

# Preface

The presented special edition is dedicated to actual issues of development and applications of modern sustainable materials in construction and industry.

The first chapter contains articles that reflect the latest research results in the area of green and advanced building materials. The issue of utilisation construction and not only construction waste by using it as replacements for traditional components in concrete and other building materials is becoming more relevant. This approach, simultaneously with the use of natural components (natural fibers, volcanic slag, etc.), allows to expand the range of building materials and prevent damage to the environment due to carbon emissions during the building materials' production and the accumulation of solid industrial waste.

Highly effective composite materials with reinforcing from natural materials, carbon fibers, epoxy resin, etc., are analysed in the second chapter.

The last chapter is dedicated to the synthesis, analysis of functional properties and possible application methods for some functional nanomaterials.

This collection will be helpful to many specialists in building materials, composites and functional nanomaterials.