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Nano Mechanical Testing of Materials and Devices

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Deadline for manuscript
submissions:

closed (20 May 2020)

Message from the Guest Editors

Dear Colleagues,

We warmly invite you to submit papers for publication, containing original research describing advances in nano-mechanical testing of materials or devices, and/or the research and development of nano-enabled materials. This may include, among other things:

- Nano-scale measurements of materials or the measured properties of nanomaterials (such as: mechanical, tribological, fatigue); particularly welcome are reports of new properties or properties with a clear route to exploitation.
- New or improved models, test methods, test protocols, and or testing devices applicable to small volume testing or the testing of nanomaterials.
- Research and development into defining and overcoming the challenges of predicting larger-scale properties or performance from test results obtained at smaller length-scales; including investigations of plasticity and other size effects and the development of length-scale enabled constitutive models.



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Special Issue



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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal-organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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