Special Issue

Sintering Process of Metallic Materials

Message from the Guest Editor

Sintering of metallic powders is of significant interest for the P/M community. The process itself has been practised for thousands of years. Its commercial use, however, began to flourish at the beginning of the 20th century as a consequence of increasing interest in new materials that were not possible to obtain using any other technique. Examples include tungsten lamp filaments and heavy alloys, metallic filters, cemented carbides, self-lubricating bearings, copper–graphite electrical contacts, diamond-impregnated tools, etc. Today, sintering is employed in a diverse range of products. The reason for using P/M technology is that it can be cost competitive and may offer the possibility of fabricating materials with unusual microstructures, nonequilibrium phases and unique properties. Submissions on both practical aspects and theoretical topics related to pressure-less and pressure-assisted consolidation, laser and electron beam melting, sintering furnaces and atmospheres, digital modelling, and new sintered materials are invited to this Issue.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2021)

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/39869

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Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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