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Characterization of Nanostructures and Heterostructures

Guest Editor:

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Deadline for manuscript submissions:
closed (31 December 2021)

Message from the Guest Editor

Dear Colleagues,

The tremendous advances in material science that we have witnessed in recent decades are accompanied with advances in both preparation and characterization of materials on the nanoscale. Nanostructures and heterostructures often show modified, sometimes even opposite properties when compared to the same materials in bulk. The characterization of devices based on nanoscale materials ranges from detecting macroscopic phenomena (voltage, tunneling current or magnetization) to microscopic characterization with scanning microscopy (STM, AFM, etc.) and electron microscopy (SEM, TEM, STEM). On the other hand, nanoparticles are also used extensively in medicine applications for drug delivery, diagnostics, wound treatment or cell repair. For devices using nanorods or core–shell particles, microscopic characterization is an essential tool.

This Special Issue is dedicated to the characterization of materials that are confined to the nanometric scale, and for the audience ranging from spintronics to drug design.

It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.

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Message from the Editor-in-Chief

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