

# Preface

This special edition presented to the readers' attention is dedicated to research results related to advanced materials and materials processing technologies.

The first chapter contains articles that reflect the latest investigations and technological solutions in the area of high-performance concrete production.

Mechanical properties of luffa fiber reinforced recycled polymer composite, analysis of fiberglass laminate behaviour under tensile load, assembled under different humidity conditions, and investigation of carbon-polymer composite paints electromagnetic shielding are topics of the second chapter.

The next two chapters include articles on the results of the designing of micro/nano-structured white organic light-emitting diodes for lighting and the investigation of the thermal performance of some types of heat transfer fluids.

This special edition will be useful to a wide range of engineers whose activity is related to construction, machinery, optoelectronics and thermal engineering.