of Sodium(2-sulfamate-3-carboxylate)  
Isoprene and Ethylene Oxide”  
J. Polym. Sci. Part A: Polym. Chem. 2006, 44, 606.
70. C. Vasilev, G. Reiter, S. Pispas, N. Hadjichristidis  
“Crystallization of block copolymers in restricted cylindrical geometries”  
Polymer 2006, 47, 330.
71. G. Mountrichas, C. Mantzaridis, S. Pispas  
“Well-defined flexible polyelectrolytes with two cationic sites per monomeric unit”  
Macromol. Rapid Comm. 2006, 27, 289.
72. S. Pispas  
“Soluble complexes of sodium poly(isoprene-b-methacrylate) micelles with cationic  
surfactants in aqueous media”  
J. Phys. Chem. B 2006, 110, 2649.
73. G. Mountrichas, S. Pispas  
“Synthesis and pH responsive self-assembly of new double hydrophilic block  
copolymers”  
Macromolecules 2006, 39, 4767.
74. M. Konstantaki, S. Pissadakis, S. Pispas, N. Madamopoulos, N. A. Vainos  
“Optical fiber long-period grating humidity sensor with poly(ethylene oxide)/cobalt  
chloride coating”  
Appl. Optics 2006, 45, 4567.
75. S. Pispas, D. Vlassopoulos, G. Fytas, B. Loppinet, N. Hadjichristidis  
“Modifying the rheological behavior of associative triblock copolymer in aqueous  
media through surfactant additives”  
Polymer 2006, 47, 7302.
76. K. Sotiriou, S. Pispas, N. Hadjichristidis  
“Controlling the colloidal behavior of styrene-isoprene diblock copolymers by  
selective end functionalization”  
Colloids & Surfaces A: Physicochem. Eng. Aspects 2007, 293, 51.
77. A. Tsigara, G. Mountrichas, K. Gatsouli, A. Nichelatti, S. Pispas, N.  
Madamopoulos, N. A. Vainos, H. Du, F. Roubani-Kalantzopoulou  
“Hybrid polymer/cobalt chloride humidity sensors based on optical diffraction”  
Sensors & Actuators B 2007, 120, 481.

78. S. Pispas

“Complexes of lysozyme with sodium (sulfamate-carboxylate)isoprene/ethylene oxide double hydrophilic block copolymers”

J. Polym. Sci. Part A: Polym. Chem. 2007, 45, 509.

79. G. Mountrichas, S. Pispas, N. Tagmatarchis  
“Aqueous carbon nanotube-amphiphilic block copolymer nanoensembles: Towards realization of charge-transfer processes with semiconductor quantum dots”  
Small 2007, 3, 404.
80. G. Mountrichas, S. Pispas, E. Xenogiannopoulou, P. Aloukos, S. Couris  
“Aqueous dispersions of C<sub>60</sub> fullerene by use of amphiphilic block copolymers: Preparation and nonlinear optical properties”  
J. Phys. Chem. B 2007, 111, 4315.
81. S. Pispas, E. Sarantopoulou  
“Self-assembly in mixed aqueous solutions of amphiphilic block copolymers and vesicle-forming surfactant”  
Langmuir 2007, 23, 7484.
82. E. Sarantopoulou, K. Gatsouli, Z. Kollia, S. Pispas, S. Kobe, J. Kovac  
“Micro/nano self assembled 2D structures of block copolymer/Fe hybrids”  
Phys. Stat. Sol. A 2007, 204, 1835.
83. G. Mountrichas, S. Pispas, N. Tagmatarchis  
“Synthesis and solution behavior of carbon nanotubes decorated with amphiphilic block polyelectrolytes”  
J. Phys. Chem. B 2007, 111, 8369.
84. S. Pispas  
“Complexes of polyelectrolyte-neutral double hydrophilic block copolymers with oppositely charged surfactant and polyelectrolyte”  
J. Phys. Chem. B 2007, 111, 8351.
85. G. Mountrichas, S. Pispas, N. Tagmatarchis  
“Grafting living polymers onto carbon nanohorns”  
Chem. Eur. J. 2007, 13, 7595.
86. D. Tasis, S. Pispas, C. Galiotis, N. Bouropoulos  
“Growth of calcium carbonate on non-covalently modified carbon nanotubes”  
Materials Letters 2007, 61, 5044.
87. K. D. Gatsouli, S. Pispas, E. I. Kamitsos  
“Development and optical properties of cadmium sulfide and cadmium selenide nanoparticles in amphiphilic block copolymer micellar-like aggregates”  
J. Phys. Chem. C 2007, 111, 15201.
88. G. Mountrichas, S. Pispas  
“Novel double hydrophilic block copolymers based on poly(p-hydroxystyrene) derivatives and poly(ethylene oxide)”  
J. Polym. Sci. Part A: Polym. Chem. 2007, 45, 5790.
89. V. Papadimitriou, S. Pispas, S. Syriou, A. Pournara, M. Zoumpanioti, T. G. Sotiroudis, A. Xenakis

- “Biocompatible microemulsions based on limonene: Formulation, structure, and applications”  
Langmuir 2008, 24, 3380.
90. L. Hilliou, D. Vlassopoulos, S. Pispas, N. Hadjichristidis  
“A rheo-optical study of stress-fluctuations coupling in a disordered and entangled diblock copolymer solution”  
Macromolecules 2008, 41, 3328.
91. F. Zhao, D. Xie, G. Zhang, S. Pispas  
“Thermosensitive complex amphiphilic block copolymer micelles investigated by laser light scattering”  
J. Phys. Chem. B 2008, 112, 6358.
92. E. Glynos, S. Pispas, V. Koutsos  
“Amphiphilic diblock copolymers on mica: Formation of flat polymer nanoislands and evolution to protruding surface micelles”  
Macromolecules 2008, 41, 4313.
93. A. Meristoudi, S. Pispas, N. Vainos  
“Self-assembly in solutions of block and random copolymers during metal nanoparticle formation”  
J. Polym. Sci. Part B: Polym. Phys. 2008, 46, 1515.
94. M-K. Park, G. Sakellariou, S. Pispas, N. Hadjichristidis, R. Advincula  
“On the quantitative adsorption behavior of multi-zwitterionic end-functionalized polymers onto gold surfaces”  
Colloids and Surfaces A: Physicochem. Eng. Aspects 2008, 326, 115.
95. E. F. Ioannou, G. Mountrichas, S. Pispas, E. I. Kamitsos, G. Floudas  
“Lithium ion induced nanophase ordering and ion mobility in ionic block copolymers”  
Macromolecules 2008, 41, 6183.
96. G. Mountrichas, G. Pagona, G. Rotas, N. Karousis, S. Pispas, N. Tagmatarchis  
“Methodologies for the chemical functionalization of carbon nanohorns”  
J. Nanostructured Polymers and Composites 2008, 4, 28.
97. M. Talelli, S. Pispas  
“Complexes of cationic block copolymer micelles with DNA: Histone/DNA complex mimetics”  
Macromol. Biosci. 2008, 8, 960.
98. G. Mountrichas, N. Tagmatarchis, S. Pispas  
“Functionalization of carbon nanohorns with polyethylene oxide: Synthesis and incorporation in a polymer matrix”  
J. Nanosci. Nanotechnol. 2008, 8, 1.
99. M. Uchman, K. Prochazka, M. Stepanek, G. Mountrichas, S. Pispas, M. Spirkova, A. Walther

- “pH-dependent self-assembly of polystyrene-block-poly((sulfamate-carboxylate)isoprene) copolymer in aqueous media”  
Langmuir 2008, 24, 12017.
100. K. Iliopoulos, D. Athanasiou, A. Meristoudi, N. Vainos, S. Pispas, S. Couris  
“Nonlinear optical properties of Au nanoclusters encapsulated into hybrid block copolymer micelles”  
Phys. Stat. Sol. A 2008, 205, 2635.
101. E. Sarantopoulou, J. Kovac, S. Pispas, S. Kobe, Z. Kollia, A. C. Cefalas  
“Self-assembled ferromagnetic and superparamagnetic structures of hybrid Fe block copolymers”  
Superlattices and Microstructures 2008, 44, 457.
102. G. Mountrichas, S. Pispas, N. Tagmatarchis  
“Grafting-to approach for the functionalization of carbon nanotubes with polystyrene”  
Materials Science and Engineering B 2008, 152, 40.
103. C. Mantzaridis, S. Pispas  
“Hybrid compound block copolymer micelles encapsulating gold nanoparticles”  
Macromol. Rapid Commun. 2008, 29, 1793.
104. M. Anyfantakis, B. Loppinet, G. Fytas, S. Pispas  
“Optical spatial solitons and modulation instabilities in transparent entangled polymer solutions”  
Optics Letters 2008, 33, 2839.
105. M. Guo, M. Jiang, S. Pispas, W. Yu, C. Zhou  
“Supramolecular hydrogels made of end-functionalized low-molecular-weight PEG and  $\alpha$ -cyclodextrin and their hybridization with SiO<sub>2</sub> nanoparticles through host-guest interaction”  
Macromolecules 2008, 41, 9744.
106. G. Pagona, G. Mountrichas, G. Rotas, N. Karousis, S. Pispas, N. Tagmatarchis  
“Properties, applications and functionalization of carbon nanohorns”  
Int. J. Nanotechnol. 2009, 6, 176.
107. D. Xie, C. A. Rezende, G. Liu, S. Pispas, G. Zhang, L-T. Lee  
“Effect of hydrogen-bonding complexation on the interfacial behavior of poly(isoprene)-b-poly(ethylene oxide) and poly(isoprene)-b-poly(acrylic acid) Langmuir monolayers”  
J. Phys. Chem. B 2009, 113, 739.
108. A. Meristoudi, L. Athanasekos, M. Vasileiadis, S. Pispas, G. Mousdis, E. Karoutsos, D. Alexandropoulos, H. Du, A. Tsigara, K. Kibasi, A. Perrone, N. A. Vainos  
“Nanocomposite hybrid photonic media for remote point sensors”  
J. Opt. A: Pure Appl. Opt. 2009, 11, 034005.
109. G. Mountrichas, T. Ichihashi, S. Pispas, M. Yudasaka, S. Ijima, N. Tagmatarchis

“Solubilization of carbon nanohorns by block polyelectrolyte wrapping and templated formation of gold nanoparticles”

J. Phys. Chem. C 2009, 113, 5444.

110. G. Mountrichas, N. Tagmatarchis, S. Pispas

“Functionalization of carbon nanohorns with polyethylene oxide: Synthesis and incorporation in a polymer matrix”

J. Nanosci. Nanotechnol. 2009, 9, 3775.

111. G. Basina, G. Mountrichas, E. Devlin, N. Boukos, D. Niarchos, D. Petridis, S. Pispas, V. Tzitzios

“Synthesis and magnetic properties of Fe<sub>3</sub>O<sub>4</sub> nanoparticles coated with biocompatible double hydrophilic block copolymer”

J. Nanosci. Nanotechnol. 2009, 9, 4753.

112. A. Stocco, K. Tauer, S. Pispas, R. Sigel

“Dynamics at the air-water interface revealed by evanescent wave light scattering”

Eur. Phys. J. E 2009, 29, 95.

113. C. Mantzaridis, G. Mountrichas, S. Pispas

“Complexes between high charge density cationic polyelectrolytes and anionic single- and double-tail surfactants”

J. Phys. Chem. B 2009, 113, 7064.

114. A. Meristoudi, S. Pispas

“Polymer mediated formation of corona-embedded gold nanoparticles in block polyelectrolyte micelles”

Polymer 2009, 50, 2743.

115. J. Zhao, G. Zhang, S. Pispas

“Morphological transitions in aggregates of thermosensitive poly(ethylene oxide)-b-poly(N-isopropylacrylamide) block copolymers prepared via RAFT polymerization”

J. Polym. Sci. Part A: Polym. Chem. 2009, 47, 4099.

116. J. Zhao, S. Pispas, G. Zhang

“Effect of sonication on polymeric aggregates formed by poly(ethylene oxide)-based amphiphilic block copolymers”

Macromol. Chem. Phys. 2009, 210, 1026.

117. M. Uchman, M. Stepanek, K. Prochazka, G. Mountrichas, S. Pispas, I. K. Voets, A. Walther

“Multicompartment nanoparticles formed by a heparin-mimicking block terpolymer in aqueous solutions”

Macromolecules 2009, 42, 5605.

118. A. Koutsioubas, N. Spiliopoulos, D. Anastassopoulos, A. Vradis, C. Toprakcioglu, A. Menelle, G. Mountrichas, S. Pispas

“Neutron reflectivity study of free-end distribution in polymer brushes”

Macromolecules 2009, 42, 6209.

119. J. Zhao, G. Zhang, S. Pispas  
“Thermo-induced aggregation behavior of poly(ethylene oxide)-*b*-poly(*N*-isopropylacrylamide) block copolymers in the presence of cationic surfactants”  
J. Phys. Chem. B 2009, 113, 10600.
120. J. Zhao, G. Mountrichas, G. Zhang, S. Pispas  
“Amphiphilic polystyrene-*b*-poly(*p*-hydroxystyrene-*g*-ethylene oxide) block-graft copolymers via a combination of conventional and metal-free anionic polymerization”  
Macromolecules 2009, 42, 8661.
121. G. Mountrichas, A. S. D. Sandanayaka, S. P. Economopoulos, S. Pispas, O. Ito, T. Hasobe, N. Tagmatarchis  
“Photoinduced electron transfer in aqueous carbon nanotube/block copolymer/ CdS hybrids: application in the construction of photochemical cells”  
J. Mater. Chem. 2009, 19, 8990.
122. E. Kaditi, S. Pispas  
“ $\beta$ -Lactam functionalized poly(isoprene-*b*-ethylene oxide) amphiphilic block copolymers”  
J. Polym. Sci. Part A: Polym. Chem. 2010, 48, 24.
123. G. Gao, Y. Yan, S. Pispas, P. Yao  
“Sustained and extended release with structural and activity recovery of lysozyme from complexes with sodium (sulfamate-carboxylate)isoprene/ethylene oxide block copolymer”  
Macromol. Biosci. 2010, 10, 139.
124. J. Zhao, G. Mountrichas, G. Zhang, S. Pispas  
“Thermoresponsive core-shell brush copolymers with poly(propylene oxide)-block-poly(ethylene oxide) side chains via a “grafting from” technique”  
Macromolecules 2010, 43, 1771.
125. E. van Ruymbeke, A. Pamvouxoglou, D. Vlassopoulos, G. Petekidis, G. Mountrichas, S. Pispas  
“Stable responsive diblock copolymer micelles for rheology control”  
Soft Matter 2010, 6, 881.
126. J. Zhao, G. Zhang, S. Pispas  
“Thermoresponsive brush copolymers with poly(propylene oxide-*ran*-ethylene oxide) side chains via metal-free anionic polymerization “grafting from” technique”  
J. Polym. Sci. Part A: Polym. Chem. 2010, 48, 2320.
127. K. Gardikis, K. Dimas, A. Georgopoulos, E. Kaditi, S. Pispas, C. Demetzos  
“ $\beta$ -lactam Functionalized Poly(Isoprene-*B*-Ethylene Oxide) Amphiphilic Block Copolymer Micelles as a New Nanocarrier System for Curcumin”  
Current Nanoscience 2010, 6, 277.
128. G. Mountrichas, S. Pispas, T. Ichihashi, M. Yudasaka, S. Iijima, N. Tagmatarchis  
“Polymer covalent functionalization of carbon nanohorns using bulk free radical polymerization”

Chem. Eur. J. 2010, 16, 5927.

129. B. Liu, X. Chen, D. Fang, A. Perone, S. Pispas, N. A. Vainos  
“Environmental monitoring by thin film nanocomposite sensors for cultural heritage preservation”

J. Alloys Compd. 2010, 504S, S405.

130. A. Papagiannopoulos, M. Karagianni, G. Mountrichas, S. Pispas, A. Radulescu  
“Self-assembled nanoparticles from a block polyelectrolyte in aqueous media: Structural characterization by SANS”

J. Phys. Chem. B 2010, 114, 7482 .

131. M. Karayianni, G. Mountrichas, S. Pispas  
“Solution behavior of poly(sodium(sulfamate-carboxylate)isoprene), a pH sensitive and intrinsically hydrophobic polyelectrolyte”

J. Phys. Chem. B 2010, 114, 10748.

132. N. Lagopati, P. V. Kitsiou, A. I. Kontos, P. Venieratos, E. Kotsopoulou, A. G. Kontos, D. D. Dionysiou, S. Pispas, E. C. Tsilibary, P. Falaras  
“Photo-induced treatment of breast epithelial cancer cells using nanostructured titanium dioxide solution”

J. Photochem. Photobiology A: Chemistry 2010, 214, 215.

133. X. Li, K. Hong, Y. Liu, C-Y. Shew, E. Liu, K. W. Herwig, G. S. Smith, J. Zhao, G. Zhang, S. Pispas, W-R. Chen  
“Water distributions in polystyrene-block-poly[styrene-g-poly(ethylene oxide)] block grafted copolymer system in aqueous solutions revealed by contrast variation small angle neutron scattering study”

J. Chem. Phys. 2010, 133, 144912.

134. M. Anyfantakis, G. Fytas, C. Mantzaridis, S. Pispas, H-J. Butt, B. Loppinet  
“Experimental investigation of long time irradiation in polydiene solutions: reversibility and instabilities”

J. Opt. 2010, 12, 124013.

135. S. Pispas  
“Self-assembled nanostructures in mixed anionic-neutral double hydrophilic block copolymer/cationic vesicle-forming surfactant solutions”

Soft Matter 2011, 7, 474.

136. A. Stocco, K. Tauer, S. Pispas, R. Sigel  
“Dynamics of amphiphilic diblock copolymers at the air-water interface”

J. Colloid Interface Sci. 2011, 355, 172.

137. E. D. Tzika, M. Christoforou, S. Pispas, M. Zervou, V. Papadimitriou, T. G. Sotiroudis, E. Leontidis, A. Xenakis

“Influence of nanoreactor environment and substrate location on the activity of horseradish peroxidase in olive oil based water-in-oil microemulsions”

Langmuir 2011, 27, 2692.

138. D. Moncke, G. Mountrichas, S. Pispas, E. I. Kamitsos  
“Orientation phenomena in chromophore DR1-containing polymer films and their non-linear optical response”  
Mater. Sci. Eng. B 2011, 176, 515.
139. H. Ge, S. Pispas, C. Wu  
“How does a star chain (nanooctopus) crawl through a nanopore?”  
Polym. Chem. 2011, 2, 1071.
140. M. Stepanek, P. Matejcek, K. Prochazka, S. K. Filippov, B. Angelov, M. Slouf, G. Mountrichas, S. Pispas  
“Polyelectrolyte-surfactant complexes formed by poly-[3,5-bis(trimethylammoniummethyl)-4-hydroxystyrene iodide]-block-poly(ethylene oxide) and sodium dodecyl sulfate in aqueous solutions”  
Langmuir 2011, 27, 5275.
141. V. Papadimitriou, E. D. Tzika, S. Pispas, T. G. Sotiroudis, A. Xenakis  
“Microemulsions based on virgin olive oil: A model biomimetic system for studying native oxidative enzymatic activities”  
Colloids & Surfaces A: Physicochem. Eng. Aspects 2011, 382, 232.
142. D. Moncke, G. Mountrichas, S. Pispas, E. I. Kamitsos, V. Rodriguez  
“SHG and orientation phenomena in chromophore DR1-containing polymer films”  
Photonics and Nanostructures-Fundamental and Applications 2011, 9, 119.
143. M. Karayianni, S. Pispas, G. D. Chryssikos, V. Gionis, S. Giatrellis, G. Nounesis  
“Complexation of lysozyme with poly(sodium (sulfamate-carboxylate)isoprene)”  
Biomacromolecules 2011, 12, 1697.
144. C. Mantzaridis, S. Pispas  
“Poly[(sodium sulfamate/carboxylate)isoprene-b-2-vinyl pyridine] block polyampholytes: Synthesis and self-assembly in aqueous media”  
J. Polym. Sci. Part A: Polym. Chem. 2011, 49, 3090.
145. M. Uchman, K. Prochazka, K. Gatsouli, S. Pispas, M. Spirkova  
“CdS-containing nano-assemblies of double hydrophilic block copolymers in water”  
Colloid Polym. Sci. 2011, 289, 1045.
146. H. Yang, J. Zhao, M. Yan, S. Pispas, G. Zhang  
“Nylon 3 synthesized by ring opening polymerization with metal-free catalyst”,  
Polym. Chem.. 2011, 2, 2888.
- 147 H. Yang, M. Yan, S. Pispas, G. Zhang  
“Synthesis of poly[(ethylene carbonate)-co-(ethylene oxide)] copolymer by phosphazene-catalyzed ROP”  
Macromol. Chem. Phys. 2011, 212, 2589.
148. M. Stepanek, J. Hajduova, K. Prochazka, M. Slouf, J. Nebesarova, G. Mountrichas, C. Mantzaridis, S. Pispas

“Association of poly(4-hydroxystyrene)-block-poly(ethylene oxide) in aqueous solutions: Block copolymer nanoparticles with intermixed blocks”  
Langmuir 2012, 28, 307.

149. A. K. Varkouhi, G. Mountrichas, R. M. Schiffelers, T. Lammers, G. Storm, S. Pispas, W. E. Hennik  
“Polyplexes based on cationic polymers with strong nucleic acid binding properties”  
Eur. J. Pharm. Sci. 2012, 45, 459.

150. M. Anyfantakis, A. Koniger, S. Pispas, W. Kohler, H-J. Butt, B. Loppinet, G. Fytas  
“Versatile light actuated matter manipulation in transparent non-dilute polymer solutions”  
Soft Matter 2012, 8, 2382.

151. Y. Milonaki, E. Kaditi, S. Pispas, C. Demetzos  
“Amphiphilic gradient copolymers of 2-methyl- and 2-phenyl-2-oxazoline: Self-organization in aqueous media and drug encapsulation”  
J. Polym. Sci. Part A: Polym. Chem. 2012, 50, 1226.

152. E. Haladjova, S. Rangelov, C. B. Tsvetanov, S. Pispas  
“DNA encapsulation via nanotemplates from cationic block copolymer micelles”  
Soft Matter 2012, 8, 2884.

153. H. Yang, J. Xu, S. Pispas, G. Zhang  
“Hybrid copolymerization of  $\epsilon$ -caprolactone and methyl methacrylate”  
Macromolecules 2012, 45, 3312.

154. N. Pippa, S. Pispas, C. Demetzos  
“The fractal hologram and elucidation of the structure of liposomal carriers in aqueous and biological media”  
Int. J. Pharm. 2012, 430, 65.

155. M. Anyfantakis, B. Loppinet, G. Fytas, C. Mantzaridis, S. Pispas, H-J. Butt,  
“Self-induced transparency in diblock copolymer dispersions”  
Optics Letters 2012, 37, 2487.

156. A-L. Brocas, M. Gervais, S. Carlotti, S. Pispas  
“Amphiphilic diblock copolymers based on ethylene oxide and epoxides bearing aliphatic side chains”  
Polym. Chem. 2012, 3, 2148.

157. M. Karayianni, S. Pispas  
“Complexation of stimuli-responsive star-like amphiphilic block polyelectrolyte micelles with lysozyme”  
Soft Matter 2012, 8, 8758.

158. A. Bakandritsos, A. Papagiannopoulos, E. N. Anagnostou, K. Avgoustakis, R. Zboril, S. Pispas, J. Tucek, V. Ryukhtin, N. Bouropoulos, A. Kolokithas-Ntoukas, T. A. Steriotis, U. Keiderling, F. Winnefeld

“Merging high doxorubicin loading with pronounced magnetic response and biopellent properties in hybrid drug nanocarriers”

Small 2012, 8, 2381.

159. M. Stepanek, J. Skvarla, M. Uchman, K. Prochazka, B. Angelov, L. Kovacik, V. M. Garamus, C. Mantzaridis, S. Pispas

“Wormlike core-shell nanoparticles formed by co-assembly of double hydrophilic block polyelectrolyte with oppositely charged fluorosurfactant”

Soft Matter 2012, 8, 9412.

160. N. Pippa, S. Pispas, C. Demetzos

“The delineation of the morphology of charged liposomal vectors via fractal analysis in aqueous and biological media: Physicochemical and self-assembly studies”

Int. J. Pharm. 2012, 437, 264.

161. T. Skaltsas, N. Karousis, H-J. Yan, C-R. Wang, S. Pispas, N. Tagmatarchis  
“Graphene exfoliation in organic solvents and switching solubility in aqueous media with the aid of amphiphilic block copolymers”

J. Mater. Chem. 2012, 22, 21507.

162. L. Athansekos, M. Vasileiadis, C. Mantzaridis, V. C. Karoutsos, I. Koutselas, S. Pispas, N. A. Vainos

“Micro-fabrication by laser radiation forces: A direct route to reversible free-standing three-dimensional structures”

Optics Express 2012, 20, 24735.

## **B. Invited review articles**

163. N. Hadjichristidis, S. Pispas, M. Pitsikalis

“Synthesis and Self-Assembly of Model  $\omega$ -Sulfozwitterionic Polymers”

Chimika Chronika, New Series 1997, 26, 405.

164. M. Pitsikalis, S. Pispas, N. Hadjichristidis, J. W. Mays

“Nonlinear Block Copolymer Architectures”

Adv. Polym. Sci. 1998, 135, 1.

165. N. Hadjichristidis, S. Pispas, M. Pitsikalis, H. Iatrou, C. Vlahos

“Asymmetric Star Polymers: Synthesis and Properties”

Adv. Polym. Sci. 1999, 142, 71.

166. N. Hadjichristidis, S. Pispas, M. Pitsikalis

“End-Functionalized Polymers with Zwitterionic End-Groups”

Prog. Polym. Sci. 1999, 24, 875.

167. N. Hadjichristidis, H. Iatrou, S. Pispas, M. Pitsikalis

“Anionic Polymerization: High Vacuum Techniques”

J. Polym. Sci.: Part A: Polym. Chem. 2000, 38, 3211.

168. N. Hadjichristidis, M. Pitsikalis, S. Pispas, H. Iatrou

“Polymers with Complex Architecture by Living Anionic Polymerization”

Chem. Rev. 2001, 101, 3747.

169. N. Hadjichristidis, S. Pispas, H. Iatrou, M. Pitsikalis  
“Linking Chemistry and Anionic Polymerization”  
Current Organic Chemistry, 2002, 6, 155.
170. N. Hadjichristidis, M. Pitsikalis, H. Iatrou, S. Pispas  
“The Strength of the Macromonomer Strategy for Complex Macromolecular Architectures. Molecular Characterization, Properties and Applications of Polymacromonomers”  
Macromol. Rapid. Commun. 2003, 24, 979.
171. N. Hadjichristidis, H. Iatrou, M. Pitsikalis, S. Pispas, A. Avgeropoulos  
“Linear and non-linear triblock terpolymers: Synthesis, self-assembly in selective solvents and in bulk”  
Prog. Polym. Sci. 2005, 30, 725.
172. N. Hadjichristidis, S. Pispas  
“Designed block copolymers for ordered polymeric nanostructures”  
Adv. Polym. Sci. 2006, 200, 37.
173. E. Kaditi, G. Mountrichas, S. Pispas  
“Amphiphilic block copolymers by a combination of anionic polymerization and selective post-polymerization functionalization”  
Eur. Polym. J. 2011, 47, 415.
174. S. Pispas  
“Vesicular structures in mixed block copolymer/surfactant solutions”  
Soft Matter 2011, 7, 8697.
175. E. Kaditi, G. Mountrichas, S. Pispas, C. Demetzos  
“Block copolymers for drug delivery nano systems (DDnSs)”,  
Curr. Med. Chem. 2012, 19, 5088.

### **C. Publications in Proceedings of International Conferences**

176. G. Floudas, G. Fytas, S. Pispas, N. Hadjichristidis, T. Pakula, A. R. Khokhlov  
“Self-assembly in  $\omega$ -Functionalized Block Copolymers of Styrene and Isoprene”  
Macromol. Symp. 1996, 106, 137.
177. P. Holmqvist, S. Pispas, N. Hadjichristidis, G. Fytas  
“Dynamic Structure Factor of Homogeneous Diblock Copolymers Solutions”  
Macromol. Symp., 2002, 183, 185.
178. N. Hadjichristidis, S. Pispas, M. Pitsikalis  
“Model Polymers with Dimethylamine and Sulfozwitterionic End-Groups. Synthesis and Self Assembly in Solution and in Bulk”  
Kovine, Zlitine, Tehnologije 1997, 31(6), 571.

179. S. H. Anastasiadis, K. Karatasos, G. Fytas, S. Pispas, M. Pitsikalis, N. Hadjichristidis, A. N. Semenov, J. E. L. Roovers, T. Pakula  
“Composition Fluctuation Effects on Dielectric Normal Mode Relaxation in Diblock Copolymers”  
Polymer Preprints 1994, 35 (1) 608.
180. A.K. Rizos, S. Pispas, N. Hadjichristidis  
“Modification of Solvent Relaxation Dynamics in Block Copolymer Solution”  
Polymer Preprints, 1994, 35 (1), 610.
181. S. Pispas, M. Pitsikalis, N. Hadjichristidis  
“Model end functionalized linear and 3-arm star polymers. Organization in solution and in bulk”  
Polymeric Materials: Science and Engineering 1997, 82, 213.
182. G. Fytas, R. Sigel, S. Pispas, D. Vlassopoulos, N. Hadjichristidis  
“Identification of Relaxation Processes in the Dynamic Structure Factor of Diblock Copolymers: Far from the Ordering Transition”  
Polymer Preprints 1999, 40 (2), 1024.
183. G. Floudas, S. Pispas, N. Hadjichristidis  
“Functionalized Block Copolymers: Synthesis, Structure and Dynamics”  
Polymer Preprints 1999, 40 (2), 1026.
184. M-K. Park, J. H. Youk, S. Pispas, N. Hadjichristidis, R. C. Advincula  
“In-situ Adsorption of Functionalized Poly(styrene-b-isoprene) with Zwitterionic Groups: Correlation with Quartz Crystal Microbalance (QCM) and Surface Plasmon Spectroscopy (SPS)”  
Polymer Preprints 2001, 42 (1), 283.
185. N. Hadjichristidis, H. Iatrou, S. Pispas, M. Pitsikalis  
“High Vacuum Techniques for the Synthesis of Macromolecules with Complex Architectures”  
Polymeric Materials: Science and Engineering 2001, 84, 831.
186. Q. Zhou, S. Wang, X. Fan, J. Mays, R. Advincula, G. Sakellariou, S. Pispas, N. Hadjichristidis  
“Nanocomposite Materials Prepared by Surface Initiated Anionic Polymerization From Si-Gel and Clay Nanoparticle Surfaces: Homopolymers and Block Copolymers”  
Polymer Preprints 2001, 42(2), 59.
187. X. Wu, S. Hong, T. P. Russell, S. P. Gido, S. Pispas, N. Hadjichristidis  
“Morphological studies of a Semicrystalline Diblock Copolymer”  
Polymer Preprints 2002, 43(2), 432.
188. M-K. Park, S. Pispas, N. Hadjichristidis, J. W. Mays, A. Advincula  
“Adsorption Phenomena of Polyelectrolytes, Amphiphilic Block and Star Copolymers on Surfaces as Investigated by the Quartz Crystal Microbalance Method”

Polymeric Materials: Science and Engineering 2003, 88, 480.

189. K. Gatsouli, S. Pispas and E. I. Kamitsos  
“Eu<sup>3+</sup>/block copolymer nanostructured hybrid materials”,  
Journal of Physics: Conference Series 2005, 10, 255.
190. G. Mountrichas, S. Pispas, E. I. Kamitsos, E. Xenogiannopoulou, V. Dracopoulos and S. Couris  
“Stable aqueous dispersions of C<sub>60</sub> fullerene by the use of a block copolymer”,  
Journal of Physics: Conference Series 2005, 10, 163.
191. N. Madamopoulos, S. Pispas, A. Tsigara, L. Athanasekos, G. Mountrichas, K. Gatsouli, N. Vainos, K. Kibasi  
“Polymer based photonic sensors for physicochemical monitoring”  
Proc. of SPIE 5993, 599308 (2005)
192. N. Madamopoulos, G. Siganakis, A. Tsigara, L. Athanasekos, S. Pispas, N. Vainos, E. Kaminska, A. Piotrowska, A. Perrone, C. Pristoscu, K. Kibasi  
“Diffractive optical elements for photonic gas sensors”  
Proc. of SPIE 6008, 60081C (2005)
193. M. Konstantaki, G. Papaioannou, S. Pissadakis, S. Pispas, N. Madamopoulos, N. Vainos  
“Optical fiber long-period grating humidity sensor utilizing PEO/CoCl<sub>2</sub> outcladding overlayers”  
Proc. of SPIE 5952, 1-7 (2005)
194. M. Osa, G. Mountrichas, K. Hong, S. Pispas, P. F. Britt, J. W. Mays  
“Light scattering study of well-defined flexible polyelectrolytes with two cationic sites per monomeric unit”  
Polymeric Materials Science & Engineering 2007, 97, 930.
195. A. Meristoudi, K. Iliopoulos, S. Pispas, N. Vainos, S. Couris,  
“Development and nonlinear optical properties of block copolymers micelles encapsulating metal nanoparticles”  
AIP Conf. Proc. 2010, 1288, 35.
196. M. Anyfantakis, B. Loppinet, G. Fytas, C. Mantzaridis, S. Pispas, H.-J. Butt  
“Polydiene solutions: A surprising versatile non linear optics material”  
AIP Conf. Proc. 2010, 1288, 123.
197. G. Chatzikyriakos, K. Iliopoulos, S. Couris, A. Meristoudi, S. Pispas  
“Nonlinear optical properties of Au and Ag nanoparticles embedded into hybrid-block copolymer micelles”  
AIP Conf. Proc. 2010, 1288, 174.
198. L. Athanasekos, D. Dimas, S. Katsikas, S. Pispas, N. Vainos, A. C. Boukouvalas, C. Riziotis  
“Laser microstructuring of polymer optical fibers for enhanced and autonomous sensor architectures”,

Procedia Engineering 2011, 25, 1593.

199. L. Athanasekos, S. Pispas, C. Riziotis  
“Novel block copolymers for multi-agent detection using polymer optical fibers”  
Proc. of SPIE 2012, 8426, 842615-1.

#### **D. Publications in Proceedings of National Conferences**

200. K. Gatsouli, S. Pispas, C. P. E. Varsamis, E. I. Kamitsos  
“Nanostructured hybrid solid electrolytes based on block copolymers”  
Proc. of 5<sup>th</sup> National Conference on Chemical Engineering, Thessaloniki, Greece,  
May 26-28 2006, p. 509-512.

#### **E. Chapters in Books and Encyclopedias**

201. N. Hadjichristidis, M. Pitsikalis, S. Pispas  
“Functionalized Polymers with Dimethylamine and Sulfozwitterionic End-Groups.  
Synthesis, Dilute Solution and Bulk Properties”  
“Functional Polymers: Modern Synthetic Methods and Novel Structures”, P. Patil,  
D. Schultz, B. Novak (Eds) ACS Symposium Series, Washington DC, Vol. 704,  
1998, Chapter 8, p. 96.
202. N. Hadjichristidis, S. Pispas, M. Pitsikalis, H. Iatrou. D. J. Lohse  
“Graft Copolymers”  
Encyclopedia of Polymer Science and Engineering, Wiley & Sons Inc., New  
York, 2002.
203. S. Pispas  
“Living Polymers”  
Encyclopedia of Polymer Science and Engineering, Wiley & Sons Inc., New York,  
2008.
204. G. Mountrichas, S. Pispas  
“Current Developments in Double Hydrophilic Block Copolymers”  
“Polymer Aging, Stabilizers and Amphiphilic Block Copolymers”, L. Segewicz and  
M. Petrowsky (Eds), Nova Science Publishers, Inc., 2010, Chapter 9.
205. A. Meristoudi, G. Mountrichas, S. Pispas  
“Metal nanoparticle synthesis in block copolymer self-assembled nanostructures”  
Encyclopedia of Nanoscience and Nanotechnology, H. S. Nalwa (Ed), American  
Scientific Publishers, 2010.
206. L. Athanasekos, S. Pispas, N. A. Vainos\*  
“Laser-induced soft matter organization and microstructuring of photonic materials”,  
“Laser growth and processing of photonic devices”, Woodhead Publishing Ltd, 2012,  
Chapter 7, p. 238-268.