- 32. Kaur C., and Shankar P. Das, 2001, Heterogeneities in Supercooled Liquids: A Density Functional
- Study: Physical Review Letters 86, 2062.
- 33. Srivastava S., and Shankar P. Das, 2001, Temperature Dependence of Secondary Relaxation in a Supercooled Liquid: International Journal of Modern Physics B 15, 4199.
- 34. Srivastava S. and Shankar P. Das, 2001, Fragility and Boson peak formation in a supercooled liquid: Physics Letters A, 286 76.
- 35. Harbola U., and Shankar P. Das, 2001, Structural relaxation and frequency-depndent specific heat in a supercooled liquid: Physical Review E 64, 046122.
- 36. Kaur C., and Shankar P. Das, 2001, Stability of amorphous structures with voids: Journal of Physics: Condensed Matter 13, 7259.
- 37. Kaur C., and Shankar P. Das, 2001, Heterogeneities in Supercooled Liquids: Static and Dynamical Aspects: Physics Teacher, Kolkata 43, S39-S42.
- 38. Srivastava, S., and Shankar P. Das, 2001, Dynamic Response in a Supercooled Liquid: Proceedings of the Department of Atomic Energy Solid State Physics Symposium, India, 44, 575.
- 39. Harbola U., and Shankar P. Das, 2002, Model for glass transition in a binary fluid from a mode coupling approach: Physical Review E 65, 036138.
- 40. Srivastava S., and Shankar P. Das, 2002, Transport coefficients at metastable densities from models of generalized hydrodynamics: Journal of Chemical Physics 116, 2529.
- 41. Kaur C., and Shankar P. Das, 2002, Metastable structures with modified weighted density-functional theory: Physical Review E, 65, 026123.
- 42. Srivastava, S., U. Harbola and Shankar P. Das 2002, Anomalous stretching in a simple glassforming liquid: Physical Review E, 65 051506.
- 43. Kaur, C., S. Srivastava and Shankar P. Das, 2002, Dynamics of a metastable liquid: Comparison of results from two different approaches: Physics Lett. A 300, 291.
- 44. Kaur, C., and Shankar P. Das, 2002, Dynamic Heterogeneities in a Simple Liquid over Different Time Scales: Physical Review Letters 89, 085701.
- 45 Harbola, U., and Shankar P. Das, 2002, Model for viscoelasticity in a binary mixture: Journal of Chemical Physics 117, 9844.

- 46. Harbola, U., and Shankar P. Das, 2002, Dynamic Transition in a Two-component Fluid in the Supercooled state: Phase Transitions 75, 451-464.
- 47 Kaur, C., and Shankar P. Das, 2002, Thermodynamics Properties of Inhomogeneous Structures in

Supercooled Liquids: Phase Transitions 75, 465-475.

- 48. Harbola, U., and Shankar P. Das, 2003, Dynamic Transition in a Binary Liquid and Its Dependence on the Mass-Ratio: Results from a Self Consistent Mode Coupling Model: Journal of Statistical Physics 112, 1109.
- 49. Kaur, C., and Shankar P. Das, 2002, Complexity in the Structure and Dynamics of a Metastable Liquid: Proceeding of Department of Atomic Energy Solid State Physics Symposium, India, 45, 624.
- 50. Harbola, U., and Shankar P. Das, 2003, Secondary Relaxation in a Supercooled Binary mixture: International Journal of Modern Physics B 17, 2395.
- 51. Kaur, C., and Shankar P. Das , 2003, Effect of attractive interactions on tagged particle dynamics:

Journal of Physics: Condensed Matter 15, 4657.

- 52. Kaur, C., and Shankar P. Das, 2003, Tagged particle motion in a dense liquid: Feedback effects from the collective dynamics: Physical Review E, 67 051505.
- 53. Harbola, U., C. Kaur and Shankar P. Das, 2003, Comment on "Universal Scaling Laws of Diffusion in a Binary Fluid Mixture": Physical Review Letters 91, 229601.
- 54. Kaur, C., and Shankar P. Das, 2003, Static and dynamical heterogeneities in supercooled liquids: Physica A 318, 121. Proceedings STAT PHYS IV, KOLKATA.
- 55. Harbola, U., and Shankar P. Das, 2004, A Simple Model for Dynamic Heterogeneities in a Supercooled Liquid: International Journal of Modern Physics B 18, 1299.
- 56. Das, Shankar P., 2004, Mode-coupling theory and the glass transition in supercooled liquids: Reviews of Modern Physics 76, 785-849.
- 57. Singh, S.P., C. Kaur and Shankar P. Das, 2005, Optimum vacancy concentration in a crystal: Physical Review E 72, 021603.
- 58. Harbola, U., C. Kaur and Shankar P. Das, 2005, Nature of the entropy versus self-diffusivity plot for simple liquids: Journal of Chemical Physics 123, 034501.
- 59. Das, Shankar P., and U. Harbola, 2005, Structural Relaxation in a Binary Mixture: Progress of Theoretical Physics Supplement 157, 172.
- 60. Singh, Sunil P., and Shankar P. Das, 2006, Stability of amorphous structures with voids: Journal Non-Crystalline Solids 352, 4857.
- 61. Singh, S. P., and Shankar P. Das, 2007, A density functional model for the binary crystal of hard spheres with vacancies: Journal of Chemical Physics 126, 064507.
- 62. Singh, S. P., Shankar P. Das, 2007, Characteristic temperatures of glassy behavior in a simple liquid: Journal of Physics Condensed Matter 19, 246107.

- 63. Singh, S. P., and Shankar P. Das, 2007, Perturbation theory for classical solids with vacancy defects: Physical Review B 75, 144113.
- 64. Priya, M, and Shankar P. Das, 2007, Fragility and elastic behavior of a supercooled liquid: Physical Review E 76, 061501,
- 65. Sen Gupta, B., and Shankar P. Das, 2007, Glassy aging with modified Kohlrausch- Williams-Watts form: Physical Review E, 76,061502
- 66. Das, Shankar P., and S. P. Singh, 2007, Thermodynamic properties of imperfect solids near freezing point: Proceedings of CMDS11 held in Ecole des Mines, Paris, July 2007.
- 67. Sen Gupta, B., and Shankar P. Das, 2008, Nonlinear fluctuating hydrodynamics and aging in structural glassed, 2008, in Recent developments in nonlinear dynamics, ISBN 97881-7319-9417, Narosa 2008.
- 68. Priya, Madhu and Shankar P. Das, 2008, Elastic behavior in a supercooled liquid: A nonlinear hydrodynamic mddel.: in Recent developments in nonlinear dynamics, ISBN 97881-7319-9417, Narosa 2008.
- 69. Das Shankar P, and Gene F. Mazenko, 2009, Fluctuating Nonlinear Hydrodynamics does not support an Ergodic-Nonergodic Transition. Phys. Rev. E. 79, 021504 (2009)
- 70. Singh, S.P. and Shankar P. Das, 2009, Nonequilibrium dynamics of an amorphous solid, Phys. Rev. E 79, 031504, (2009). Book