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Advanced Materials and Technologies for Aviation and Automotive Applications

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Message from the Guest Editor

Currently, the development of technologies and materials used in the construction of internal combustion engines for aviation and vehicles is of great importance in terms of the correct overall efficiency of these engines. Increasing thermal loads of engines in order to increase their operational performance causes problems with their durability and accelerated wear. The aim of this Special Issue is to present the latest research results in the field of the construction and design of internal combustion engines. There is a great need to modernize the current state of knowledge in the field of operation, wear processes, technologies, base materials, and coatings used in the construction of internal combustion engine components. Materials, coatings, and physical phenomena occurring in aircraft and car engines constitute a very wide range of knowledge. Therefore, I encourage you to publish materials from simulation and experimental research in the field of new material technologies, tribology, thermodynamics, fluid mechanics, and dynamics of internal combustion engines. I also encourage you to publish materials related to the exhaust gas cleaning systems of aircraft and car engines.

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Message from the Editor-in-Chief

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