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## **Structure and Mechanical Properties of Alloys**

Guest Editor:

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# **Message from the Guest Editor**

Dear Colleagues,

The dynamic industry development is demanding higher and higher requirements for present constructions and elements in relation to the anticipated working conditions and existing real needs, thus supporting as well as directing the progress in the field of material engineering and favouring the production, testing, and analysis of new materials. Modern, advanced engineering materials allow for the design of more advanced, safe-to-use, and energysaving constructions, characterised by significantly better corrosion resistance and higher mechanical strength compared to the materials used until Contemporary trends in material engineering related to metallic materials concern mainly the reduction of their grain size, structure modifications using thermal, chemical. and mechanical treatment, as well as the decrease of the specific weight of the finished elements by using light metal alloys such as those containing aluminium, magnesium, and titanium. This Special Issue will focus on the influence of special treatment processes on the evolution of the microstructure and the properties of metal alloys.

Prof. Dr. Tomasz A. Tański Guest Editor













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