



Properties and Application of Alloys Prepared by Mechanical Alloying and Spark Plasma Sintering

Guest Editor:

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Message from the Guest Editor

Among the formation of solid solutions a tremendous increase in the lattice defects actively also contributes to the overall strengthening. Besides, the process itself might result in a formation of finely dispersed oxidic particles, further strengthening the material at laboratory and elevated temperatures. However, these positive characteristics are partially offset by undesirable contamination of the alloy with the material from milling elements and the jar itself. Due to this, an optimal mix between process conditions, e.g. duration, speed, ball-to-powder weight ratio, and the consequential compaction via SPS shall be established to produce materials with superior properties.

This Special Issue focuses on the materials prepared by a combination of mechanical alloying and spark plasma sintering that retains the beneficial character of the microstructure. We kindly invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.





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Message from the Editor-in-Chief

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