

Special Issue

Processing Metallic Alloys

Message from the Guest Editors

With the requirements of carbon peaking and carbon neutrality, the demand for clean energy is increasing, and related industries have developed rapidly, such as hydrogen energy, nuclear energy, etc. During the preparation, storage, and transportation of these clean energy sources, a large number of stainless steel thick plates with excellent corrosion resistance and mechanical properties is required. Developing stainless steel thick plates with excellent comprehensive performance for clean energy has become one of the current important research hotspots. Research has shown that grain boundary characteristics and microstructure have a significant impact on the mechanical properties or corrosion resistance of stainless steel thick plates. The processing technology is closely related to the grain boundary characteristics and microstructure of the material. It is necessary to study the relationship between processing technology, microstructure, and properties in order to develop stainless steel thick plates with excellent corrosion resistance and mechanical properties.

Guest Editors

Dr. Fei Gao

Key Laboratory of Lightweight Structural Materials, Liaoning Province, School of Materials Science and Engineering, Northeastern University, Shenyang 110819, China

Dr. Quanqiang Shi

Institute of Metal Research, Chinese Academy of Sciences, Shenyang 110016, China

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

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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.

Editor-in-Chief

Prof. Dr. Alessandra Toncelli
Department of Physics, University of Pisa, 56126 Pisa, PI, Italy

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