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New Progress on Electron Microscopies for Characterizing Microstructures

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Deadline for manuscript
submissions:

closed (1 July 2020)

Message from the Guest Editor

Dear Colleagues,

Mechanical tests followed by microstructural investigations bring valuable information for understanding the mechanical performance of materials. Electron microscopy is one of the most important techniques for analyzing deformation microstructures. Two kinds of electron microscopes bring complementary information: at the macro/meso-scale, scanning electron microscopy (SEM), and at micro/nano-scale, transmission electron microscopy (TEM).

Following the breakthroughs in materials science, the constant improvement of electron microscopy techniques tend to make them essential for bringing valuable information to understand the mechanical behavior of materials. This Special Issue aims to report some of the significant progress in the field of electron microscopy. Articles will cover major aspects of materials science: the development of revolutionary electron microscopy techniques, fundamental physical phenomena and of course their applications in materials science.



mdpi.com/si/21280

Special Issue



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Message from the Editor-in-Chief

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