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Anisotropic/ Isotropic Microstructural Design in Additive Manufacturing

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Message from the Guest Editors

The additive manufacturing (AM) techniques, feasible for use with customized, small-scale production, are emerging and being highlighted as a replacement for traditional manufacturing technologies.

Despite the many advantages of AM methods, including design flexibility, producing functionally graded parts, and a significantly lower buy-to-fly ratio, aspects such as the development of high residual stresses and, possibly, the formation of detrimental phases and defects in additively manufactured parts are a matter of concern. Thus, further research is required to overcome many challenges AM faces today.

This Special Issue aims at providing new ideas and presenting the latest advances on AM of metallic materials, with a particular emphasis on anisotropic/ isotropic microstructural design to optimize structural/ functional properties and promote the applications of AM.

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Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

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