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Additive Manufacturing of Ceramic-based Materials

Guest Editors:

Dr. Xiangyang Dong

Mechanical and Aerospace
Engineering, Missouri University
of Science and Technology, Rolla,
MO 65409, USA

Dr. Xuan Song

Department of Industrial and
Systems Engineering, University
of Iowa, Iowa City, IA 52242, USA

Dr. Lei Chen

Department of Mechanical
Engineering, University of
Michigan (UM)-Dearborn,
Dearborn, MI 48128, USA

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Message from the Guest Editors

Dear Colleagues,

Additive manufacturing (AM) or 3D printing is a fast-growing technique for fabricating parts layer-by-layer directly from 3D digital models. AM has tremendous potential for producing high-value, complex, individually customized parts. As technological progress continues in the field, it can be expected that AM technologies will have an extraordinary impact on the industrial production of ceramic components, and will open up new possibilities for ceramics uses and markets.

This Special Issue will highlight recent advances in the additive manufacturing of ceramic-based materials. Full-length research articles, reviews, and short communications are encouraged. The topics of interest include but are not limited to:

1. Established ceramic AM techniques;
2. Hybrid ceramic AM processes, and novel approaches;
3. Computational and experimental investigations of process–microstructure–property relations;
4. Data-driven process optimization and quality control of AM ceramic-based components;
5. Multi-material additive manufacturing;
6. Novel applications of AM ceramic-based components.



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Guest Editors

Special Issue



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Editor-in-Chief

Prof. Dr. Gilbert Fantozzi

INSA-Lyon, MATEIS Laboratory
UMR CNRS 5510, 69621
Villeurbanne, France

Message from the Editor-in-Chief

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Ceramics Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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