Publications (Total 154; h-index = 28):

1. *Shear History Independence in Colloidal Aggregation,* W. R. Heinson, C. M. Sorensen and A. Chakrabarti, Langmuir, **28**, 11337 (2012).
2. *Nucleation in Short-Range Attractive Colloids: Ordering and Symmetry of Clusters, S*. J. Khan, O.L. Weaver, C.M. Sorensen, and A. Chakrabarti, Langmuir, **28**, 16015 (2012).
3. *Discrete Dipole Approximation for Low-Energy Photoelectron Emission from NaCl Nanoparticles,* M. J. Berg, K. R. Wilson, C. M. Sorensen, A. Chakrabarti and M. Ahmed, J. of Quant. Spectrosc. Radiat. Transfer. 113, 259- 265 (2012).
4. *Synthesis of Silica Aerosol Gels via Controlled Detonation,* R. Dhaubhadel, T. P. Rieker, A. Chakrabarti and C. M. Sorensen, Aerosol Sci. & Tech., **46**, 596 (2012).
5. *Solubility of Gold Nanoparticles as a Function of Ligand Shell and Alkane Solvent,* B. C. Lohman, J. A. Powell, S. Cingarapu, C. B. Aakeroy, A. Chakrabarti, K. J. Klabunde, B. M. Law, and C. M. Sorensen, Phys. Chem. Chem. Phys., **14**, 6509 (2012).
6. *Nucleation of Nanoparticle Superclusters from Solution,* S. J. Khan, C. M. Sorensen and A. Chakrabarti, Langmuir, **28**, 5570 (2012).
7. *A three parameter description of the structure of diffusion limited cluster fractal aggregates,* W. R. Heinson, C. M. Sorensen and A. Chakrabarti, Journal of Colloid and Interface Science, **375**, 65 (2012).
8. *Ethanol Shock and Lysozyme Aggregation,* L. R. Nemzer, B. N. Flanders, J. D. Schmit, A. Chakrabarti and C. M. Sorensen, accepted for publication in Soft Matter (2012).
9. Formation of Light-weight Low-density Materials via Gas Phase Aerosol Gelation, C. M. Sorensen, R. Dhaubhadel, C. S. Gerving, and A. Chakrabarti, MRS proceedings, Vol. 1306, 93 (2011).
10. *Kinetics of Nanochain Formation in a Simplified Model of Amelogenin Biomacromolecules* Wei Li et al., Biophysical Journal, **101**, 2502-2506 (2011).
    Our simulation artwork was used on the cover page of the Journal.
11. *Pathways of Cluster Growth and Kinetic Slowing Down in a Model of Short-Range Attractive Colloids* Toni Perez et al., Langmuir **27**, 11401-11408 (2011) .
12. *A new explanation of the extinction paradox* , M. Berg, C.M. Sorensen, A. Chakrabarti, Journal of Quantitative Spectroscopy & Radiative Transfer, **112** , 1170-1181 (2011).
13. *The Sol to Gel Transition in Irreversible Particulate Systems,* C.M. Sorensen and A. Chakrabarti, **Invited Review,** Soft Matter, **7,** 2284-2296 (2011).
14. *Brownian Dynamics Simulation of Insulin Microsphere Formation from Break-up of a Fractal Network,* Wei Li, James D. Gunton, Siddique Khan, Kevin Schoelz, and A. Chakrabarti, J. Chem. Phys. 134, 024902 (2011)
15. *Some Topics in the kinetics of protein aggregation,* James D. Gunton, Wei Li, Ya Liu, Toni Perez, Siddique Khan, and A. Chakrabarti, Procedia Computer Science (in press).
16. *Does Shape Anisotropy Control the Fractal Dimension in Diffusion-Limited Cluster-Cluster Aggregation?* W.R. Heinson, C.M. Sorensen, and A. Chakrabarti , Aerosol. Sci. and Tech. (Research Letter) **44,** i (2010).
17. *Explanations of the patterns in Mie Theory,* M.J. Berg, C.M. Sorensen, and A. Chakrabarti, J. Quant. Spectros. Radiant Transf. **111**, 782 (2010).
18. *Computer Simulation of Aggregation with Consecutive Coalescence and Non-Coalescence Stages in Aerosols*, W.R. Heinson, C.M. Sorensen, and A. Chakrabarti , Aerosol. Sci. and Tech. **44**, 380 (2010).

19. *Nucleation of Gold Nanoparticle Superclusters from Solution*, H. Yan, S. Cingarapu, K. J. Klabunde, A. Chakrabarti, and C. M. Sorensen, Phys. Rev. Lett., **102**, 095501 (2009).

20. *Self-Assembly of Ligated Gold Nanoparticles: Phenomenological Modeling and Computer Simulations, S*iddique J. Khan, F. Pierce, C.M. Sorensen, and A. Chakrabarti, **(Invited to be published in the 25th Anniversary special issue);** Langmuir, **25**, 13861 (2009).

21. *Light Scattering Study of Aggregation Kinetics in Dense, Gelling Aerosols,* R. Dhaubhadel, A. Chakrabarti and C. M. Sorensen, Aerosol Sci and Tech. **43**, 1053 (2009).

22. *A Simple Model of Directional Interactions for Proteins,* Xiaofei Li, J. D. Gunton, and A. Chakrabarti, J. Chem. Phys131, 115101 (2009).

23. *Kinetics and Morphology of Cluster Growth in a Model of Short-Range Attractive Colloids,* Siddique J. Khan, C.M. Sorensen, and A. Chakrabarti, J. Chem. Phys. **131**, 194908 (2009).

24. General derivation of the total electromagnetic cross sections for an arbitrary particle, M. J. Berg, C. M. Sorensen and A. Chakrabarti, J. Quant. Spectros. Radiant Transf. 110, 43 (2009).

25. *Modeling arrested cluster growth in quenched nanoparticle solutions,* I. Podariu, Hao Yan, C. M. Sorensen, and A. Chakrabarti , J. Chem. Phys. 129, 034706 (2008).

26. *Shear effects on crystal nucleation in colloidal suspensions,* Juan J. Cerdà, Tomás Sintes, C. Holm, C. M. Sorensen, and A. Chakrabarti , Phys. Rev. E **78** 031403 (2008).

27. *Reflection symmetry of a sphere's internal field and its consequences on scattering: a microphysical approach,* M. J. Berg, C. M. Sorensen, and A. Chakrabarti, J. Opt. Soc. Am. A. **25,** pp. 98-107 (2008).

28. *Extinction and the optical theorem. Part I. Single particles,* M. J. Berg, C. M. Sorensen and A. Chakrabarti, J. Opt. Soc. Am. A **25**, pp. 1504-1513 (2008).

29. *Extinction and the optical theorem. Part II. Multiple particles,* M. J. Berg, C. M. Sorensen and A. Chakrabarti, J. Opt. Soc. Am. A **25,** pp. 1514-1520 (2008).

30. *The Effect of Shear on Colloidal Aggregation and Gelation using Small Angle Light Scattering,* T. Mokhtari, A. Chakrabarti, and C.M. Sorensen, J. Coll. & Inter. Sci., 327, 216-223 (2008).

31. *Computer simulation of phase separation under a double temperature quench,* Iulia Podariu and Amitabha Chakrabarti, J. Chem. Phys. 126, 154509 (2007).

32. *Aerosol Gelation: Synthesis of a Novel, Lightweight, High Specific Surface Area Material*, R. Dhaubhadel, C.S. Gerving, A. Chakrabarti, and C.M., Sorensen, Aerosol Science and Technology, 41, 804 (2007).

33. *Extinction and the electromagnetic optical theorem,* M. J. Berg, C. M. Sorensen, and A. Chakrabarti, in *Peer Reviewed Abstracts of the Tenth Conference on Electromagnetic and Light Scattering*, G. Videen, M. I. Mishchenko, P. M. Menguc, and N. Zakharova, eds. (2007).

34. *Computer simulation of diffusion-limited cluster-cluster aggregation with an Epstein drag force,* F. Pierce, C.M. Sorensen, and A. Chakrabarti, Phys. Rev. E. **74,** 021411 (2006).

35. *Hybrid superaggregate morphology as a result of aggregation in a cluster-dense aerosol,* R. Dhaubhadel, F. Pierce, A. Chakrabarti, C.M. Sorensen, Phys. Rev. E, **73,** 011404 (2006).

36. *Aggregation-Fragmentation in a Model of DNA-Mediated Colloidal Assembly,* F. Pierce, C.M. Sorensen, and A. Chakrabarti, Langmuir, **21**, 8992 (2005).

37. *Excluded volume effects on polymer adsorption onto spherical surfaces,* J.J. Cerda, T. Sintes, A. Chakrabarti, Macromolecules, **38**, 1469 (2005).

38. *Multiple-scattering effects on light scattering optical structure factor measurements,* T. Mokhtari, C.M. Sorensen, and A.Chakrabarti, Appl. Opt. **44**, 7858 (2005).

39. *Patterns in Mie Scattering: evolution when normalized by the Rayleigh cross-section,* M.J. Berg, C.M. Sorensen, and A.Chakrabarti, Appl. Opt. **44**, 7487 (2005).

40. *Structural crossover in dense irreversibly aggregating particulate systems*, D. Fry, A. Chakrabarti, W. Kim, and, C.M. Sorensen, Phys. Rev. E **69,** 061401 (2004).
41. *Molecular dynamics simulation of the transition from dispersed to solid phase*, A. Chakrabarti, D. Fry, and C.M. Sorensen, Phys. Rev. E **69**, 031408 (2004).
42. *Computer Simulation of Selective Aggregation in Binary Colloids*, F.Pierce, A. Chakrabarti, D. Fry, and, C.M. Sorensen, Langmuir **20**, 2498 (2004).
43. *Universal Occurrence of Soot Aggregates with a Fractal Dimension 2.6 in Heavily Sooting Laminar Diffusion Flames*, W. Kim, C. M. Sorensen, and A. Chakrabarti, Langmuir **20**, 3969 (2004).
44. *Kinetics of Phase Transformations in Depletion-Driven Colloids*, J.J. Cerda, T. Sintes, C.M. Sorensen, and A. Chakrabarti, Phys. Rev. E **70**, 011405 (2004).
45. *Cluster Shape Anisotropy in Irreversibly Aggregating Particulate Systems*, D. Fry, A. Mohammad, A. Chakrabarti, and C.M. Sorensen, Langmuir **20**, 7871 (2004).
46. *Structure factor scaling in colloidal phase separation*, J.J. Cerda, T. Sintes, C.M. Sorensen, A. Chakrabarti, Phys. Rev. E **70**, 051405 (2004).
47. *Morphology of asymmetric block copolymer thin films*, I. Podariu, and A. Chakrabarti, Journal of Chemical Physics, **118,** 11249 (2003).
48. *Observation of Soot Superaggregates in Laminar Acetylene/Air Diffusion Flames with a Fractal Dimension of 2.6*, C.M. Sorensen, W. Kim, D. Fry, D. Shi, and A. Chakrabarti, Langmuir **19**, 7560 (2003).
49. *Enhanced Kinetics and Free-Volume Universality in Dense Aggregating Systems*, D. Fry, T. Sintes, A. Chakrabarti, and C.M. Sorensen, Phys. Rev. Lett. **89**, 148301 (2002).
50. *Anisotropic Ordering in Sheared Binary Fluids with Viscous Asymmetry: Experiment and Computer Simulation*, H.S. Jeon, Z. Shou, A. Chakrabarti, and E.K. Hobbie, Phys. Rev. E. **65**, 41508 (2002).
51. *Late Stages of Ordering in Thin Polymer Films on Chemically Heterogeneous Substrates: Energetics and Metastability*, Z. Shou and A. Chakrabarti, Polymer **42**, 6141 (2001).
52. *Block Copolymer Thin Films on Corrugated Substrates*, I. Podariu and A. Chakrabarti, J. Chem. Phys. **113**, 6423 (2000).
53. *Viscous Flow and Coarsening of Microdomains in Diblock Copolymer Thin Films*, I. Podariu, Z. Shou, and A. Chakrabarti, Phys. Rev. E (Rapid Communications) **62**, R3059 (2000).
54. *Interfacial Profiles of Mismatched Lamellae in Thin Diblock Copolymer Films*, G.G. Pereira, D.R.M. Williams, and A. Chakrabarti, Chem. Phys. **112**, 10011 (2000).
55. *Shear Effects on Phase Separating Polymer Solutions: a Molecular Dynamics Study*, H. Liu and A. Chakrabarti, J. Chem. Phys. **112**, 10582 (2000).
56. *Ordering of Viscous Liquid Mixtures Under a Steady Shear Flow*, Z. Shou and A. Chakrabarti, Phys. Rev. E (Rapid Communications), **61**, R2200 (2000).
57. *Trends in the Adsorption of Mono-End Capped Polystyrene onto Polar Substrates: Theoretical Predictions and Experimental Observations*, Z. Jian, R. Zajac, A. Chakrabarti, T. Dyakonov, X. Guo, C. Sorensen, D. Burns, and W.T.K. Stevenson, J. Appl. Polym. Sci., **76**, 1422 (2000).
58. *Network Domain Structure in Phase Separating Polymer Solutions*, H. Liu, A. Bhattacharya, and A. Chakrabarti, J. Chem. Phys. **111**, 11183 (1999).
59. *Effects of a Fumed Silica Network on Kinetics of Phase Separation in Polymer Blends*, A. Chakrabarti, J. Chem. Phys. **111**, 9418 (1999).
60. *Molecular Dynamics Study of Adsorption and Spreading of a Polymer Chain onto a Flat Surface*, H. Liu and A. Chakrabarti, Polymer **40**, 7285 (1999).

61. *Phase Behavior of Binary Fluid Mixtures Confined in a Model Aerogel*, R. Salazar, R.Toral and A. Chakrabarti, Journal of Sol-Gel Science and Technology, **15**, 175 (1999).
62. *Network-like Pattern Formation in Phase Separating Polymer Solutions: a Molecular Dynamics Study*, A. Bhattacharya, S. D. Mahanti, and A. Chakrabarti, Phys. Rev. Lett., **80**, 333 (1998).
63. *Morphology of thin block copolymer films on chemically patterned substrates*, H. Chen and A. Chakrabarti, J. Chem. Phys., **108**, 6897 (1998).
64. *Hydrodynamic Effects on Domain Growth in Off-Critical Polymer Blends*, H. Chen and A. Chakrabarti, J. Chem. Phys., **108**, 6006 (1998).
65. *Early Stages of Dewetting of Microscopically Thin Polymer Films: A Molecular Dynamics Study*, H. Liu, A. Bhattacharya, and A. Chakrabarti, J. Chem. Phys. **109**, 8607 (1998).
66. *Block Copolymer Films on Patterned Surfaces*, A. Chakrabarti and H. Chen, Journal of Polymer Science:Polymer Physics **36**, 3127 (1998).
67. *Self-Assembly of Neutral and Polar Surfactants: An Off-Lattice Monte Carlo Approach*, A. Bhattacharya, S. D. Mahanti, and Chakrabarti, J. Chem. Phys. **108**, 10281 (1998).
68. *Monte Carlo Study of Layer Formation and Exchange Kinetics in Polymer Adsorption*, A. Chakrabarti and R. Zajac, Progress in Colloid and Polymer Science, **110**, 291 (1998).
69. *Simulation of Phase Behavior of Fluids in Gels*, R. Salazar, R. Toral and A. Chakrabarti, in *Fourth Granada Lectures in Computational Physics*, edited by P. L. Garrido and J. Marro (Springer, Berlin, 1997).
70. *Monte Carlo Study of the Effects of Chemical Impurities on the Adsorption of Polymer Chains*, R. Zajac and A. Chakrabarti, J. Chem. Phys., **107**, 8637 (1997).
71. *Surface-directed Spinodal Decomposition: Hydrodynamic Effects*, H. Chen and A. Chakrabarti, Phys. Rev. E, **55**, 5680 (1997).
72. *Kinetics of Phase Ordering of Nematic Liquid Crystals in a Confined Geometry*, A. Bhattacharya, M. Rao and A. Chakrabarti, Phys. Rev. E, **53**, 4899 (1996).
73. *Diffusion and Magnetic Relaxation in Model Porous Media*, A. Bhattacharya, S. D. Mahanti and A. Chakrabarti, Phys. Rev. B, **53**, 11495 (1996).
74. *Substrate Induced Bulk Alignment of Liquid Crystals*, Z. Zhang, A. Chakrabarti, O. G. Mouritsen, and M. J. Zuckermann, Phys. Rev. E, **53**, 2461 (1996).
75. *Statics and Dynamics of Homopolymer Adsorption and Desorption: A Monte Carlo Study*, R. Zajac and A. Chakrabarti, J. Chem. Phys. **104**, 2418 (1996).
76. *Conformational Properties of Polyelectrolyte Brushes : A Monte Carlo and Self-Consistent-Field Study*, H. Chen, R. Zajac, and A. Chakrabarti, Journal of Chem. Phys. **104**, 1579 (1996).
77. *Fractal Structure of Silica Colloids Revisited*, T. Sintes, R. Toral and A. Chakrabarti, J. Phys. A **29**, 533 (1996).
78. *Dynamics of Nematic Ordering in Porous Media*, Z. Zhang and Chakrabarti, Europhys. Lett., 33, 23 (1996).
79. *Diffusion and Magnetic Relaxation in Computer Generated Model Porous Media*, A. Bhattacharya, S. D. Mahanti and A. Chakrabarti, in *Access in Nonoporous Materials*, edited by T. J. Pinnavaia and M. F. Thorpe, Plenum Press, New York (1995).
80. *Nematic Ordering in a Vycor-like Restrictive Geometry: A Two-Dimensional Model*, Z. Zhang and A. Chakrabarti, Physical Review E **52**, 4991 (1995).
81. *Layering Phase Separation of Densely Grafted Diblock Copolymers*, G. Brown, A. Chakrabarti, and J. F. Marko, Macromolecules **28**, 7817 (1995).

82. *Irreversible Polymer Adsorption from Semidilute and Moderately Dense Solutions*, R. Zajac and A. Chakrabarti, Phys. Rev. E 52, 6536 (1995).
83. *Effects of Grafting Geometry and Solvent Quality on the Structure of Bimodal Polymer Brushes*, H. Chen and A. Chakrabarti, Phys. Rev. E **52**, 3915 (1995).
84. *Slow Domain Growth in a System with Competing Interactions*, M. Rao and A. Chakrabarti, Phys. Rev. E (Rapid Communications), **52**, R13 (1995).
85. *Phase Separation of Binary Fluids in Porous Media: Asymmetries in Pore Geometry and Fluid Composition*, Z. Zhang and A. Chakrabarti, Physical Review E, **52**, 2736 (1995).
86. *Large Scale simulations of the two-dimensional Cahn-Hilliard Model*, R. Toral, A. Chakrabarti and J.D. Gunton, Physica A **213**, 41 (1995).
87. *Ordering of Block Copolymer Melts in Confined Geometry*, G. Brown and A. Chakrabarti, J. Chem. Phys., **102**, 1440 (1995).
88. *Phase Separation of Binary Fluids in a Cylindrical Pore: a Molecular Dynamics Study*, Z. Zhang and A. Chakrabarti, Phys. Rev. E (Rapid Communications) **50**, R4290 (1994).
89. *Dynamical Scaling of Fractal Aggregates in Dense Colloidal Solutions*, T. Sintes, R. Toral and A. Chakrabarti, Phys. Rev. E (Rapid Commun.), **50**, R3330 (1994).
90. *Reversible aggregation in self-associating polymer systems*, T. Sintes, R. Toral, and A. Chakrabarti, Phys. Rev. E **50**, 2967 (1994).
91. *Surface-Induced Nucleation*, G. Brown, A. Chakrabarti, and J. F. Marko, Phys. Rev. E **50**, 1674 (1994).
92. *Surface-Induced Ordering in Block Copolymer Melts*, G. Brown and A. Chakrabarti, J. Chem. Phys. **101**, 3310 (1994).
93. *Forces between Polymer Brushes: Monte Carlo Simulation of a Continuous-Space Model*, R. Toral, A. Chakrabarti, and R. Dickman, Physical Review E, **50**, 343 (1994).
94. *Surface-Induced Asymmetries during Spinodal Decomposition in Off-Critical Polymer Mixtures*, G. Krausch, E. J. Kramer, F. S. Bates, Marko, G. Brown, and A. Chakrabarti, Macromolecules, **27**, 6768 (1994).
95. *Anisotropy-Induced Crossover in Domain Growth Kinetics*, M. Rao and A. Chakrabarti, Phys. Rev. Lett. **72**, 2911 (1994).
96. *Dynamical Scaling Functions in Conserved Vector Order Parameter Systems without Topological Defects*, M. Rao, and A. Chakrabarti, Phys. Rev. E, **49**, 3727 (1994).
97. *Kinetics and Thermodynamics of End-Functionalized Polymer Adsorption and Desorption Processes*, R. Zajac and A. Chakrabarti, Physical Review E, **49**, 3069 (1994).
98. *Microphase Separation of a Dense Two-Component Grafted Polymer Layer*, G. Brown, A. Chakrabarti, and J. F. Marko, Europhys Lett. **25**, 239 (1994).
99. *Phase Separation in Binary Mixtures Confined in a Strip Geometry*, A. Bhattacharya, M. Rao, and A. Chakrabarti, Phys. Rev. **49**, 524 (1994).
100. *Interpenetrations in Polymer Brushes*, A. Chakrabarti, P. Nelson and R. Toral, J. Chem. Phys., **100**, 748 (1994).
101. *Monte Carlo Study of Pancake to Brush Transition*, A. Chakrabarti, Journal of Chemical Physics **100**, 631 (1994).
102. *Monte Carlo Study of Phase Separation in Critical Polymer Blends*, G. Brown and A. Chakrabarti, Physical Review E, **48**, 3705 (1993).
103. *Kinetics of Domain Growth in a Random-Field Model in Three Dimensions*, M. Rao, and A. Chakrabarti, Phys. Rev. Lett., **71**, 3501 (1993).

104. *Static and Dynamic Collective Correlations of Polymer Brushes*, J. F. Marko and A. Chakrabarti, Physical Review E, **48**, 2739 (1993).

105. *Conserved Dynamics of a Two-Dimensional Random Field Model*, M. Rao and A. Chakrabarti, Physical Review E (Rapid Communications), **48**, R25 (1993).

106. *Comment on Finite Temperature Phase Transition in Metallic Spin-Glasses*, A. Chakrabarti and C. Dasgupta, Physical Review Letters, **70**, 3178 (1993).

107. *Monte-Carlo Study of Polymer Chains End-Grafted onto a Spherical Interface*, R. Toral and A. Chakrabarti, Physical Review E, **47**, 4240 (1993).

108. *Late Stage Coarsening for Off-Critical Quenches: Scaling Functions and Growth Law*, A. Chakrabarti, R. Toral and J. D. Gunton, Phys. Rev. E, **47**, 3025 (1993).

109. *Generation of Gaussian Distributed Random Numbers by Using a Numerical Inversion Method*, R. Toral and A. Chakrabarti, Comp. Phys. Commun., **74**, 327 (1993).

110. *Lamellar Phase in a Model for Block Copolymers*, A. Chakrabarti and J. D. Gunton, Phys. Rev. E (Rapid Communications), **47**, R792 (1993).

111. *Phase Separation Dynamics in Off-Critical Polymer Blends*, Brown and A. Chakrabarti, J. Chem. Phys. **98**, 2451 (1993).

112. *Structure of Polymer Chains End-grafted on an Interacting Surface*, A. Chakrabarti, P. Nelson and R. Toral, Phys. Rev. A **46**, 4930 (1992).

113. *Surface-directed Spinodal Decomposition in a two-dimensional Model*, G. Brown and A. Chakrabarti, Phys. Rev. A **46**, 4829 (1992).

114. *Kinetics of Domain Growth and Wetting in a Model Porous Medium*, A. Chakrabarti, Phys. Rev. Lett., **69**, 1548 (1992).

115. *Reversible Aggregation in an Off-Lattice Particle Coalescence Model: Dynamical and Steady-State Scaling Behavior*, T. Sintes, R. Toral and A. Chakrabarti, Physical Review A **46**, 2039 (1992).

116. *Question of Dynamical Universality in Models for Phase Separation*, A. Chakrabarti and G. Brown, Physical Review A **46**, 981 (1992).

117. *Transition from Metastability to Instability in the Dynamics of Phase Separation*, A. Chakrabarti, Phys. Rev. B **45**, 9620 (1992).

118. *Droplet Distribution for the 2-d Cahn-Hilliard Model: Comparison of Theory with Large Scale Simulations*, R. Toral, A. Chakrabarti and J.D. Gunton, Phys. Rev. A (Rapid Communications) **45**, R2147 (1992).

119. *Dynamics of Wetting and Spreading: A Numerical Study*, A. Chakrabarti, Phys. Rev. B **45**, 6286 (1992).

120. *Structure Formation in Self-Associating Polymer and Surfactant Systems*, G. Brown and A. Chakrabarti, Journal of Chemical Physics, **96**, 3251 (1992).

121. *Scaling Behavior of a Model of Block Copolymers in Three Dimensions*, A. Chakrabarti, R. Toral and J.D. Gunton, Physical Review A **44**, 6503 (1991).

122. *Volume Fraction Dependence of Scaling Functions in Phase Separation Processes of Binary Mixtures*, A. Chakrabarti, R. Toral and J.D. Gunton, Physical Review B **44**, 12133 (1991).

123. *Numerical Study of Irreversible Aggregation Process in Three Dimensional Polymer and Surfactant Systems*, T. Sintes, R. Toral and Chakrabarti, Journal of Chemical Physics **94**, 5115 (1991).

124. *Numerical Study of a Langevin Model for the Growth of Wetting Layers*, R. Toral and A. Chakrabarti, Physical Review B **43**, 3438 (1991).

125. *Numerical Study of an Effective Interface Model for the Growth of Wetting Layers*, A. Chakrabarti, Physical Review B **43**, 3143 (1991).

126. *Computer Simulation of Stochastically Growing Interfaces with a Conservation Law*, A. Chakrabarti, J. Phys. A **23**, L919 (1990).

127. *Dynamics of Phase Separation in a Binary Polymer Blend of Critical Composition*, A. Chakrabarti, R. Toral, J.D. Gunton and M. Muthukumar, J. Chem. Phys. **92**, 6899 (1990).

128. *Domain Growth in the Two-Dimensional Time-Dependent Ginzburg-Landau Model in the Presence of a Random Magnetic Field*, E. Oguz, A. Chakrabarti, R. Toral and J.D. Gunton, Phys. Rev. B **42**, 704 (1990).

129. *Numerical Determination of the Phase Diagram of the ϕ^4 Model on the Square Lattice*, R. Toral and A. Chakrabarti, Phys. Rev. B **42**, 2445 (1990).

130. *Dynamical Scaling in Self-Associative Polymer Aggregates*, A. Chakrabarti, D.C. Hong and R. Toral, J. Phys. A **23**, L311 (1990).

131. *Numerical Studies of Phase Separation in Models of Binary Alloys and Polymer Blends*, J.D. Gunton, R. Toral and A. Chakrabarti, Physica Scripta, T**33**, 12 (1990).

132. *Density Profile of Terminally Anchored Polymer Chains: A Monte Carlo Study*, A. Chakrabarti and R. Toral, Macromolecules, **23**, 2016 (1990).

133. *Numerical Study of a Model for Interface Growth*, A. Chakrabarti and R. Toral, Phys. Rev. (Rapid Communications) B **40**, 11419 (1989).

134. *Microphase Separation in Block Copolymers*, A. Chakrabarti, R. Toral and J.D. Gunton, Phys. Rev. Lett. **63**, 2661 (1989).

135. *Spinodal Decomposition in Polymer Mixtures*, A. Chakrabarti, R. Toral, J.D. Gunton and M. Muthukumar, Phys. Rev. Lett. **63**, 2072 (1989).

136. *Computer Simulation of the Aggregation Process in Self-Associating Polymer and Surfactant Systems*, A. Chakrabarti and R. Toral, Journal of Chemical Phys. **91**, 5687 (1989).

137. *Torque Relaxation in Dzyaloshinskii-Moriya Spin-Glasses: A Numerical Study*, A. Chakrabarti, J. Phys.: Cond. Matter. **1**, 4121 (1989).

138. *Late Stages of Spinodal Decomposition in a Three Dimensional Model System*, A. Chakrabarti, R. Toral and J.D. Gunton, Phys. Rev. B **39**, 4386 (1989).

139. *Phase Transition in Random Anisotropy Magnets*, A. Chakrabarti, Phys. Rev. B **39**, 2807 (1989).

140. *Dynamics of Phase Separation in a Model of Diffusion Limited Crystal Growth*, J.B. Collins, A. Chakrabarti and J.D. Gunton, Phys. Rev. B **39**, 1506 (1989).

141. *Effect of Morphology on the Scaling Functions: Off-Critical Quenches*, R. Toral, A. Chakrabarti and J.D. Gunton, Phys. Rev. (Rapid Commun.) B **39**, 901 (1989).

142. *Approach to Ground State in Disordered Magnetic Systems: A Simulated Annealing Study*, A. Chakrabarti and R. Toral, Phys. Rev. B **39**, 542 (1989).

143. *Numerical Simulation of Models of Ordering: Scaling and Growth Laws*, J.D. Gunton, E.T. Gawlinski, A. Chakrabarti and K. Kaski, Jour. of Appl. Crystallography **21**, 811 (1988).

144. *Scaling and Domain Growth in a Model C System*, A. Chakrabarti, J.B. Collins and J.D. Gunton, Phys. Rev. B **38**, 6894 (1988).

145. *Spin-Glass Transition in Random Anisotropy Axis Model*, A. Chakrabarti, J. Appl. Phys. **63**, 3735 (1988).

146. *Phase Transition in Positionally-Disordered Josephson-Junction Arrays in A Transverse Magnetic Field*, A. Chakrabarti and C. Dasgupta, Physical Review B **37**, 7557 (1988).

147. *Monte Carlo Study of Realistic Models of Metallic Spin-Glasses*, A. Chakrabarti and C. Dasgupta, J. Phys. C **21**, 1613 (1988).

148. *Numerical Study of the Cahn-Hilliard Equation in Three-Dimensions*, R. Toral, A. Chakrabarti and J.D. Gunton, Phys. Rev. Lett. **60**, 2311 (1988).

149. *A Cell-Dynamics Approach to Late-Stage Domain Growth in Phase Separating Systems*, A. Chakrabarti and J.D. Gunton, Phys. Rev. (Rapid Communication) B **37**, 3798 (1988).

150. *Phase Transition in Metallic Spin-Glasses*, A. Chakrabarti and C. Dasgupta, in *Condensed Matter Theory*, Vol. II, Ed. by P. Vashista, R.K. Kalia and R.F. Bishop (Plenum Press, New York, 1987) pp. 9-18.

151. *Spin-Glass Transition in Three Dimensional Random-Anisotropy-Axis Model*, A. Chakrabarti, Phys. Rev. (Rapid Communication) B **36**, 5747 (1987).

152. *Anisotropy-Induced Phase Transition in Metallic Spin-Glass Alloys*, A. Chakrabarti and C. Dasgupta, Phys. Rev. B **36**, 793 (1987).

153. *Phase Transitions in the Bond-Diluted O(n) Model in Two Dimensions for $1 < n < 2$*, M.H. Lau and A. Chakrabarti, Jour. of Phys. C**20**, 3823 (1987).

154. *Phase Transition in Ruderman-Kittel-Kasuya-Yosida Model of Spin-Glasses*, A. Chakrabarti and C. Dasgupta, Phys. Rev. Lett. **56**, 1404 (1986).