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Sommario/riassunto	This Reprint explores the possibilities of blending nanoparticles and polymers? You are encouraged to dive into the polymer composites world and analyze the intricacies of nanomaterials and their influence on polymers. This Reprint uncovers the synergy between nanomaterials and polymers and their application in the field of engineering. The peer-reviewed articles in this Reprint present insights into the analysis of new advancements in nanocomposites, synthesizing techniques, interfacial interactions, and mechanical and thermal characterization.