Special Issue

Applications of Fractional Nanofluids in Chemical Processes

Message from the Guest Editors

Recently, mathematical modeling of nanofluids, representing a novel class of chemical processes that play a vital role in industries and environment, has been widely considered by researchers with attractive and useful applications. Usually, these models are represented in terms of traditional integer-order partial differential equations (PDEs). Note that the traditional PDEs cannot decode the complex behavior of physical chemical processes and memory effects. To address these defects, researchers have focused on fractional dynamic systems of fractional nonfluids in water-cleaning processes. See more information in https://www.mdpi.com/si/74199

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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.

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