

Preface

This special issue includes results of research and engineering developments in the area of applied materials and technologies for machinery, biomedical application, additive production and power electronics.

Composite materials of wide application, hydroxyapatite and bioactive glasses for bone treatment and nanofibers for biomedical goals, and functional and special materials for use in 3D printing, sensors, etc. are topics of the first three chapters of this edition.

The last section is devoted to modern issues in the area of silicon carbide metal-oxide semiconductors such as improving properties of the layered interface in the semiconductor devices, passivation and doping of semiconductor surfaces, etc.

The special edition will be useful to engineers whose activity is related to the research and development of composite materials, biomaterials and the production of power electronic devices.