List of Publications

Pankaj Mishra, Ph.D.

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41. Biplab Kumar Mandal, Moushila Bayen, Anupam Kumar and **Pankaj Mishra**
Pair correlations and freezing transitions in a two-dimensional system of tilted axially symmetric quadrupoles
Molecular Physics (2024)
DOI: 10.1080/00268976.2024.2394619

40. Sahire Azam Ansari, Pallabi Kundu and **Pankaj Mishra**
Density functional theory of freezing transition in a binary mixture of spheres and soft-ellipsoids
Liquid Crystals **51**, 1909-1925 (2024)
DOI: 10.1080/02678292.2024.2369956

39. Pallabi Kundu, Sahire Azam Ansari and **Pankaj Mishra**
Effect of the varying repulsive core of Gay-Berne pair potential on the structure and freezing transition in a two-dimensional system of soft ellipses
Liquid Crystals **50**, 2128-2143 (2023)
DOI:10.1080/02678292.2023.2256984

38. Sahire Azam Ansary, Shikha Dwivedi and **Pankaj Mishra**
Pair correlation functions and stability of nematic in a system of Gay-Berne ellipsoids doped with spherical colloids
Journal of Molecular Liquids **380**, 121795(2023)
DOI: 10.1016/j.molliq.2023.121795

37. Anupam Kumar and **Pankaj Mishra**
Structures and freezing transitions in two-dimensional colloids with tunable repulsive interactions
Fluid Phase Equilibria **568**, 113726(2023)
DOI: 10.1016/j.fluid.2023.113726

36. Pallabi Kundu, Jayashree Saha and **Pankaj Mishra**
Long-range decay of pair correlations and nematic ordering in a two-dimensional system of Gay-Berne mesogens
Fluid Phase Equilibria **549**, 113224 (2021)
DOI:10.1016/j.fluid.2021.113224

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34. Biplab Kumar Mondal and **Pankaj Mishra**
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Journal of Molecular Liquids **320**, 114416 (2020)
DOI: 10.1016/j.molliq.2020.114416

33. Biplab Kumar Mondal and **Pankaj Mishra**
Pair correlation function and freezing transitions in a two-dimensional system of model ultrasoft colloids
Molecular Physics **118** (2020)
DOI: 10.1080/00268976.2019.1706774

32. Pallabi Kundu, **Pankaj Mishra**, Anubha Jaiswal and Jokhan Ram
Structures and phase transition in a two-dimensional system of Gay-Berne molecules
Journal of Molecular Liquids **296**, 111769 (2019).

31. Anupam Kumar, Biplab Kumar Mandal, Sanat Kumar and **Pankaj Mishra**
Freezing transitions in a system of two-dimensional octupolar multipoles
Eur. Phys. J. E **40**:80 (2017)
DOI: 10.1140/epje/i2017-11572-x

30. Anupam Kumar, Sanat Kumar, Biplab Kumar Mandal and **Pankaj Mishra**
Fluid-triangular solid phase transitions in a system of two-dimensional nematic quadrupoles
Molecular Physics **115**, 3011-3023 (2017)
DOI: 10.1080/00268976.2017.1342008

29. Shikha Dwivedi and **Pankaj Mishra**
Density functional theory of freezing of a system of highly elongated ellipsoidal oligomer solutions
Phase Transitions **90**, 523-537 (2016).

28. Shikha Dwivedi, **Pankaj Mishra**, R. C. Singh, J. Ram
Tunable attractive interaction and the phase diagram of a system of Gay-Berne ellipsoids: A density functional approach
Journal of Molecular Liquids **222**, 1139-1147 (2016).

27. Mohd Azam, Vineet Kumar Rai and **Pankaj Mishra**
Enhanced frequency upconversion and non-colour tunability in Er^{3+}–Yb^{3+} *codoped* TeO_2–WO_3–Pb_3O_4

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Journal of Materials Science: Materials in Electronics **27**, 12633-12641 (2016).

26. **Pankaj Mishra**, Manjori Mukherjee and Sanat Kumar,
Phase diagram of two-dimensional binary Yukawa mixtures
Molecular Physics **114**, 741-756(2016).

25. Sanat Kumar, Manjori Mukherjee and **Pankaj Mishra**,
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24. Shikha Dwivedi, **Pankaj Mishra** and Jokhan Ram,
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23. Manjori Mukherjee, **Pankaj Mishra** and Hartmut Löwen,
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J. Phys.: Condens. Matter **26** 46101-46109 (2014).

22. Manjori Mukherjee, Sanat Kumar and **Pankaj Mishra**,
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21. Sanat Kumar, Manjori Mukherjee and **Pankaj Mishra**,
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Journal of Molecular Liquids **197**, 84-92 (2014).

20. Vineet Kumar Rai and **Pankaj Mishra**,
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17. **Pankaj Mishra** and Jokhan Ram
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16. **Pankaj Mishra**, Jokhan Ram and Yashwant Singh,
Freezing transitions in a fluid of long elongated molecules
J. Phys. Condens. Matter **16**, 1695 (2004).

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15. Moushila Bayen1, Anupam Kumar, **Pankaj Mishra**
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Journal of Physics: Conference Series**2663**, 012036 (2023). **(SCOPUS)**

14. K Nunia, M Bayen, S A Ansary, A Kumar, **Pankaj Mishra**
Static and Dynamic Properties of SPC/E Water Model
Journal of Physics: Conference Series**2663**, 012037 (2023). **(SCOPUS)**

13. Sahire Azam Ansary, and **Pankaj Mishra**
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12. Pallabi Kundu, and **Pankaj Mishra**
Simulation of Gay-Berne liquid crystal molecules confined to a plane
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11. Anupam Kumar, Biplab Kumar Mandal and **Pankaj Mishra**
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10. Biplab Kumar Mandal, Anupam Kumar and **Pankaj Mishra**
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9. Shikha Dwivedi, Anupam Kumar , S.N.S.Yadav , and **Pankaj Mishra**
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8. Manjori Mukherjee and **Pankaj Mishra**,
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6. **Pankaj Mishra**
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5. Manjori Mukherjee and **Pankaj Mishra**
   Structure of two-dimensional binary mixture of colloidal particles interacting via quadrupole-quadrupole interaction potential,
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3. Sanat Kumar, Anupam Kumar and **Pankaj Mishra**,
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