Special Issue

Advances in Nanomaterials for Carbon Dioxide Reduction

Message from the Guest Editor

Under the background of the international Climate Conference, advocating energy conservation and emission reduction as well as the reduction of greenhouse gas emissions, the recycling of carbon dioxide is considered to be a top priority and urgent task. The reduction and utilization of carbon dioxide cannot be separated from the continuous research of materials chemistry. In order to assist and promote the research and development of materials in this field, we have organized this Special Issue, hoping to promote your scientific research investment in this field and the wide impact of the results. We are pleased to invite you to publish your latest research results in this Special Issue. Theoretical and experimental articles will be accepted, along with articles that deal with the synthesis of nanomaterials with CO2 capture and transformation activity, application technology and application scale of this kind of nanomaterials. It is hoped that the collected works will cover material chemistry and material physics, and promote more effective transformation and utilization of CO2 through the development of material science.

Guest Editor

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

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