

Preface

The special issue is dedicated to research results in applied materials science and materials processing technologies in modern manufacturing.

Synthesis methods and sensory performance of materials for applications in sensors and biosensors and analysis of characteristics and methods of production materials for use in biomedical practice are the themes of the first two chapters.

The next two chapters are devoted to the analysis of synthesis procedures, internal structure, and mechanical and exploitation properties of advanced bio-based and conventional polymer and composite materials. Biodegradability and pre-processing of biocomponents for the improving mechanical properties of final polymers and composites are the accented topics of these chapters.

This special edition will interest many engineers and researchers in materials science, machinery, biomedical engineering and sensor design.