Special Issue

Research and Application in Low-Dimensional Bionanomaterials

Message from the Guest Editor

Significant research attempts on nanofluids are being made in recent years owing to extraordinary thermodynamic properties. Nanofluids can be used to cool vehicle generators, air conditioners, high-flux equipment, washing machines, high-power microwave ovens, heavy-duty laser diode arrays, and a variety of welding devices. In addition, major developments in nanotechnology have open the potential of using magnetized nanoparticles treat brain tumors, pharmacological therapies, artificial heart surgery, artificial lungs, cancer therapy, etc. Advanced nanotechnology has proposed several helpful methods targeted at the interaction of nano-materials to raise fossil fuel use and alleviate environmental crises. The basic concept of these nano-materials with improved the thermophysical characteristics, which was eventually expanded through several researchers. Nanoliquid has the greatest thermal conductivity associated with the basis liquid. In the fields of industrial and engineering including the electronic cooling machines, nano-materials have a high potential for increasing heat transformation characteristics.

Guest Editor

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Deadline for manuscript submissions

closed (20 November 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/167986

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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