



Gradient Nanograined Materials

Guest Editor:

Prof. Dr. Xiaolei Wu

State Key Laboratory of
Nonlinear Mechanics Institute of
Mechanics, Chinese Academy of
Sciences, Beijing 100190, China

Deadline for manuscript
submissions:

closed (30 June 2021)

Message from the Guest Editor

This Special Issue aims to elucidate the state-of-art of this growing research field from a fundamental and application perspective. Several key issues on mechanical properties/performance and mechanism of GNG materials, including strength-ductility synergy, strain hardening, fatigue and fracture behaviors, friction behavior, plastic deformation mechanism and stabilities. Experimental studies combined with simulation and modeling are focusing on revealing the underlying mechanism of gradient structures. Research papers dealing with the fabrication and the properties of GNG materials and of their structural use are welcomed.





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Editor-in-Chief

Prof. Dr. Shirley Chiang

Department of Physics, University
of California Davis, One Shields
Avenue, Davis, CA 95616-5270,
USA

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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Nanomaterials Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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