

## New Advancement of Computational Fluid Dynamics Modeling on Sustainable Renewable Energy Applications

Guest Editor:

### Dr. Nur Hassan

College of Engineering and  
Aviation, Central Queensland  
University, Cairns Square, Corner  
Abbott and Shields Streets,  
Cairns, QLD 4870, Australia

Deadline for manuscript  
submissions:

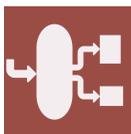
**closed (28 February 2023)**

### Message from the Guest Editor

A very significant prevalence of **Computational Fluid Dynamics (CFD)** has been detected during the last two decades regarding users and the number of applications. The advancement of numerical simulations is progressively encouraging to the current state of the art in many energy engineering applications. **CFD** has been recognised as a fundamental field for advancing research on energy applications such as power generation, combustion, wind energy, concentrated solar power, hydropower, gas and steam turbines, fuel cells, and many others. Even though a wide range of renewable energy devices can be benefited from CFD simulations.

The CFD tools enable engineers working in the renewable energy **industry** to understand the physical phenomena well and can be useful in the early design process by offering a full range of **analyses**. Engineers can effectively test and optimize products in less time and at a significantly lower cost by using a powerful tool such as CFD.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Giancarlo Cravotto

Department of Drug Science and  
Technology, University of Turin,  
Via P. Giuria 9, 10125 Turin, Italy

## Message from the Editor-in-Chief

*Processes* (ISSN 2227-9717) provides an advanced forum for process/system-related research in chemistry, biology, material, energy, environment, food, pharmaceutical, manufacturing and allied engineering fields. The journal publishes regular research papers, communications, letters, short notes and reviews. Our aim is to encourage researchers to publish their experimental, theoretical and computational results in as much detail as necessary. There is no restriction on paper length or number of figures and tables.

## 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, Inspec, AGRIS, and other databases.

**Journal Rank:** JCR - Q2 (*Engineering, Chemical*) / CiteScore - Q2 (*Chemical Engineering (miscellaneous)*)

## Contact Us

---

Processes Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

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

[mdpi.com/journal/processes](http://mdpi.com/journal/processes)  
[processes@mdpi.com](mailto:processes@mdpi.com)  
[X@Processes\\_MDPI](https://twitter.com/Processes_MDPI)