

Advanced Polymeric Materials

Advanced Polymeric Materials - Advanced Polymer Materials Inc. is a Montreal based manufacturing company with R&D capability. We produce innovative and unique biodegradable and biocompatible polymer materials to fill the need for scientific advancement in pharmacy and medicine. The aim of this new compendium is to provide a solid understanding of the recent developments in advanced polymeric materials from macro- to nano-length scales. Composites are becoming more important because they can help to improve our quality of life, such as being put into service in flight vehicles, automobiles, boats, pipelines, buildings, roads, bridges, and dozens of other products, including medical products. Recent advances in polymer research have led to the generation of high quality materials for various applications in day to day life. The synthesis of new functional monomers has shown strong potential in generating novel polymer materials with improved properties.

Advanced Polymeric Materials includes fundamentals and numerous examples of polymer blend preparation and characterizations. The versatile applications of imprinted polymers, including selective extraction, separation, and sensing of metal ions in different media (such as water, wastewater, soil, and food samples), have opened a new frontier of research, enabling the investigation of many new scientific challenges.