

Preface

In the light of global trends, great emphasis is placed on innovation in materials research and technology in close connection with environmental protection, in particular in relation to climate change mitigation and the protection of natural resources.

Innovations in the development of building materials aim at extending the life of materials, improving their functional properties, developing targeted intelligent materials, and in line with the circular economy, developing waste-based materials. A significant factor is also the mitigation of direct negative environmental impacts of materials and buildings with an emphasis on a safe and healthy indoor environment.

This special issue is aimed at the advances in engineering science with a special attention to the building materials and materials for environmental applications. Main topics include use of alternative raw materials in building materials production, evaluation of the properties and safety of building materials, impacts of buildings and materials on the environment including indoor air, life cycle assessment of materials (LCA), quality of soil materials, and environmental applications of various materials. This issue provides an integrated view of the trends in the development of environmentally friendly materials and solving the problems associated with the achievement of sustainability.