

Special Issue

Application of Alloys in Transport

Message from the Guest Editors

The globalization of human development requires increasing the efficiency of transport systems as a whole (infrastructure, vehicles, passengers, and cargo) as well as that of its individual components. Much attention is paid to the various types of vehicles and to the transportation process itself. An intensive development of various types of vehicles and elements of the transport infrastructure requires the use of new materials to reduce the weight of transport structures, ensure high strength and manufacturability, and thereby increase the safety of both the vehicle and the infrastructure element. A special place is occupied by the development of 3-D technology for printing parts and assemblies, which increases the efficiency of using new alloys and provides the necessary reliability and wear resistance of transport systems. Surface nanostructuring of parts and the creation of new coatings and lubrication systems can enhance the durability of vehicles and extend their service life and reliability. We also invite you to submit articles focused on improving ergonomics and creating a comfortable and safe environment for humans using modern alloys and coatings.

Guest Editors

Prof. Dr. Olegas Prentkovskis

Prof. Dr. Pavlo Maruschak

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Deadline for manuscript submissions

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About the Journal

Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

Editors-in-Chief

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