

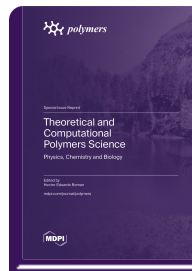
Special Issue Reprint

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The study of polymers has been central to numerous scientific and technological advancements over the past several decades. The primary aim of this reprint is to present, in a concise format, recent developments in polymer theory and its applications, as contributed by experts actively engaged in the study of polymer phenomena across condensed matter physics, chemistry, biology, and engineering. The contributions emphasize theoretical and simulation-based approaches to polymers in complex environments, whether as individual chains or in multi-polymer systems such as melts. The applications span a wide range of materials, including block copolymers, polymer brushes, thermoplastic resins, carbon fiber-reinforced resins, gels, rubbers, cross-linked polyethylene, polyelectrolytes, and proteins.

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