

Special Issue

Natural and Engineered Clays: Two-Dimensional Nano-Building Blocks for Functional Nanomaterials

Message from the Guest Editor

Natural and engineered clays are widely studied in terms of exploring new industrial application fields as well as comprehending the fundamentals of their two-dimensional structures. Naturally occurring clays inherently have two-dimensional structures of which composition and physicochemical properties can be controlled variously. Engineered or synthesized clays could have more finely tuned physicochemical properties to load intended functionalities. I would especially like to take advantage of the 4th Asian Clay Conference (ACC-2020), which will be held in Pattaya, Thailand, from June 7 to 10, 2020, to expand communication among clay scientists from various fields. The conference is mainly organized by the Vidyasirimedhi Institute of Science and Technology, Thailand. Therefore, considering academic comprehension and industrial applications, the main goal of this Special Issue can be strongly supported by conference participants. However, I do not limit the contributors to this Special Issue to conference participants.

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.

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