

Special Issue

Nanoparticles and Nanofluids for Energy Applications

Message from the Guest Editor

Energy consumption worldwide is constantly growing, and with it, there is a pressing need to develop new materials that can tackle this demand in a sustainable way. In the building sector, it is of the utmost importance that energy consumption can be counterbalanced with the generation of renewable energy, in situ. We live in a technological world, and in this reality, nanotechnology has a major role. In the energy area, nanoparticles can be found in, e.g., storage units, luminescent solar concentrators, smart windows, and heat transfer mechanisms. All of these can provide high input in society and in the construction of a sustainable energy future. Nanofluids, have a largely superior performance when compared to the currently employed heat transfer liquids. Another interesting application of nanoparticles is in luminescent solar concentrators (LSCs). These devices can potentially transform a building façade into an electricity power generator. As researchers, the possibility of creating a green, sustainable, future for generations to come is in our hands.

Guest Editor

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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