



## Photo Thermal Conversion and Pool Boiling Heat Transfer of Nanofluid

Guest Editor:

**Prof. Dr. Honghyun Cho**

Department of Mechanical  
Engineering, Chosun University,  
Gwangju, Korea

Deadline for manuscript  
submissions:

**closed (30 September 2022)**

### Message from the Guest Editor

Dear Colleagues,

The Guest Editors invite you to submit a Special Issue of *Energies* on the subject “Photo Thermal Conversion and Pool Boiling Heat Transfer of Nanofluids”. As the importance of renewable energy for replacing fossil fuels has become an issue in the world, the efficient use of energy regarding thermal systems and equipment is required, and thus the use of nanofluids for the increase of efficiency and heat transfer is emphasized. Nanofluids are a major way to improve the poor thermal properties of conventional working fluids such as water, oil, and antifreeze solution. In addition, they can be used in heat energy application fields (especially light-thermal conversion and boiling heat transfer in PTC, CPC, the direct absorption solar heat-collection system, heat pipes, heat exchangers, etc.) because they improve various heat transfer modes such as convection, boiling, and photo-thermal conversion. The Special Issue will focus on but is not limited to the utilization of light absorption and the boiling heat transfer of various nanofluids.





# energies



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Enrico Sciubba**

Department of Mechanical and  
Aerospace Engineering,  
University of Roma Sapienza, Via  
Eudossiana 18, 00184 Roma, Italy

## Message from the Editor-in-Chief

*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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:** CiteScore - Q1 (Control and Optimization)

## Contact Us

---

*Energies* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/energies](http://mdpi.com/journal/energies)  
[energies@mdpi.com](mailto:energies@mdpi.com)  
[X@energies\\_mdpi](https://twitter.com/energies_mdpi)