



Powder Metallurgy and Additive Manufacturing/3D Printing of Materials

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Message from the Guest Editor

Powder metallurgy (PM) and related processes, including additive manufacturing (AM)/3D printing, are revolutionizing the manufacturing sector, especially for the production of the metallic components with added functionalities. Not only can they fabricate near-net-shaped components, but they can also help in the materials saving and weight reduction of components in the automobile and aerospace sectors, and help in reducing fuel consumption and promoting a greener environment.

Both PM and AM are undergoing rapid development, with new improvements and innovations taking place rapidly. However, they still face several industrial challenges, like process capabilities, and material aspects including microstructure formation and properties and the process cycle. It is, therefore, necessary to devote attention to focus research and development activities in these fields, including PM and AM, to promote the industrialization of these processes and new technologies. This includes the production of powder, the properties of powder, AM process developments, the design of alloys for the AM process, and the post-processing of the components.





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Message from the Editor-in-Chief

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