Andrey V. Dobrynin

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Employment

- January 2013-present, Program Director, Condensed Matter and Materials Theory Program, Division of Materials Research, National Science Foundation, Arlington, VA. USA.
- August 2010-present, Professor, Department of Physics & Institute of Materials Science, University of Connecticut, Storrs, CT, USA.
- August 2005-August 2010, Associate Professor, Department of Physics & Institute of Materials Science, University of Connecticut, Storrs, CT, USA.
- August 2001-August 2005, Assistant Professor, Department of Physics & Institute of Materials Science, University of Connecticut, Storrs, CT, USA.
- October 1995-August 2001, Research Associate, Department of Chemistry, University of North Carolina at Chapel Hill, NC, USA.
- April 1995-October 1995, Research Associate, Groupe de Physico-Chimie Theorique, E.S.P.C.I., Paris, France.
- July 1993-March 1995, Visiting Scientist, Department of Physics and Astronomy, University of Rochester & Eastman Kodak Company, Rochester, NY, USA.
- 1991-1993, Senior Research Scientist, Department of Applied Mathematics, Institute of Mineralogy, Geochemistry and Crystal Chemistry of Rare Elements (IMGRE), Moscow, Russia.

Education

- November 1991, Ph.D. in Polymer Physics, Moscow Institute of Physics and Technology, Moscow, USSR. Thesis: *"Application of the weak crystallization theory to polymeric systems."*
- June 1987, MS in Chemical Physics, Department of Molecular and Chemical Physics, Moscow Institute of Physics and Technology, Moscow, USSR.

Honors and Awards

- 2012 Director's Award for Faculty Excellence in Teaching and Research, Polymer Program, Institute of Materials Science, University of Connecticut.
- 2012 Saint Gobain Fellowship, E.S.P.C.I., Paris, France.
- 2009 Visiting Professor, Department of Physics, Universita di Roma "La Sapienza", Rome, Italy.
- 2006 Fellow of the American Physical Society.
- 2006 Elected to the Connecticut Academy of Science and Engineering.
- 2004 Director's Award for Faculty Excellence in Teaching and Research, Polymer Program, Institute of Materials Science, University of Connecticut.
- 1988-The first prize in competition of the young scientists awarded by the Institute of Chemical Physics of the USSR Academy of Sciences for the work *"Two-zone potentials and spinodal decomposition."*
- 1987-Moscow Institute of Physics and Technology. Graduated with Honors.

Memberships

- 2003 - The American Chemical Society, member
- 1994 - The American Physical Society, member.

- 1997 - Society of Rheology, member.

Professional Service

- 2010-2012, Chair, Gordon Research Conference: Colloidal, Macromolecular and Polyelectrolyte Solutions.
- 2012 APS-DPOLY Technical Program Chair.
- 2010-2012, APS-DPOLY Technical Program Committee.
- 2008-2010, Vice Chair, Gordon Research Conference: Colloidal, Macromolecular and Polyelectrolyte Solutions.
- September 2007, Chairman and Organizer of 32nd New England Conference on Complex Fluids, University of Connecticut, Storrs, CT.
- March 2006, Co-chairman and Organizer of PMSE Symposium on "Complex Fluids in Confined Spaces", ACS Meeting, Atlanta, GA.
- June 2005, Chairman and Organizer of 23rd New England Conference on Complex Fluids, University of Connecticut, Storrs, CT.
- 2003-2004 Guest Editor, *Journal of Polymer Science. Part B: Polymer Physics.*
- Manuscript Referee for:
  -Physical Review Letters
  -Physical Review E
  -Physica A
  -Macromolecules
  -Langmuir
  -Nature
  -European Physical Journal E
  -Europhysics Letters
  -Journal of Chemical Physics
  -Journal of Physical Chemistry
  -Journal of Polymer Science
  -Science
- Proposal Reviewer for:
  -Petroleum Research Fund (ACS)
  -National Research Council, Canada
  -Netherlands Organization for Scientific Research
  -National Science Foundation, USA
  -Israel Science Foundation

Professional Service at UConn

2010-present. Institute of Materials Science, Advisory Board Member.
2002-present. Institute of Materials Science and Department of Physics, Search Committee Member.

Students

Graduate

Andrew Oyer, (Ph.D. Institute of Materials Science), *Graphene Based Polymeric Nanomaterials* (co-advised with D. Adamson).
Newton Wahome, (Ph.D. Department of Molecular and Cell Biology), *Application of Nanoparticles for Vaccine Development* (Graduated July 2012, co-advised with P. Brukhard).
Fangxiao Guan (Ph.D. Institute of Materials Science), *Experimental and computational studies of nanostructured dielectrics for high power capacitors.*(Graduated August 2010, co-advised with L. Zhu)
Jan-Michael Carrillo (Ph.D. Institute of Materials Science), *Computer simulations of polymeric systems.*(Graduated December 2009).
Alexander Gubarev (Fulbright Scholar, Polymer Program, Institute of Materials Science, UConn, USA & Department of Physics, St. Petersburg State University, St. Petersburg, Russia), *Rigidity of charged polymers.*(Graduated May 2010)
Sang-Yong Ju (Ph. D. Department of Chemistry) *Flavin-derived self-organization and chirality separation of single-walled carbon nanotubes.* (Graduated November 2008, co-advised with F. Papadimitrakopouls).

Pritesh Patel, (Ph.D. Department of Chemical Engineering, Case Western Reserve University), *Polyelectrolyte multilayers: Simulations, experiments, and applications in biomineralization.* (Graduated October 2007, co-advised with P. T. Mather).
Sang Nyon (Ph.D. Institute of Materials Science), *Separation of semiconducting from conducting single wall carbon nanotubes.* (Graduated June 2007, co-advised with F. Papadimitrakopouls).
Zhengtang Luo, (Ph.D. Institute of Materials Science), *Diameter selective extraction of single walled carbon nanotubes*. (Graduated July 2007, co-advised with F. Papadimitrakopouls).
Atul Saluja, (Ph.D. School of Pharmacy), *Characterization of protein-protein interactions for optimization and physical stability of high protein concentration solutions.* (Graduated 2007, co-advised with D. S. Kalonia).
JunHwan Jeon (Ph.D. Institute of Materials Science), *Molecular modeling of polymeric and biological systems*. (Graduated December 2005).
Venkateswarlu Panchagnula (Ph.D. Department Chemistry), *Theory and molecular simulations of layer-by-layer deposition of polyelectrolyte and proteins at charged substrates*.(Graduated March 2005).
Christophe J. Lefaux, (Ph.D. Institute of Materials Science), *Electrostatic self-assembly in microfluidic channels.* (Graduated May 2004, co-advised with P. T. Mather).

Undergraduate
Daniel Russano (B.S. Department of Physics, 2011 Ketzeisten Prize for outstanding undergraduate research in physics), *Friction between Bottle-Brush Polyelectrolyte Layers*: *Molecular Dynamics Simulations.*
Daniel Sandberg (B.S. Department of Chemistry, the Best Honor Thesis in Chemistry in 2007), *Polyelectrolyte brushes*. (Graduated May 2007).
Kristen Basiaga (Department of Physics), *Physical properties of polymeric adhesives.*(Graduated May 2008).

Bibliography Summary (h index:32, #citations 4292)
Google Scholar: http://scholar.google.com/citations?user=UPjzVhoAAAAJ
112 scientific publications.
135 research presentations at conferences, universities and research laboratories.

List of Publications

A. Book Chapters

A.V. Dobrynin "Polyelectrolyte Solutions and Gels" in Oxford Handbook of Soft Condensed Matter, Oxford University Press, scheduled for print in 2013.
A. V. Dobrynin "Solutions of Charged Polymers" in Comprehensive Polymer Science, 2nd ed. Elsevier, 2012.
A. V. Dobrynin "Molecular Simulations of Charged Polymers", *Chapter 8* in "Simulation Methods for Polymers" Eds., M. Kotelyanskii, D. Theodorou, Marcel Dekker, 2004, New York.

B. Refereed Journals

1. H. K. Murnen, A. M. Rosales, A. V. Dobrynin, R. N. Zuckermann, R, A, Segalman, Persistence Length of Polyelectrolytes with Precisely Located Charges, *Soft Matter*, **9** (2013), 90-98.
2. J.-M. Y. Carrillo, A. V. Dobrynin, Dynamics of Nanoparticle Adhesion, *J. Chem. Phys*., **137** (2012), 214902.
3. J.-M. Y. Carrillo, M. W. Brown, A. V. Dobrynin, Explicit Solvent Simulations of Friction between Brush Layers of Charged and Neutral Bottle-Brush Macromolecules, *Macromolecules*, **45** (2012), 8880-8891.

4. J.-M. Y. Carrillo, A. V. Dobrynin, Contact Mechanics of Nanoparticles, *Langmuir,* **28** (2012), 10881-10890.
5. A. J. Oyer, J.-M. Y. Carrillo, C. H. Hire, H. C. Schniepp, A. D. Asandei, A. V. Dobrynin, D. H. Adamson, Stabilization of Graphene Sheets by a Structured Benzene/Hexafluorobenzene Mixed Solvent, *JACS*, **134** (2012), 5018-5021.
6. J.-M. Y. Carrillo, A. V. Dobrynin, Layer-by-Layer Assembly of Polyelectrolyte Chains and Nanoparticles on Nanoporous Substrates: Molecular Dynamics Simulations, *Langmuir*, **28** (2012), 1531-1538.
7. J.-M. Y. Carrillo, D. Russano, A. V. Dobrynin, Friction between Brush Layers of Charged and Neutral Bottle-Brush Macromolecules. Molecular Dynamics Simulations. *Langmuir,* **27** (2011), 14599-14608.
8. D. Russano, J.-M. Y. Carrillo, A. V. Dobrynin, Interaction between Brush Layers of Bottle-Brush Polyelectrolytes: Molecular Dynamics Simulations. *Langmuir,* **27** (2011), 11044-11051.
9. J.-M. Y. Carrillo, A. V. Dobrynin, Polyelectrolyte in Salt Solutions: Molecular Dynamics Simulations, *Macromolecules*, **44** (2011), 5798-5816.
10. J.-M., Y. Carrillo, A. V. Dobrynin, "Layer-by-Layer Assembly of Charged Nanoparticles on Porous Substrates. Molecular Dynamics Simulations", ACS Nano, **5** (2011), 3010-3019.
11. J.-M. Carrillo, S.S. Sheiko, A.V. Dobrynin, "Molecular Dynamics Simulations of Bottlebrush Macromolecules in Two Dimensional Polymeric Melts Under Flow Conditions" *Soft Matter*, **7**(2011) 2805-2811
12. A. V. Dobrynin, J.-M., Y. Carrillo, "Universality in Nonlinear Elasticity of Biological and Polymeric Networks and Gels ", Macromolecules, **44** (2011) 140-146.
13. J.-M. Y. Carrillo, A. V. Dobrynin, "Molecular Dynamics Simulations of Grafted Layers of Bottle-Brush Polyelectrolytes", *Langmuir*, **26** (2010) 18374-18381.
14. A.V. Dobrynin, J.-M. Y. Carrillo, M. Rubinstein, "Chains Are More Flexible under Tension", Macromolecules, **43** (2010) 9181-9190.
15. M. J. Barrett, F. C. Sun, A. Nese, K. Matyjaszewski, J.-M. Y. Carrillo, A. V. Dobrynin, and S. S. Sheiko, "Size Separation of Macromolecules during Spreading", *Langmuir*, **26** (2010) 15339-15344.
16. J.-M. Y. Carrillo, E. Raphael, A.V. Dobrynin, "Adhesion of Nanoparticles" *Langmuir*, **26** (2010) 12973-12979.
17. J.-M. Y. Carrillo, A. V. Dobrynin, "Detailed Molecular Dynamics Simulations of a Model NaPSS in Water", *J. Phys. Chem. B.*, **114** (2010) 9391-9399.
18. J.-M. Y. Carrillo, A. V. Dobrynin, "Effect of the Electrostatic Interactions on Stretching of Semiflexible and Biological Polyelectrolytes", *Macromolecules*, **43** (2010) 2589-2604.
19. Y. Ner, D. Navarathne, D.M. Niedzwiedzki, J.G. Grote, A. V. Dobrynin, H.A. Frank, G.A. Sotzing, "Stabilization of fluorophore in DNA thin films" *Applied Physics Letters*, **95**, 2009 263701.
20. A. V. Dobrynin, J.-M. Y. Carrillo "Swelling of Biological and Semiflexible Polyelectrolytes", *Journal of Physics: Condensed Matter*, **37** (2009) 424112.
21. J.-M. Y. Carrillo, A. V. Dobrynin, "Morphologies of Planar Polyelectrolyte Brushes in a Poor Solvent. Molecular Dynamics Simulations and Scaling Analysis" *Langmuir,* **25** (2009) 13158-13168.
22. J.-M. Y. Carrillo, A. V. Dobrynin, "Molecular Dynamics Simulations of the Nanoimprint Lithography", *Langmuir*, **25** (2009) 13244-13249.
23. A. Gubarev, J.-M. Y. Carrillo, A. V. Dobrynin, "Scale-Dependent Electrostatic Stiffening in Biopolymers", *Macromolecules*, **42** (2009) 5851-5860.
24. A. V. Dobrynin, "Theory and Simulations of Charged Polymers: From Solution Properties to Polymeric Nanomaterials", *Curr. Opin. Colloid&Interface Sci.* **13** (2008), 376-388 **(Review Article).**
25. S.Y. Yu-Su, D.R. Thomas, J. E. Alford, I. LaRue, M. Pitsicalis, N. Hajichristidis, J. M. DeSimone, A. V. Dobrynin, S. S. Sheiko, Molding Block Copolymer Micelles: A Framework for Molding of Discrete Objects on Surfaces", *Langmuir*, **24** (2008) 12671-12679.
26. R. A. Weiss, X. Zhai, A. V. Dobrynin, " Nanoparticle-Textured Surfaces from Spin Coating", *Langmuir*, **24** (2008) 5218-5220.

27. D.J. Sandberg, J.-M. Y. Carrillo, A.V. Dobrynin, "Molecular Dynamics Simulations of Polyelectrolyte Brushes: From Single Chains to Bundles of Chains", *Langmuir* **23** (2007) 12716-12728.
28. P. Patel, A.V. Dobrynin, P. T. Mather, "Combined Effect of Spin Speed and Ionic Strength on Polyelectrolyte Spin Assembly", *Langmuir* **23** (2007) 12589-12597.
29. F. C. Sun *et al*, "A Flory Theorem for Structurally Asymmetric Mixtures", *Phys. Rev. Lett.*, **99** (2007) 137801-1-4.
30. Q. Liao, J.-M. Carrillo, A. V. Dobrynin, M. Rubinstein "Rouse Dynamics of Polyelectrolyte Solutions. Molecular Dynamics Study", *Macromolecules* **40** (2007) 7694-7706.
31. J.-M. Carrillo, J. Jeon, A.V. Dobrynin, "A Model of Polymeric Nanopropulsion Engine" *Macromolecules* **40** (2007) 5171-5175.
32. J. Jeon, A.V. Dobrynin , " Necklace Globule and Counterion Condensation" *Macromolecules* **40** (2007) 7671-7679.
33. J.-M. Carrillo, A.V. Dobrynin, "Molecular dynamics simulations of polyelectrolyte adsorption" *Langmuir*, **23** (2007) 2472-2482.
34. A. V. Dobrynin "Effect of Counterion Condensation on Rigidity of Semiflexible Polyelectrolytes" *Macromolecules*, **39** (2006) 9519-9527.
35. J. Jeon, A. V. Dobrynin,"Molecular Dynamics Simulations of Polyampholyte-Polyelectrolyte Complexes. Effect of Solvent Quality and Salt Concentration", *Journal of Physical Chemistry B.* **110** (2006) 24652-24665.
36. P. Patel, J. Jeon, P. T. Mather, A.V. Dobrynin, "Molecular Dynamics Simulations of Multilayer Polyelectrolyte Films: Effects of Electrostatic and Sort-Range Interactions", *Langmuir*, **22** (2006) 9994-10002.
37. J. Jeon, V. Panchagnula, J. Pan, A. V. Dobrynin, "Molecular Dynamics Simulations of Multilayer Films of Polyelectrolytes and Nanoparticles", *Langmuir*, **22** (2006) 4629-4637.
38. Q. Liao, A. V. Dobrynin, M. Rubinstein, "Counterion-Correlation-Induced Attraction and Necklace Formation in Polyelectrolyte Solutions: Theory and Simulations" *Macromolecules* **39** (2006), p.p. 1920-1938.
39. A. V. Dobrynin "Electrostatic Persistence Length of Semiflexible and Flexible Polyelectrolytes" *Macromolecules*, **38** (2005) p.p. 9304-9314.
40. N. P. Shashurina, E. B. Zhulina, A. V. Dobrynin, and M. Rubinstein " Scaling Theory of Diblock Polyampholyte Solutions" *Macromolecules*, **38** (2005) p.p. 8870-8881.
41. J. Jeon, A. V. Dobrynin, "Polymer Confinement and Bacterial Gliding Motility"*European Physical Journal E*, **17** (2005) p.p. 361-372.
42. H. Xu, *et al*, "Molecular Visualization of Conformation-Triggered Flow Instability", *Phys. Rev. Lett.*, **94** (2005) #237801, p.p. 1-4.
43. P. Patel, J. Jeon, P. T. Mather, A.V. Dobrynin, "Molecular Dynamics Simulations of Electrostatic Layer-by-Layer Assembly of Polyelectrolytes at Charged Surfaces. Effects of Chain Degree of Polymerization and Fraction of Charged Monomers", *Langmuir*, **21** (2005) p.p. 6113-6122.
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45. A. V. Dobrynin, M. Rubinstein, "Theory of Polyelectrolytes in Solutions and at Surfaces", Progress in Polymer Science, **30** (2005) p.p. 1049-1118 **(Review Article).**
46. V. Panchagnula, J. Jeon, J. Rusling, A. V. Dobrynin, "Molecular Dynamics Simulations of Polyelectrolyte Multilayering on a Charged Particle", *Langmuir*, **21** (2005) p.p. 1118-1125.
47. C. J. Lefaux, J. A. Zimberlin, A. V. Dobrynin, P. T. Mather, "Polyelectrolyte Spin-Assembly: Influence of Ionic Strength on the Growth of Multilayered Thin Films", *Journal of Polymer Science B, Polymer Physics*, **42** (2004) p.p. 3654-3666.
48. V. Panchagnula, J. Jeon, A. V. Dobrynin, "Molecular Dynamics Simulations of Electrostatic Layer-by-Layer Polyelectrolyte Self-Assembly", *Phys. Rev. Lett.* **93** (2004) #037801p.p.1-4.

49. A. V. Dobrynin, R. H. Colby, M. Rubinstein, "Polyampholytes", *Journal of Polymer Science B, Polymer Physics,* **42** (2004) p.p.3513-3538 **(Review article)**
50. A. V. Dobrynin, "Phase Diagram of Solutions of Associative Polymers", *Macromolecules* **37** (2004), p.p.3881-3893.
51. J. Jeon, A. V. Dobrynin, "Monte Carlo Simulations of Polyampholyte-Polyelectrolyte Complexes. Effect of Charge Sequence and Strength of Electrostatic Interactions" *Phys. Rev. E* **67** (2003) art#061803 p.p.1-15.
52. R. T. Tucker, C. C. Han, A. V. Dobrynin and R. A. Weiss, "Small Angle Neutron Scattering Analysis of Blends with Very Strong Intermolecular Interactions: Polyamide/Ionomer Blends" *Macromolecules* **36** (2003) p.p. 4404-4410.
53. Q. Liao, A. V. Dobrynin, M. Rubinstein, "Molecular Dynamics Simulations of Polyelectrolyte Solutions. Osmotic Coefficient and Counterion Condensation" *Macromolecules* **36** (2003) p.p. 3399-3410.
54. Q. Liao, A. V. Dobrynin, M. Rubinstein, "Molecular Dynamics Simulations of Polyelectrolyte Solutions. Nonuniform Stretching of Chains and Scaling Behavior", *Macromolecules* **36** (2003) p.p. 3386-3398.
55. A. V. Dobrynin, M. Rubinstein "Effect of Short-Range Interactions on Polyelectrolyte Adsorption at Charged Surfaces" *J. Phys. Chem. B,* 107 (2003) p.p.8260-8269.
56. I. M. Withers, A. V. Dobrynin, M. L. Berkowitz, M. Rubinstein, "Monte Carlo Simulations of Homopolymer Chains. I. Second Virial Coefficient" *J. Chem. Phys.* **118** (2003) p.p. 4721-4732.
57. A. V. Dobrynin, M. Rubinstein "Adsorption of Hydrophobic Polyelectrolytes at Oppositely Charged Surfaces" *Macromolecules* **35** (2002) p.p. 2754-2768.
58. E. B. Zhulina, A. V. Dobrynin, M. Rubinstein "Adsorption Isotherms of Polyampholytes at Charged Spherical Particles" *J. Phys. Chem. B* **105** (2001) p.p. 8917-8930.
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61. A. V. Dobrynin, A. Deshkovski, M. Rubinstein "Adsorption of Polyelectrolytes at an Oppositely Charged Surface" *Macromolecules,* **34** (2001) p.p. 3421-3436.
62. A. V. Dobrynin, E. B. Zhulina, M. Rubinstein "Structure of Adsorbed Polyampholyte Layers at Charged Objects" *Macromolecules,* **34** (2001) p.p. 627-639.
63. A. V. Dobrynin "Multi Chain Polyampholyte Adsorption at a Charged Spherical Particle" *Physical Rev. E* (2001) art. no. 051802.
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65. A. V. Dobrynin, M. Rubinstein "Hydrophobically Modified Polyelectrolytes in Dilute Salt-free Solutions" *Macromolecules,* **33** (2000) p.p. 8097-8105.
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68. G. M. Eihenbaum, P. F. Kiser, A. V. Dobrynin, S. A. Simon, D. Needham "Investigation of the Swelling Response and Loading of Ionic Microgels with Drags and Proteins: The Dependence on Cross-Link Density" *Macromolecules,* **32** (1999) p.p. 4867-4878.
69. M. Rubinstein, A. V. Dobrynin "Associations Leading to Formation of Networks and Gels" *Cur. Opin. Coll. & Interface Sci.* **4** (1999) p.p. 83-87. **(Review article)**
70. A. V. Dobrynin, M. Rubinstein "Hydrophobic Polyelectrolytes" *Macromolecules,* **32** (1999) p.p. 915-922.
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72. E. Buhler, A. V. Dobrynin, J. M. DeSimone, M. Rubinstein "Light-Scattering Study of Diblock Copolymers in Supercritical Carbon Dioxide: *CO2* Density-Induced Micellization Transition" *Macromolecules* **31** (1998) p.p. 7347-7355.
73. D. Long, A. V. Dobrynin, A. Ajdary, M. Rubinstein "Electrophoresis of Polyampholytes" *J. Chem. Phys.* **108** (1998) p.p. 1234-1244.
74. A. V. Dobrynin, M. Rubinstein, J.-F. Joanny "Adsorption of Polyampholytes on a Charged Surface" *Macromolecules*, **30** (1997) p.p. 4332-4341.
75. A. I. Cooper. J. D. Londono, G. Wignall, J. B. McClain, E. T. Samulskii, J. S. Lin, A. Dobrynin, M. Rubinstein, A. L. C. Burke, J. M. Frechet, J. DeSimone "Extraction of a Hydrophobic Compound from Water into Liquid CO_2 Using the Dendritic Surfactants" *Nature*, **389** (1997) p.p. 368-370.
76. A. V. Dobrynin, S. Stepanow, T. A. Vilgis "Copolymer Melts in Disordered Media" *in Complex Behavior in Glassy Systems*, Eds. J. M. Rubi and C. Perez-Vicente, Lecture Notes in Physics, **492**, p.p. 393-403, Springer 1997.
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78. M. Rubinstein, A. V. Dobrynin "Solutions of Associative Polymers" *Modern Trends in Polymer Science,* **5** (1997) p.p. 181-187. **(Review article)**
79. A. V. Dobrynin "Random Copolymers in Random Media" *Phys. Rev.* **E56** (1997) p.p.750-759.
80. A. V. Dobrynin, L. Leibler "Phase Diagram of Polydisperse Multiblock Copolymers" *Macromolecules*, **30** (1997) p.p.4756-4765.
81. A. V. Dobrynin, L. Leibler "Fluctuation Theory of Random Copolymers near the Lifshitz Point" *Europhys. Lett.* **36** (1996) p.p. 283-287.
82. S. Stepanow, A. V. Dobrynin, T. A. Vilgis, K. Binder "Copolymers in Random Media" *J. Phys. I (France)* **6** (1996) p.p.837-857
83. A. V. Dobrynin, M. Rubinstein, S. P. Obukhov "Cascade of Transitions in Polyelectrolyte Chain in Poor Solvents" *Macromolecules*, **29** (1996) p.p.2974-2979.
84. M. Rubinstein, R. Colby, A. V. Dobrynin, J-F Joanny "Elastic Modulus and Equilibrium Swelling of Polyelectrolyte Gels" *Macromolecules*, **29** (1996) p.p. 398-406.
85. A. V. Dobrynin "Fluctuation Theory of Charged AB-Random Copolymers" *J. Phys. II (France)*, **5** (1995) p.p. 1241-1253.
86. A. V. Dobrynin "Glass Transition versus Microphase Separation: Phenomenological Replica Field Theory for AB Copolymer Systems" *J. Phys. I (France),* **5** (1995) p.p.657-669.
87. A. V. Dobrynin, M. Rubinstein "Flory Theory of a Polyampholyte Chain" *J. Phys. II (France),* **5** (1995) p.p.677-695.
88. A. V. Dobrynin, I. Ya. Erukhimovich "Fluctuation Theory of Random Copolymers" *J. Phys. I (France),* **5** (1995) p.p. 365-377.
89. A. V. Dobrynin, M. Rubinstein, R. Colby "Scaling Theory of Polyelectrolyte Solutions" *Macromolecules*, **28** (1995) p.p. 1859-1871.
90. M. Rubinstein, R. Colby, A. V. Dobrynin "Dynamics of Semidilute Polyelectrolyte Solutions" *Phys. Rev. Lett.* **73** (1994) p.p. 2776-2780.
91. I. Ya. Erukhimovich, A. V. Dobrynin "On the Theory of Weak Crystallization in Polydisperse Molten Copolymers" *Macromol. Symp.* **81** (1994) p.p. 253-315.
92. A. V. Dobrynin, I. Ya. Erukhimovich "Computer-Aided Comparative Investigation of Architecture Influence on Block Copolymer Phase Diagrams" *Macromolecules*, **26** (1993) p.p.276-281.
93. A. V. Dobrynin, I. Ya. Erukhimovich "Phase Diagram of Disordered Systems Described by a General Weak-Crystallization Hamiltonian" *Zh. Eksp. Teor. Fiz.* **104** (1993) p.p. 2838-2852. (*Sov. Phys. JETP* **77** (1993) p.p.307-314).
94. I. Ya. Erukhimovich, A. V. Dobrynin "Conditions for the Existence of Glass Phase in Disordered Systems Described by a Weak-Crystallization Hamiltonian of General Type" *Pis'ma Zh. Eksp. Teor. Fiz.* **57** (1993) p.p.116-120 (*Sov. Phys. JETP Lett.* **57** (1993) p.p. 125-129).

95. I. Ya. Erukhimovich, A. V. Dobrynin "Conformations of Molten Diblock Copolymer Near the Point of Microphase Separation Transition" *Macromolecules* **25** (1992) p.p. 4411-4415.
96. A. V. Dobrynin, I. Ya. Erukhimovich "Theory of Weak-Crystallization and Phase Equilibrium of Polyelectrolyte Melts and Solutions" *Zh. Eksp. Teor. Fiz*. **99** (1991) p.p. 1344-1359. (*Sov. Phys. JETP* **72** (1991) p.p.751-759).
97. A. V. Dobrynin, I. Ya. Erukhimovich "Theory of Weak-Crystallization of Two-component Melts of Heteropolymers of Complicated Chemical Structure: Fluctuation Effects" *Vysokomol. Soedin*. **33A** (1991) p.p. 1100-1114. (*Polymer Science USSR* **33** (1991) p.p. 1012-1027).
98. A. V. Dobrynin, I. Ya. Erukhimovich "Fluctuation Effects in the Theory of Weak Supercrystallization in Block Copolymer Systems of Complicated Chemical Structure" *J. Phys. II (France)* **1**(1991) p.p. 1387-1404.
99. A. V. Dobrynin, I. Ya. Erukhimovich "Fluctuation Theory of Weak Crystallization in Disordered Heteropolymer Systems" *Pis'ma Zh. Eksp. Teor. Fiz*. **53** (1991) p.p.545-548 (*Sov. Phys. JETP Lett*. **53** (1991) p.p. 570-572).
100. A. V. Dobrynin, I. Ya. Erukhimovich "Influence of Chemical Structure of Two-component Melts of Heteropolymers on the Formation of Domain Structure. Phase Diagrams of Asymmetric Triblock and Graft Copolymers" *Vysokomol. Soedin*. **32B** (1990) p.p. 663-667. (Russian)
101. A. V. Dobrynin, I. Ya. Erukhimovich "Influence of Chemical Structure of Two-component Melts of Heteropolymers on the Formation of Domain Structure. Phase Diagrams of Polyblock and Polygraft Copolymers" *Vysokomol. Soedin*. **32B** (1990) p.p. 743-745. (Russian)
102. A. V. Dobrynin, I. Ya. Erukhimovich "Influence of Chemical Structure of Two-component Melts of Heteropolymers on the Formation of Domain Structure. Phase Diagrams of Star Copolymers" *Vysokomol. Soedin*. **32B** (1990) p.p. 852-857. (Russian)
103. I. Ya. Erukhimovich, B. S. Kogan, A. V. Dobrynin "The Conditions of the Existence and Geometry of Fluid Films on Triple Edges of Grains in Rocks" *in Geomathematical models of Geochemistry*, Eds. E. K. Burenkov and B. S. Kogan, Moscow, IMGRE, 1990.
104. A. B. Givental, A.V. Dobrynin "Two-zone Potentials and Spinodal Decomposition." *Advances in Mathematical Science (USSR)* **3** (1988) p.p.243-244. (Russian)

C. Conference Proceedings

105. P. Patel, J.-H. Jeon, A. V. Dobrynin, P. T. Mather "Simulations of Layer-by-Layer Assembly of Polyelectrolyte Multilayers," *ANTEC 2005 Proceedings of the 64th Annual Technical Conference & Exhibition*, Boston, MA, May 1-5, Society of Plastics Engineers, pp. 3010-3014.
106. A. V. Dobrynin "Molecular Dynamics Simulations of Layer-by-Layer Assembly of Polyelectrolytes at Charged Surfaces", *Proceedings of the American Chemical Society, Division of Polymeric Materials: Science and Engineering*, **93** (2005) p.p. 36-37.
107. M. Rubinstein, A. N. Semenov, A. V. Dobrynin "Solutions of Associating Polymers" *Proceedings of the American Chemical Society, Division of Polymeric Materials: Science and Engineering*, **81** (1999), p.p. 488-489.
108. M. Rubinstein, A. V. Dobrynin, "Hydrophobically Modified Polyelectrolytes" *Proceedings of the American Chemical Society, Division of Polymeric Materials: Science and Engineering*, **81** (1999), p.p. 206-207.
109. J. M. DeSimone, D. Betts, T. Johnston, J. M. McClain, S. L. Wells, A. Dobrynin, M. Rubinstein, D. Londono, G. Wignal, R. Triolo "Molecular Engineered Surfactants for CO_2" *Polymer Preprints*, **40** (1999) p.p. 435-436.
110. S. L. Wells, E. Buhler, A. Dobrynin, J. M. DeSimone, M. Rubinstein "A Light Scattering Study of Surfactants in CO_2" *Polymer Preprints*, **40** (1999) p.p. 472-473.

Invited Lectures and Seminars

1. November 2012, University of Maryland, College Park, MD, "Electrostatic Interactions in Polymers and Soft Matter".
2. October 2012, Brandeis University, Boston, MA, "Effect of Electrostatic Interactions on Friction and Lubrication".
3. September 2012, DMR, NSF, Arlington, VA, "Computer Simulations of Polymers and Soft-Matter."
4. May 2012, Rhodia, Lyon, France, "Electrostatic Interactions in Polymers and Soft Matter".
5. May 2012, Imperial College, London, UK, "Electrostatic Interactions in Polymers and Soft Matter".
6. May 2012, Vrije University, Amsterdam, Netherlands, "Nonlinear Elasticity: From Single Chain to Network and Gels".
7. May 2012, ESPCI, Paris, France, "Nonlinear Elasticity: From Single Chain to Network and Gels".
8. May 2012, ESPCI, Paris, France, "Effect of Electrostatic Interactions on Friction and Lubrication".
9. March 2012, UMASS, Amherst, MA, "Electrostatic Interactions in Polymers and Soft Matter".
10. March 2012, SUNY, Stony Brook, NY, "Electrostatic Interactions in Polymers and Soft Matter".
11. August 2011, Semi Annual ACS Meeting, Denver, CO, "Computer Simulations of Layer-by-Layer Assembly on Porous Substrates".
12. July 2011, University of North Carolina, Chapel Hill, NC, "Adhesion of Nanoparticles and Nanomolding".
13. April 2011, University of Connecticut, Storrs, CT, CSE/UPE seminar series, "Computer Simulations of Polymeric and Biological Systems".
14. March 2011, Semi Annual ACS Meeting, Anaheim, CA, "Adhesion of Nanoparticles".
15. March 2011, University of Akron, Akron, OH, "Charged Polymers".
16. March 2011, University of Akron, Akron, OH, "Computer Simulations of Polymeric and Biological Systems".
17. November 2010, NIST, Washington, DC, "Computer Simulations of Polymers and Soft Matter".
18. June 2010, NERM 2010, Potsdam, NY, "Polyelectrolyte Brushes: From Single Chains to Bundles of Chains".
19. May 2010, Brookhaven National Laboratory, NSLS, "Polyelectrolyte Brushes: From Single Chains to Bundles of Chains".
20. January 2010, Department of Polymer Engineering, University of Akron, Akron, OH, "Conformations of Molecular Brushed. From Flory Theorem to Fingering Instability."
21. November 2009, Department of Aerospace and Mechanical Engineering, University of Virginia, VA, "Molecular Bottle-Brushes".
22. July 2009, Universita di Roma "La Sapienza", Rome, Italy "Polymeric Propulsion and Bacterial Gliding Motility".
23. July 2009, Universita di Roma II, Rome, Italy, "Molecular Bottle Brushes".
24. June 2009, Institute Curie, Paris, France, "Polymeric Propulsion and Bacterial Gliding Motility".
25. June 2009, ESPCI, Paris, France, "Conformations of Molecular Brushed. From Flory Theorem to Fingering Instability."
26. May 2009, University of North Carolina, Chapel Hill, NC, "Molecular Dynamics Simulations of Nanomolding".
27. March 2009, Annual APS Meeting, Pittsburgh PA, "Electrostatic Rigidity of Biological Polyelectrolytes".
28. March 2009, 38th New England Complex Fluid Workshop, Yale University, New Haven, CT, "Conformations of Molecular Brushed. From Flory Theorem to Fingering Instability."

29. April 2008, Pennsylvania State University, College Park, PA, “Computer Simulations of Layer-by-Layer Assembly and Polyelectrolyte Brushes in Poor Solvent Conditions for the Polymer Backbone”.
30. March 2008, University of North Carolina, Chapel Hill, NC, “Polymeric Nanopropulsion Engine and Bacterial Gliding Motility”.
31. February 2008, Dow Chemical, Midland, MI, “Charged Polymers at Surfaces and Interfaces”.
32. February 2008, GRC, Ventura CA, “Comments on Electrostatic Persistence Length”.
33. August 2007, 234 ACS National Meeting, Boston, MA, “Molecular Dynamics Simulations of Protein-Polyelectrolyte Complexes”.
34. March 2007, Annual APS Meeting, Denver, CO, “Molecular Dynamics Simulations of Layer-by-Layer Assembly of Charged Macromolecules”.
35. October 2006, Department of Aerospace and Mechanical Engineering, University of Virginia, VA, “ Polymer Confinement and Bacterial Gliding Motility”.
36. March 2006, 231 ACS National Meeting, Atlanta, GA, “ Polymer Confinement and Bacterial Gliding Motility”.
37. March 2006, 231 ACS National Meeting, Atlanta, GA, “A New Necklace Model of Hydrophobic Polyelectrolytes”.
38. November 2005, Department of Applied Mathematics, University of Akron, OH, “Computer Simulations of Layer-by-layer Assembly of Charged Macromolecules”.
39. August 2005, 230 ACS National Meeting, Washington DC, “Molecular Dynamics Simulations of Layer-by-Layer Assembly of Polyelectrolytes at Charged Surfaces”.
40. March 2005, Annual APS Meeting, Los Angeles, CA, ”Theories of Polyelectrolyte Solutions”, Short Course, DPOLY.
41. September 2004, Department of Chemistry, IUPU, IN, “Electrostatic Interactions in Complex Fluids, Polymeric Nanomaterials and Biological Systems”.
42. April 2004, Electrostatic Interactions and Biophysics, William I Fine Theoretical Physics Institute, University of Minnesota, MN, “Theory and Molecular Simulations of Layer-by-Layer Polyelectrolyte Assembly”.
43. February 2004, Department of Chemical Engineering, Rice University, Houston, TX, ”Polymers from Nanomaterials to Bacteria Motility”.
44. February 2004, SAMSI workshop on Complex Fluids, Chapel Hill, NC, “Molecular Simulations of Layer-by-Layer Polyelectrolyte Assembly”.
45. September 2003, Annual ACS Meeting, New York City, NY, “Computer Simulations of Polyelectrolyte Solutions”.
46. July 2003, Department of Physics, University of Connecticut, Storrs, CT, ”Electrostatic Interactions in Complex Fluids, Polymeric Nanomaterials and Biological Systems”.
47. June 2003, Department of Chemical Engineering, Rice University, Houston, TX, ”Electrostatic Interactions in Complex Fluids, Polymeric Nanomaterials and Biological Systems”.
48. June 2003, Department of Chemical Engineering, Rice University, Houston, TX, “Hydrophobic Polyelectrolytes ”.
49. February 2003, Department of Materials Science, Northwestern University, Chicago, IL, ”Electrostatic Interactions in Polymeric Systems”.
50. September 2002, 12th New England Complex Fluid Workshop, Brandeis University, Boston, MA, “Hydrophobic Polyelectrolytes - The Story So Far…”.
51. August 2002, Department of Polymer Science and Engineering, University of Massachusetts, Amherst, MA, “Hydrophobic Polyelectrolytes”.
52. July 2002, Department of Chemistry, University of North Carolina, Chapel Hill, NC, “Charged Polymers”.
53. June 2002, Institute of Theoretical Physics, University of California at Santa-Barbara, Santa-Barbara, CA, “Polyelectrolyte Solutions”.
54. May 2002, Aspen Center for Physics, Aspen, CO, “Polyelectrolyte Adsorption”.

55. March 2002, Annual APS Meeting, Indianapolis, IN, “Hydrophobic Polyelectrolytes”.
56. February 2001, Institute of Materials Science, University of Connecticut, Storrs, CT, “Pearl-Necklace Story of Hydrophobic Polyelectrolytes”.
57. November 1999, Annual MRS Meeting, Boston, MA, “Scaling Theory of Hydrophobically Modified Polyelectrolytes”.
58. April 1999, Department of Materials Science and Engineering, the Pennsylvania State University, State College, PA, “Electrostatic Interactions in Polymeric Systems”.
59. January 1999, Department of Physics, University of North Carolina, Chapel Hill, NC,
60. “Electrostatic Interactions in Polymeric Systems”.
61. August 1998, Annual ASC Meeting, Boston, MA, “Adsorption of Polyampholytes”.
62. October 1997, 69th Annual Meeting the Society of Rheology, Columbus, Ohio, “Scaling Theory of the Solutions of Associative Polyelectrolytes”.
63. June 1997, “Adsorption of Polyampholytes on a Charged Surface”, Department of Materials Science and Engineering, the Pennsylvania State University, State College, PA.
64. June 1997, “Thermodynamic Principles of Self-Assembly” (short course of lectures), Department of Materials Science and Engineering, the Pennsylvania State University, State College, PA.
65. March 1996, “Dynamics of Semidilute Polyelectrolyte Solutions”, Annual APS Meeting, St. Louis, MO.
66. February 1996, “Polymers in Random Media”, Department of Physics, UNC at Chapel Hill, NC.
67. October 1995, “Copolymers in Random Media”, CEA, Service de Physique Theorique, CE-SACLEY, France.
68. September 1995, “Phase Separation in Random Heteropolymers near the Lifshitz Point”, E.S.P.C.I., Paris, France.
69. September 1995, “Fluctuation Theory of Random Multi-block Copolymers”, Institute Charles Sadron, Strasbourg, France.
70. May 1994, “Simple View on the Phase Transition in Random Copolymers”, Department of Physics, University of Florida, Gainesville, FL.
71. February 1994, “Weak Crystallization Theory in Copolymer Systems”, Department of Physics and Astronomy, University of Rochester, Rochester, NY.
72. December 1993, “Freezing Transition in Random Copolymers”, Chemistry Department, Harvard University, Boston, MA.
73. December 1993, “Fluctuation Theory of Random Copolymers”, Physics Department, MIT, Boston, MA.

Papers Presented at Conferences

1. February 2012, Annual APS Meeting, Boston, MA, “Compression of Multiwall Nanobubbles”, N. Lebedeva, S. Moor, A. V. Dobrynin, M. Rubinstein, S. Sheiko.
2. February 2012, Annual APS Meeting, Boston, MA, ”Interaction between Brush Layers of Bottle-Brush Polyelectrolytes: Molecular Dynamics Simulations”, D. Russano, J.-M. Y. Carrillo, A. V. Dobrynin.
3. February 2012, Annual APS Meeting, Boston, MA, “Layer-by-Layer Assembly of Polyelectrolyte Chains and Nanoparticles on Porous Substrates: Molecular Dynamics Simulations”, J.-M. Y. Carrillo, A. V. Dobrynin.
4. February 2012, Annual APS Meeting, Boston, MA, “Polyelectrolytes in Salt Solutions: Molecular Dynamics Simulations”, A. V. Dobrynin, J.-M. Y. Carrillo.
5. February 2012, Annual APS Meeting, Boston, MA, “Can Structured Mixed Solvents be Used for Graphene Exfoliation?”, A. J. Oyer, J.-M. Y. Carrillo, C. H. Hire, A. D. Asandei, A. V. Dobrynin, D. H. Adamson.

6. February 2012, Annual APS Meeting, Boston, MA, " Layer-by-Layer Assembly of Charged Nanoparticles on Porous Substrates: Molecular Dynamics Simulations", J.-M. Y. Carrillo, A. V. Dobrynin.
7. February 2012, Annual APS Meeting, Boston, MA, "Frection between Brush Layers of Charged and Neutral Bottle-Brush Macromolecules: Molecular Dynamics Simulations", D. Russano, J.-M. Y. Carrillo, A. V. Dobrynin.
8. February 2012, Annual APS Meeting, Boston, MA,"Dynamics of Nanoparticle Adhesion" A. V. Dobrynin, J.-M. Y. Carrillo, E. Raphael.
9. February 2012, GRC on Colloidal, Macromolecular and Polyelectrolyte Solutions, Ventura, CA," Stabilization of Graphene Sheets by a Structured Benzene/Hexafluorobenzene Mixed Solvent", A. J. Oyer, J.-M. Y. Carrillo, A. D. Asandei, A. V. Dobrynin, D. H. Adamson
10. February 2012, GRC on Colloidal, Macromolecular and Polyelectrolyte Solutions, Ventura, CA, "Effect of Electrostatic Interactions on Friction and Lubrication in Bottle-Brush Systems: Molecular Dynamics Simulations", J.-M. Y. Carrillo, A. V. Dobrynin.
11. March 2011, Annual APS Meeting, Dallas, TX, "Universality in Nonlinear Elasticity of Polymeric and Biological Networks", A. V. Dobrynin, J.-M. Y. Carrillo.
12. March 2011, Annual APS Meeting, Dallas, TX, "Chains Are More Flexible under Tension", J.-M. Y. Carrillo, A. V. Dobrynin, M. Rubinstein.
13. March 2011, Annual APS Meeting, Dallas, TX, "Molecular Dynamics Simulations of Grafted Layers of Bottle-Brush Polyelectrolytes", D. Russano, J.-M. Y. Carrillo, A. V. Dobrynin.
14. March 2011, Annual APS Meeting, Dallas, TX, "Molecular Dynamics Simulations of Interactions and Friction between Bottle-Brush Layers", D. Russano, J.-M. Y. Carrillo, A. V. Dobrynin.
15. March 2011, Annual APS Meeting, Dallas, TX, "Adhesion of Nanoparticles", J.-M. Y. Carrillo, A. V. Dobrynin.
16. March 2010, Annual APS Meeting, Portland, OR, "Effect of the Electrostatic Interactions on Stretching of Biological and Semiflexible Polyelectrolytes", J.-M. Y. Carrillo, E. Raphael, A. V. Dobrynin.
17. March 2010, Annual APS Meeting, Portland, OR, "Adhesion of Nanoparticles", A. V. Dobrynin, J.-M. Y. Carrillo, E. Raphael.
18. March 2010, Annual APS Meeting, Portland, OR, "Molecular Dynamics Simulations of Fractionation of Molecular Brushes During Spreading on Substrates", J.-M. Y. Carrillo, A. V. Dobrynin, S. Sheiko.
19. March 2009, Annual APS Meeting, Pittsburgh PA, "Counterion Condensation and Collapse of Sodium Polystyrene Sulfonate in Water: A Molecular Dynamics Study", A.V. Dobrynin, J.-M. Carrillo.
20. March 2009, Annual APS Meeting, Pittsburgh PA,"Control of the Morphology of Superhydrophobic Surfaces" , R. Weiss, A.V. Dobrynin, X. Wang.
21. March 2008, Annual APS Meeting, New Orleans, LA, "Molecular Dynamics Simulation of Polyelectrolyte Brushes: From Hemispherical Micelles to Maze-like Aggregates", J.-M. Carrillo, A. V. Dobrynin.
22. March 2008, Annual APS Meeting, New Orleans, LA, "Molecular Dynamics Simulations of Nanoimprinting Process", J.-M. Carrillo, A. V. Dobrynin.
23. March 2008, Annual APS Meeting, New Orleans, LA, "Flory Theorem for Structurally Asymmetric Blends", A. V. Dobrynin, Frank Sun, David Shirvanyants, G, Rubinstein, M. Rubinstein, S. Sheiko, H.-I. Lee, K. Matyjaszewski.
24. March 2007, Annual APS Meeting, Denver, CO, "Rouse Dynamics of Polyelectrolyte Solutions: Molecular Dynamics Study" A. V. Dobrynin, Q. Liao, M. Rubinstein.
25. March 2007, Annual APS Meeting, Denver, CO, "Molecular Dynamics Simulations of Nanomolding Process", J.-M. Carrillo, A. V. Dobrynin.
26. March 2007, Annual APS Meeting, Denver, CO, " Molecular Dynamics Simulations of the Nanopropulsion Engine", J. Jeon, J.-M. Carrillo, A. V. Dobrynin.

27. March 2007, Annual APS Meeting, Denver, CO, " The Effect of the Dielectric Constant on Polyelectrolyte Brushes Grafted to Spherical Substrate", D. Sandberg, T.P. Seery, A. V. Dobrynin.
28. March 2006, Annual APS Meeting, Baltimore, MD, "Polymer confinement and bacterial gliding motility", J Jeon, A. V. Dobrynin.
29. March 2006, Annual APS Meeting, Baltimore, MD," A New Necklace Model" A.V. Dobrynin, M. Rubinstein, Qi Liao
30. March 2006, Annual APS Meeting, Baltimore, MD, "Molecular Dynamics Simulations of Multilayer Polyelectrolyte Films", P. Patel, J. Jeon, A. V. Dobrynin, P. T. Mather.
31. March 2006, Annual APS Meeting, Baltimore, MD, "Molecular Dynamics Simulations of Polyelectrolyte Adsorption at Oppositely Charged Surfaces", J.-M. Carrilo, A. V. Dobrynin.
32. March 2006, Annual APS Meeting, Baltimore, MD, "Molecular Dynamics Simulations of Polyelectrolyte-Polyampholyte Complexes. Effect of Solvent Quality and Salt Concentration.", J. Jeon, A. V. Dobrynin.
33. March 2006, 231 ACS National Meeting, Atlanta, GA, "Self-Association of Block-Polyampholytes", Z. Wang, N. P. Shusharina, E. B. Zhulina, A. V. Dobrynin, M. Rubinstein.
34. March 2005, Annual APS Meeting, Los Angeles, CA, "Molecular dynamics simulations of electrostatic layer-by-layer assembly of polyelectrolytes near charged planar surface", P. Patel, J. Jeon, P. Mather, A. Dobrynin.
35. March 2005, Annual APS Meeting, Los Angeles, CA, "Comments on Electrostatic Persistence Length", A. Dobrynin.
36. March 2005, Annual APS Meeting, Los Angeles, CA, "Why nozzles are required for bacterial gliding?" J. Jeon, A. Dobrynin.
37. March 2005, Annual APS Meeting, Los Angeles, CA, "Molecular Dynamics Simulations of Protein-Polyelectrolyte Multilayer Assembly", V. Panchagnula, J. Jeon, A. V. Dobrynin.
38. March 2005, Annual APS Meeting, Los Angeles, CA, "Polyelectrolyte Spin-Assembly: Effect of Ionic Strength and Spinning Rate on the Growth of Multilayered Thin Films", C. Lefaux, P. Patel, J. Jeon, A. Dobrynin, P. Mather.
39. March 2005, Annual APS Meeting, Los Angeles, CA, "Conformation-triggered flow instability in monolayer thick polymer films", S. Sheiko, H. Xu, D. Shirvanyants, K. Beers, K. Matyjaszewski, M. Rubinstein, A. Dobrynin.
40. July 2004, Polymer Gordon Research Conference, Connecticut College, CT, J. Jeon, A.V. Dobrynin "Polymer Confinement and Bacteria Motility".
41. July 2004, Polymer Gordon Research Conference, Connecticut College, CT, V. Panchagnula, J. Jeon, A. V. Dobrynin "MD Simulations of Layer-by-Layer Polyelectrolyte Assembly".
42. June 2004, Vth International Symposium on Polyelectrolytes, University of Massachusetts, Amherst, MA, A.V. Dobrynin, J. Jeon, "Molecular Simulations of Protein-Polyelectrolyte Complexes".
43. June 2004, Vth International Symposium on Polyelectrolytes, University of Massachusetts, Amherst, MA, V. Panchagnula, J. Jeon, A. V. Dobrynin "MD Simulations of Layer-by-Layer Protein-Polyelectrolyte Assembly".
44. June 2004, Vth International Symposium on Polyelectrolytes, University of Massachusetts, Amherst, MA, P.A. Patel, C. Lefaux, J. Jeon, A.V. Dobrynin, P.T. Mather, "Polyelectrolyte Spin-Assembly: Effect of Ionic Strength and Spinning Rate on the Growth of Multilayered Thin Films".
45. March 2004, Annual APS Meeting, Montreal, Canada, V. Panchagnula, J. Jeon, A. V. Dobrynin "MD Simulations of Layer-by-Layer Polyelectrolyte Assembly".
46. March 2004, Annual APS Meeting, Montreal, Canada, A.V. Dobrynin, J. Jeon "Polymer Confinement and Bacteria Motility".
47. March 2004, Annual APS Meeting, Montreal, Canada, A.V. Dobrynin, J. Jeon, "Molecular Simulations of Protein-Polyelectrolyte Complexes".
48. February 2004, SAMSI workshop on Complex Fluids, Chapel Hill, NC, A.V. Dobrynin, J. Jeon "Polymer Confinement and Bacteria Motility".

49. February 2004, The Gordon Research Conference, Ventura, CA, V. Panchagnula, J. Jeon, A. V. Dobrynin "MD Simulations of Layer-by-Layer Polyelectrolyte Assembly".
50. February 2004, The Gordon Research Conference, Ventura, CA, J. Jeon, A. V. Dobrynin, "Molecular Simulations of Protein-Polyelectrolyte Complexes".
51. September 2003, Annual ACS Meeting, New York City, NY, V. Panchagnula, J. Jeon, A. V. Dobrynin "MD Simulations of Layer-by-Layer Protein-Polyelectrolyte Self-Assembly".
52. September 2003, Annual ACS Meeting, New York City, NY, V. Panchagnula, J. Jeon, A. V. Dobrynin "MD Simulations of Layer-by-Layer Protein-Polyelectrolyte Self-Assembly".
53. September 2003, Annual ACS Meeting, New York City, NY, J. Jeon, A. V. Dobrynin, "Molecular Simulations of Protein-Polyelectrolyte Complexes".
54. March 2003, Annual APS Meeting, Austin, TX, A. V. Dobrynin, M. Rubinstein "Effect of Short Range Interactions on Polyelectrolyte Adsorption".
55. March 2003, Annual APS Meeting, Austin, TX, A. V. Dobrynin, Junhwan Jeon "Molecular Simulations of Protein Polyelectrolyte Complexes".
56. March 2003, Annual APS Meeting, Austin, TX, M. Rubinstein, A. V. Dobrynin, Qi Liao, "Scaling Theories and Computer Simulations of Polyelectrolyte Solutions".
57. August 2002, Gordon Research Conference "Polymer Physics", Newport, RI, A. V. Dobrynin, M. Rubinstein "Adsorption of Hydrophobic Polyelectrolytes".
58. March 2002, Annual APS Meeting, Indianapolis, IN, A. V. Dobrynin, M. Rubinstein "Adsorption of Hydrophobic Polyelectrolytes".
59. March 2002, Annual APS Meeting, Indianapolis, IN, Qi Liao, M. Rubinstein, A. V. Dobrynin "Counterion Distribution and Osmotic Pressure of Polyelectrolyte Solutions".
60. February 2002, Gordon Research Conference "Polymer West", Ventura, CA, Qi Liao, M. Rubinstein, A. V. Dobrynin "Molecular Dynamics Simulation of Polyelectrolyte Solutions".
61. October 2001, Annual Society of Rheology Meeting, Bethesda, DC, A. V. Dobrynin, M. Rubinstein "Counterion Condensation and Phase Separation in Solutions of Hydrophobic Polyelectrolytes".
62. April 2001, North Carolina Section ACS Meeting, Raleigh, NC, Qi Liao, A. V. Dobrynin, M. Rubinstein "Molecular Dynamic Simulations of Semidilute Polyelectrolyte Solutions".
63. April 2001, North Carolina Section ACS Meeting, Raleigh, NC, I. M.Withers, A. V. Dobrynin, M. Rubinstein "Off-lattice Monte-Carlo Simulations of the Micellization Properties of Polymeric Surfactants".
64. March 2001, Annual APS Meeting, Seattle, WA, M. Rubinstein, A. V. Dobrynin, A. Deshkovski "Polyelectrolyte Adsorption at an Oppositely Charged Surface".
65. December 2000, "Self-Assembly of Water Soluble Polymers" Symposium at Pacifichem 2000, Honolulu, Hawaii, M. Rubinstein, A. V. Dobrynin "Self-Assembly of Hydrophobically Modified Polyelectrolytes".
66. October 2000, NATO Advanced Study Institute, "Electrostatic Effects in Soft-Matter and Biophysics", Les Houches, France, A. Deshkovski, A. V. Dobrynin, M. Rubinstein "Polyelectrolyte Adsorption at an Oppositely Charged Surface".
67. July 2000, "Polyelectrolytes 2000", Les Diablerets, Switzerland, M. Rubinstein, A. V. Dobrynin, A. Deshkovski "Polyelectrolyte Adsorption at an Oppositely Charged Surface".
68. March 2000, Annual APS Meeting, Minneapolis, MN, A. V. Dobrynin, M. Rubinstein, E. Zhulina "Polyampholytes Adsorption on Charged Spherical Particle".
69. November 1999, Regional APS Meeting, Chapel Hill, NC, A. Deshkovski, A. V. Dobrynin, M. Rubinstein "Adsorption of Polyelectrolyte on an Oppositely Charged Surface".
70. November 1999, Regional APS Meeting, Chapel Hill, NC, P. Bermel, A. V. Dobrynin, M. Rubinstein "Monte-Carlo Simulation of Polyampholyte Adsorption on a Charged Surface".
71. August 1999, ACS Meeting, New Orleans, LA M. Rubinstein, A. V. Dobrynin "Hydrophobically Modified Polyelectrolytes".
72. August 1999, ACS Meeting, New Orleans, LA M. Rubinstein, A. V. Dobrynin, A. N. Semenov "Solutions of Associating Polymers".

73. March 1999, ACS Meeting, Anaheim, CA, S. L.Wells, E. Buhler, A. V. Dobrynin, J. M. DeSimone, M. Rubinstein "A Light Scattering Study of Surfactants in CO_2".
74. March 1999, Annual APS Meeting, Atlanta, GA, A. V. Dobrynin, M. Rubinstein "Hydrophobic Polyelectrolytes".
75. March 1999, Annual APS Meeting, Atlanta, GA, A. V. Dobrynin, M. Rubinstein, S. P. Obukhov "Polyampholyte Adsorption".
76. March 1999, Annual APS Meeting, Atlanta, GA, A. Deshkovski, A. V. Dobrynin, M. Rubinstein "Adsorption of Polyelectrolyte on an Oppositely Charged Surface".
77. March 1999, Annual APS Meeting, Atlanta, GA, S. Wells, E. Buhler, A. Dobrynin, J. M. DeSimone, M. Rubinstein "A Light Scattering Study of Surfactants in CO_2".
78. October 1998, "Electrostatic Effects in Complex Fluids and Biopolymers", ITP, Santa Barbara, CA, A. V. Dobrynin, M. Rubinstein, S. P. Obukhov "Hydrophobic Polyelectrolytes".
79. October 1998, "Electrostatic Effects in Complex Fluids and Biopolymers", ITP, Santa Barbara, CA, M. Rubinstein, A. V. Dobrynin, S. P. Obukhov "Polyampholyte Adsorption".
80. August 1998, ACS Meeting, Boston, MA, A. V. Dobrynin, M. Rubinstein, "Hydrophobically Modified Polyelectrolytes".
81. May 1998, Gordon Research Conference on "Complex Fluids", Tuscany, Italy; M. Rubinstein, A. V. Dobrynin, S. P. Obukhov "Adsorption of Polyampholytes".
82. January 1998, Gordon Research Conference "Polymer West", Ventura, CA, A. V. Dobrynin, M. Rubinstein, "Hydrophobically Modified Polyelectrolytes".
83. October 1997, 69th Annual Meeting the Society of Rheology, Columbus, Ohio, D. Long, A. Ajdary, A. V. Dobrynin, M. Rubinstein, "Drift and Deformation of Heterogeneously Charged Chains in Electric Fields".
84. October 1997, International Workshop "Understanding Polyelectrolytes", Mainz, Germany, M. Rubinstein, A. V. Dobrynin, R. H. Colby "Dynamic Scaling of Semidilute Polyelectrolyte Solutions".
85. July 1997 - 3rd International Discussion Meeting on "Relaxations in Complex Systems", Vigo, Spain, J.-F. Joanny, A. V. Dobrynin, M. Rubinstein "Adsorption of Charged Polymers".
86. July 1997, Gordon Research Conference on "Organic Thin Films and Surfaces", Newport, RI, M. Rubinstein, A. V. Dobrynin, S. P. Obukhov, J.-F. Joanny "Adsorption of a Polyampholyte Chain on a Charged Surface".
87. June 1997, "Problems of Condensed Matter Theory", Moscow Russia, M. Rubinstein, A. V. Dobrynin, S. P. Obukhov "Cascade of Transitions of Polyelectrolytes in Poor Solvents".
88. February 1997, 68th Society of Rheology Meeting, Galveston, TX, M. Rubinstein, A. V. Dobrynin, R. H. Colby "Dynamics of Charged Polymers".
89. July 1996, Gordon Research Conference "Polymer Physics", Newport, RI, A. V. Dobrynin, M. Rubinstein, J-F. Joanny "Adsorption of a Polyampholyte Chain on a Charged Surface".
90. March 1996, Annual APS Meeting, St. Louis, MO, A. V. Dobrynin, K. Binder, T. Vilgis, S. Stepanow "Copolymers in Random Media".
91. June 1996, XIV Sitges Conference, "Complex Behavior in Glassy Systems", Barcelona, Spain, S. Stepanow, A. V. Dobrynin, T. A. Vilgis "Copolymer Melts in Disordered Media".
92. December 1995, International Chemical Congress of Pacific Basin Societies, Honolulu, Hawaii, M. Rubinstein, A. V. Dobrynin, R. H. Colby "Dynamics of Semidilute Polyelectrolyte Solutions".
93. October 1995, Symposium on "Computer Modeling of Polymers" at the Northeast Regional ACS Silver Anniversary Meeting, Rochester, NY, M. Rubinstein, A. V. Dobrynin, S. P. Obukhov "Cascade of Transitions of Polyelectrolytes in Poor Solvents".
94. January 1995, Polymers-West Gordon Research Conference, Ventura, CA, M. Rubinstein, A. V. Dobrynin, R. H. Colby "Scaling Theory of Charged Polymers".
95. June 1994 - Workshop on "Collective Phenomena in Polymers", London, ON, Canada, M. Rubinstein, A. V. Dobrynin, R. H. Colby "Scaling Theory of Polyelectrolyte Solutions".

96. March 1994, Annual APS Meeting, Pittsburgh, PA, A. V. Dobrynin, M. Rubinstein, R. Colby "Scaling Theory of Polyelectrolyte Solutions".
97. June 1991, International School-Seminar "Modern Problems of Physical Chemistry of Macromolecules", Puschino, USSR, I. Ya. Erukhimovich, A. V. Dobrynin "Development of Microscopic Theory of Microphase Separation in Polymer Systems as a Technological Problem".
98. June 1991, International School-Seminar "Modern Problems of Physical Chemistry of Macromolecules", Puschino, USSR, A. V. Dobrynin, I.Ya. Erukhimovich "Screened Interaction and Deformation of Block Copolymer Macromolecules near Microphase Separation: Effects of Fluctuations and Ordering".
99. April 1991, International Conference "Network-91" (Polymer Networks: Synthesis, Structure and Properties) Moscow-Suzdal, USSR, A. V. Dobrynin, I. Ya. Erukhimovich "A Statistical Theory of Weak Gelation: Phase Diagrams of Polymer Systems with Hydrogen Bonds and Silicate Melt".
100. November 1990, Fundamental Problem in Modern Polymer Science, Leningrad, USSR, A. V. Dobrynin, I. Ya. Erukhimovich "A Theory of Weak Crystallization of Two-component Melts of Heteropolymers of Complicated Chemical Structure: Fluctuation Effects".
101. July 1990, 33rd International Symposium IUPAC on Macromolecules, Montreal, Canada, I. Ya. Erukhimovich, V. Yu. Borue, A. V. Dobrynin "A Statistical Theory of Polydisperse Solutions and Globular Complexes of Weakly Charged Polyelectrolytes".