

## **Preface**

This special edition has presented a series of the latest research results in structural materials for machinery and construction, nanomaterials and nanotechnologies, technologies and materials for chemical production.

The thermodynamic calculation of cellular glass production, the hydrogen production from waste aluminium foil, the dip-coating method for thin film deposition, and nanomaterials and nanotechnologies are analysed in the first two chapters.

The following two parts are dedicated to analysing some biomaterials' properties and technologies' peculiarities of structural metal processing.

The last chapter contains investigations in the field of building materials. Here presented an overview of self-healing concretes and a performance evaluation of extracted asphalt binders from field cores containing recycled components.

Articles will be helpful to researchers and specialists in machinery, chemical production and civil engineering.