



an Open Access Journal by MDPI

The Applications of Computational Fluid Dynamics in Transport Phenomena

Guest Editors:

Dr. Yucheng Fu

Pacific Northwest National
Laboratory, Richland, WA 99352,
USA

Dr. Dewei Wang

Pacific Northwest National
Laboratory, Richland, WA 99352,
USA

Deadline for manuscript
submissions:

20 October 2024

Message from the Guest Editors

We are organizing this Special Issue, which aims to publish studies detailing novel CFD applications for studying transport phenomena. We invite original research and review articles on topics including, but not limited to:

- Validation and verification of novel CFD schemes for heat and mass transfer;
- Models with coupled mechanisms in multiphysics and multiscale chemical processes;
- High-throughput chemical reactor design, optimization and modeling;
- Single- and multiphase Newtonian and non-Newtonian flow;
- Microchannel device and structures;
- Environment- and energy storage-related engineering applications.



mdpi.com/si/135381

Special Issue