

Special Issue

Durability of Additively Manufactured Metals

Message from the Guest Editor

Metal additive manufacturing is one of the most important research fields that has recently captured the interest of industrial and academic communities, due to the possibility to produce near net shape products with higher quality. This Special Issue aims to improve the knowledge regarding degradation resistance of the additively manufactured alloys under different environmental conditions, mainly in terms of corrosion, wear, and fatigue and, in addition, in combination with the previously mentioned degradation mechanisms. In particular, studies on the effect of surface and heat treatments on AM alloy performance are warmly welcome. No less important is the effect of surface finishing, as produced by surface treatments or by the simple control of process parameters, on the previously listed degradation mechanisms. Of equal importance is the correlation of internal/subsurface defects to these performances (inclusions, voids, etc.). In conclusion, the durability of reticular structures, easily produced by some AM techniques, are of great interest for this issue.

Guest Editor

Dr. Alex Lanzutti

Dipartimento Politecnico di Ingegneria e Architettura, Università degli Studi di Udine, Via delle scienze 208, 33100 Udine, Italy

Deadline for manuscript submissions

closed (31 October 2021)



Metals

an Open Access Journal
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Impact Factor 2.5
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Metals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

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About the Journal

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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Prof. Dr. Hugo F. Lopez

Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

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