

# Preface

This special edition guides the research results of materials science, engineering, and manufacturing technologies.

Chapter 1 is dedicated to structural materials such as steel and alloys, delving into the analysis of their structural and mechanical properties, processing technologies and innovative application methods.

Chapter 2 discusses additive technologies - transformative technologies revolutionising modern design and production processes, emphasising their integration with modern materials.

Chapter 3 focuses on the characterisations of some clay types from Sri Lanka for cost-effective wastewater treatments and the investigation of coalescence dynamics of oil droplets on an air-water interface driven by surface waves.

The presented special edition will be useful to many specialists in materials science, processing technologies and chemical engineering.