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## Nanocomposites for Oxygen Reduction Reaction and Supercapacitor Applications

Guest Editor:

### Dr. Daehwan Park

1. Department of Engineering Chemistry, College of Engineering, Chungbuk National University, Cheongju, Chungbuk 28644, Republic of Korea

2. Department of Industrial Cosmetic Science, College of Bio-Health University System, Chungbuk National University, Cheongju, Chungbuk 28644, Republic of Korea

3. Department of Synchrotron Radiation Science and Technology, College of Bio-Health University System, Chungbuk National University, Cheongju, Chungbuk 28644, Republic of Korea

4. LANG SCIENCE Inc., Chungbuk National University, Cheongju, Chungbuk 28644, Republic of Korea

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### Message from the Guest Editor

The development of sustainable and efficient energy system based on nanomaterials and nanocomposites is one of the most crucial challenges to meet renewable energy demand and climate change response. This special issue covers the significance of advanced nanomaterials and nanocomposites for sustainable energy conversion and storage technologies related with oxygen reduction reaction and supercapacitor, including, but not limited to:

- energy storage and conversion
- nanomaterials synthesis and characterizations
- nanocomposites fabrication for energy devices
- photochemistry and electrochemistry
- water splitting
- oxygen reduction reaction and oxygen evolution reaction
- supercapacitor and battery
- hydrogen production and fuel cell technologies
- CO<sub>2</sub> capture and reduction for further utilization
- carbon and nanohybrid materials for renewable energy and sustainability
- nanocatalyst and catalysis for climate change-response technology



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# Special Issue



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### **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, Grosspeteranlage 5  
4052 Basel, Switzerland

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