

Preface

This special edition presents a focused collection of research highlighting recent advances in materials science and engineering, with particular emphasis on functional performance, sustainable technologies, and efficient use in engineering practice. The contributions reflect interdisciplinary efforts to develop innovative materials and technological approaches that support modern industrial and environmental applications.

The chapters cover functional materials, ceramics, materials and equipment for electro- and photocatalysis, engineering measurements, and green concrete. Together, they address advanced material design, catalytic systems for energy and environmental solutions, accurate measurement techniques, and sustainable construction materials to reduce environmental impact.

This edition is intended to provide researchers, engineers, and practitioners with concise insights into emerging trends and practical developments across materials science, energy technologies, and sustainable engineering.