



*alloys*

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## Transport, Electrical and Magnetic Properties of Intermetallic Alloys

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Deadline for manuscript  
submissions:

**closed (31 October 2022)**

### Message from the Guest Editors

Dear Colleagues,

Intermetallic alloys are always a fascinating subject regarding the study of different quantum mechanical effects. Their preparation—especially with emergent behavior—is the first step to the forefront development of material engineering, taking into account the newest findings in quantum mechanics. Intermetallic alloys could be used to study, for example, the quantum criticality and how to reach it by tuning different parameters. They are also important for finding the best material with good magnetocaloric properties. The main aim is to find new materials which are eco-friendly and able to substitute the gases used in conventional refrigerators near room temperature. On the other hand, finding new materials with this effect is important due to the needs of space research. Another example is finding materials which are applicable in information technologies, where magnetoresistance is very important.

Therefore, in this Special Issue we welcome articles that focus on the transport, electric and magnetic properties of intermetallic alloys, which can be prepared by different methods, and their influence on the final products' performance.



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**Special** Issue