Special Issue

Engineering Carbon-Based Nanostructures

Message from the Guest Editors

Engineering carbon-based nanostructures is essential to invariably surpass the vulnerabilities of the individual carbon nanoparticles such as graphene, fullerene, and carbon nanotubes. Constructing new building blocks of carbon-based nanostructures can achieve structurally dependent light-matter interactions and manipulate the electronics configuration and specific surface area in the fields of optoelectronics, energy generation and storage, and environmental technology. In this regard, carbon-based nanostructures can be achieved by manipulating intra/intermolecular interactions such as van der Waals forces, capillary forces, or external electric fields. Therefore, this Special Issue seeks highly valuable research papers and review articles that describe the construction of carbon-based nanostructures by novel design, fabrication, and modelling of 2D and 3D nanostructures in interdisciplinary fields such as skin electronics, optoelectronics devices, battery, supercapacitors, drug delivery, disease treatment, etc.

Guest Editors

Dr. Sejung Kim

School of Chemical Engineering, Jeonbuk National University, Jeonju 54896, Republic of Korea

Dr. Youngjun Song

Department of Nano-Bioengineering, College of Life Science and Bioengineering, Incheon National University, Incheon 22012, Republic of Korea

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

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Editor-in-Chief

Prof. Dr. Ai-Qun Liu
1. Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China
2. School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

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