



# **Nanostructured Polymer Blends: Chapter 9. Nanostructured Liquid Crystals (Micro and Nano Technologies)**

*Goddeti Siva Mohan Reddy, Jaragula Jayaramudu, Kokkarachedu Varaprasad, Rotimi Sadiku, Shanavas  
Abdul Jailani, Blessing Atim Aderibigbe*

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Liquid crystals constitute a fascinating class of soft condensed matter characterized by the counterintuitive combination of fluidity and long-range order. Today liquid crystals are best known for their exceptionally successful application in flat panel displays, but they actually exhibit a plethora of unique and attractive properties that offer tremendous potential for fundamental science as well as innovative applications well beyond the realm of displays. This full breadth of the liquid crystalline state of matter is becoming increasingly recognized and numerous new and exciting lines of research are being opened up. In this chapter we look at these exciting developments, focusing primarily on the physics aspects of the new research thrusts, in which thermotropic as well as lyotropic liquid crystals often meet other types of soft matter, such as polymers and colloidal nano- or microparticle dispersions. Because the field is also of interest for researchers who may not have a liquid crystal background we begin with a concise introduction to the liquid crystalline state of matter and the key concepts of the research field. We then discuss nanostructured liquid crystals, followed by applications of nanostructured liquid crystals.

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