



## Recent Advanced in Coatings on Iron Alloys

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### Message from the Guest Editors

The scope of this special issue "Recent Advanced in Coatings on Iron Alloys" covers research on the latest developments in the field of coatings production, structural characteristics, research on properties and physicochemical phenomena occurring during the formation of coatings on iron alloys. The main coating technologies include hot-dip galvanizing, thermal spraying, electrogalvanizing, organic coatings, electroless coatings, conversion coatings, as well as PVD and CVD methods and others. The scope of the application of the coatings includes coatings resistant to electrochemical and high-temperature corrosion, coatings resistant to erosion and tribological wear, as well as coatings for operation in particularly difficult conditions, such as coatings resistant to liquid metals. The production of coatings should refer to iron alloys such as ordinary quality carbon steels, alloy steels, cast steel, various grades of cast iron, but also special-purpose steels, such as reinforcement steel, high-strength steels after heat treatment, etc.

We invite all researchers interested in the technology of producing coatings on iron alloys to present their results.

Dr. Henryk Kania

Guest Editor





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## Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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