



Metals Characterization: Novel Methods, Techniques, and Instruments

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Message from the Guest Editor

Increasing demand on high-quality products combined with the increasing trends toward more ecofriendly production processes, minimum use of natural resources, and digitalization practices have encouraged research efforts focusing on the development of advanced characterization techniques able to provide a fast and reliable overview of the metals properties and direct their optimization. This Special Issue invites studies dealing with the design of completely new or upgraded characterization techniques for the structural, morphological, and chemical analysis of metals, the operation of novel instrumentation, and the evaluation of newly developed metal-based materials regarding their optic, electric, thermal, and mechanical properties. Specifically, it will emphasize on single or combined X-ray, electron microscopy, spectroscopy, and thermal analysis methods used for the determination of the nanoscale characteristics of metals and alloys with respect to their macroscopic collective properties. The Special Issue will also welcome selected papers on related topics from “The International Conference on Raw Materials and Circular Economy” (RawMat2021, www.rawmat2021.gr)





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Message from the Editor-in-Chief

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