

Preface

In this special topic edition, readers can find the latest research results in materials science and technologies of materials synthesis and processing.

The first chapter is devoted to the analysis and study of structural materials' properties (steel, various alloys and composites) and technologies of their machining. Some articles describe the choice of optimal processing parameters.

The second chapter contains papers on the study properties of materials which can be used in biomedical practice. Biocompatible metals and ceramic materials, special coatings for dentistry and prosthetics are the subjects of this book part.

The last chapter includes articles on waste recycling and biomass processing technologies. Here, research results in electronic waste recycling, metal bioleaching of used lithium-ion batteries by using acid mine drainage and more are presented.

This edition will be helpful to many researchers and engineers.