

Special Issue

Additive Manufacturing of Materials

Message from the Guest Editors

Additive manufacturing, also known as 3D Printing, dates back to the mid-1980s. The first commercial additive manufacturing machine (SLA-1) was sold in 1988 by 3D Systems. Since then, the research results of thousands of researchers and engineers who are in love with 3D printing have found their way into the fields of aircraft engineering, rocket science, propulsion systems, medical products, microcircuits, the food industry, etc. Additive technologies have made it possible to create parts of a new, more complex shape that could not be made using traditional production methods (stamping, molding, milling and casting) from polymers, ceramics and metals. Research into improving the properties of materials already in use, as well as introducing completely new materials into additive technologies is of particular importance as a pillar of further development as a response to the current economic needs of rapid and low-cost manufacturing. This Special Issue is the right place to present current needs and opportunities for future improvements or new materials for additive manufacturing.

Guest Editors

Dr. Anton Agapovichev

Dr. Anton Sotov

Dr. Aleksandr I. Khaymovich

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Micromachines
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
micromachines@mdpi.com

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Editor-in-Chief

Prof. Dr. Ai-Qun Liu

1. Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China
2. School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

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