



Design and Applications of Nanostructured Polymer Blends and Nanocomposite Systems (Micro and Nano Technologies)

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Design and Applications of Nanostructured Polymer Blend and Nanocomposite Systems offers readers an intelligent, thorough introduction to the design and applications of this new generation of designer polymers with customized properties. The book assembles and covers, in a unified way, the state-of-the-art developments of this less explored type of material.

With a focus on nanostructured polymer blends, the book discusses the science of nanostructure formation and the potential performance benefits of nanostructured polymer blends and composites for applications across many sectors: electronics, coatings, adhesives, energy (photovoltaics), aerospace, automotive, and medical devices (biocompatible polymers). The book also describes the design, morphology, and structure of nanostructured polymer composites and blends to achieve specific properties.

- Covers all important information for designing and selecting the right nanostructured polymer system
- Provides specialized knowledge on self-repairing, nanofibre and nanostructured multiphase materials, as well as evaluation and testing of nanostructured polymer systems
- Serves as a reference guide for development of new products in industries ranging from electronics, coatings, and energy, to transport and medical applications
- Describes the design, morphology, and structure of nanostructured polymer composites and blends to achieve specific properties

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Editorial Review

Review

"...a very good summary of the present state of the art and gives the reader the information necessary to dig deeper into each topic...recommended for those who want to learn about how others are blending polymers for the specific topics listed." --**IEEE Electrical Insulation Magazine, *Design and Applications of Nanostructured Polymer Blends and Nanocomposite Systems***

About the Author

Professor Thomas is the Director of the International and Interuniversity Centre for Nanoscience and Nanotechnology and full professor of Polymer Science and Engineering at the School of Chemical Sciences of Mahatma Gandhi University, Kottayam, Kerala, India. He is an outstanding leader with sustained international acclaims for his work in Polymer Science and Engineering, Polymer Nanocomposites, Elastomers, Polymer Blends, Interpenetrating Polymer Networks, Polymer Membranes, Green Composites and Nanocomposites, Nanomedicine and Green Nanotechnology. Dr. Thomas's ground breaking inventions in polymer nanocomposites, polymer blends, green bionanotechnological and nano-biomedical sciences, have made transformative differences in the development of new materials for automotive, space, housing and biomedical fields. Professor Thomas has received a number of national and international awards which include: Fellowship of the Royal Society of Chemistry, Distinguished Professorship from Josef Stefan Institute, Slovenia, MRSI medal, CRSI medal and Sukumar Maithy award. He is in the list of most productive researchers in India and holds a position of No.5. Professor Thomas has published over 720 peer reviewed research papers, reviews and book chapters. He has co-edited 54 books published by Royal Society, Wiley, Wood head, Elsevier, CRC Press, Springer, Nova etc. He is the inventor of 4 patents. The h index of Prof. Thomas is 78 and has more than 26811 citations. Prof. Thomas has delivered over 300 Plenary/Inaugural and Invited lectures in national/international meetings over 30 countries. He has already supervised 74 Ph.D theses.

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