Special Issue

Flexible Nanocomposite Films: Synthesis and Applications

Message from the Guest Editors

Nanocomposite films with high flexibility and other outstanding properties demonstrate great potential in a wide range of applications, such as sensors, capacitors, solar cells, electromagnetic shields, thermal interface materials, actuators, and medical electrodes, etc. However, developing such nanocomposite films still faces great challenges in terms of repeatability and reliability, as well as the balance between flexibility and multifunctionality. Therefore, there is great interest in the development of novel strategies for design and synthesis of flexible nanocomposite films with multi-functional properties which can expand their applications in various fields. This Special Issue of *Nanomaterials* will present the current state-of-the-art in the synthesis and applications of flexible nanocomposite films. Full research papers, communications, and reviews are all welcome.

Guest Editors

Prof. Dr. Xianze Yin

College of Materials Science and Engineering, Wuhan Textile University, Wuhan 430200, China

Dr. Long Zheng

School of Materials Science and Engineering, Wuhan Textile University, Wuhan 430200, China

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

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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

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