

Topical Collection

Spark-Plasma Sintering and Related Field-Assisted Powder Consolidation Technologies

Message from the Collection Editor

Spark-plasma sintering (SPS) and other field-assisted powder consolidation approaches provide remarkable capabilities to the processing of materials into configurations previously unattainable. Of particular significance is the possibility of using very fast heating rates, which, coupled with the field-assisted mass transport, stand behind the purported ability to achieve high densities during consolidation and to maintain the nanostructure of consolidated materials via these techniques. It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.

Keywords

- sintering
- field-assisted
- current-assisted
- spark-plasma
- powder consolidation
- cermics
- metal powder
- desifification

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Materials

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Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



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