

Preface

This special article collection is devoted to actual issues in developing tools and equipment parts for materials processing technologies, electrochemical engineering and some achievements in the creation of bio-based materials and waste treatment.

Analysis of technological parameters and performance of tools and equipment parts for additive manufacturing, weld seam geometrical evaluation and hole circularity after laminate drilling and other research results for the optimal tools and technological equipment parts design are presented in the first chapter.

The second chapter contains research results in applied electrochemistry including the corrosion of metal and metal matrix composites and the design of a disposable electrochemical sensor for the quantification of tyramine.

The last chapter is devoted to issues of biocomposite materials creation, analysis of their properties and possible methods of applications. Some waste treatment technologies are also investigated here.

The special edition will be useful to specialists in machinery and technologies of materials processing, designing of bio-based materials and waste treatment.