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Additive Manufacturing (AM) for Advanced Materials and Structures: Green and Intelligent Development Trend Volume II

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Message from the Guest Editors

Additive manufacturing (AM) as an advanced manufacturing technology has overturned the traditional concept of subtractive manufacturing. By layering materials in a stack, AM technology enables the manufacturing of metal parts in virtually any shape, offering extensive design flexibility for advanced materials and structures. To propel AM technology towards high efficiency, precision, performance, and cost-effectiveness while embracing green and intelligent approaches, a range of advanced design and manufacturing technologies require pressing breakthroughs. These encompass the exploration of novel materials and structures, the optimization of process systems, understanding defect formation mechanisms, precise control over microstructures, the advancement of process monitoring and control techniques, etc. Urgent advancements in these areas are imperative to driving the evolution of AM technology.

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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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