

## Preface

This special edition offers the results of properties exploration of some functional and structural materials, and various types of concrete.

Chapter 1: Functional Materials investigates the class of materials engineered for specific applications and delves into their unique properties and innovative synthesis technologies.

Chapter 2: Steel and Alloys provides results of an in-depth examination of fundamental characteristics, processing techniques, and performance attributes of various steel types and their alloys, highlighting their versatility and critical role in machinery applications.

Chapter 3: Concrete Technologies examines the latest advancements in evolving methodologies in concrete production and applications. This chapter investigates operational characteristics and innovative techniques of component modifications, and relevant sustainable practices shaping the future in green concrete production and application.

This special issue aims to provide engineers and researchers with valuable insights into the fundamental properties, ways of applications, and technological innovations driving the field of materials science and engineering.