

Special Issue

Advanced Nanomaterials in Flexible and Stretchable Electronic/Optoelectronic Devices

Message from the Guest Editors

Nanomaterials are materials with one or more dimensions falling into the nanometer scale. The dramatic size shrinkage renders them new electronic, magnetic, optical and thermoelectric properties. As modern society gradually steps into the intelligent age, nanomaterials will have broad application potential in a flexible display, electronic skin, wearable electronics, artificial nervous systems, human-machine interactions, etc. This Special Issue will show the latest research progresses and challenges of nanomaterials developed for flexible and stretchable electronic/optoelectronic devices from the perspective of the material syntheses, device structures and applications. We encourage submissions on synthesis and design of functional nanomaterials (such as colloidal CdSe or InP QDs, perovskite QDs, etc.), and study of device engineering and device physics. In addition, applications of advanced nanomaterials in light emitting diodes, photodetectors, flexible batteries and wearable sensors are welcome.

Guest Editors

Prof. Dr. Shuming Chen

Dr. Peili Gao

Dr. Heng Zhang

Deadline for manuscript submissions

closed (10 January 2024)



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Nanomaterials
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

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About the Journal

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.

Editor-in-Chief

Prof. Dr. Shirley Chiang
Department of Physics, University of California Davis, One Shields
Avenue, Davis, CA 95616-5270, USA

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