



Preface

This special issue of the *Proceedings of the Estonian Academy of Sciences* contains 12 papers on materials engineering contributed to the conference Modern Materials and Manufacturing (MMM2019) held in Tallinn, Estonia, on 23–26 April 2019. Other accepted papers of the MMM2019 are published in a special issue of *Key Engineering Materials*.

The conference on modern materials and manufacturing is an international forum focused on engineering materials and industrial engineering and tribology. It brings together materials and manufacturing experts from universities and industry. The conference encourages new collaborations between partners not only from academia but also from national competence centres and industry.

Due to the close cooperation of materials scientists, materials manufacturers, and processors and subsequent networking opportunities, this event in 2019 was held jointly with the 12th International DAAAM Baltic Conference and the 27th International Baltic Conference BALTMATTRIB. This event has achieved worldwide

interest and active participation by researchers from national and global engineering science communities.

The technical programme of the MMM2019 contains presentations from university scientists, industrial experts, and PhD students in important areas of materials engineering as well as materials processing technologies with particular emphasis on the current trends in the research, development, and application of advanced materials.

The current special issue of the *Proceedings of the Estonian Academy of Sciences* publishes selected papers prepared with participation of PhD students. The focus of this issue is materials science, materials engineering, surface engineering, and tribological behaviour of materials.

The organizing committee believe that this issue will be a valuable resource not only for the participants of the MMM2019 conference but also for the whole research community in the field of materials and industrial engineering.

Priit Kulu
Guest Editor