

Special Issue

Advances and Applications of Fluidized Bed Technology

Message from the Guest Editor

Topics include, but are not limited to, the following:

- Fundamentals and Phenomena: Particulate solids and fluidization dynamics; solid inventory and distribution; advanced experimental diagnostics.
- Modeling and Simulation: Multiscale modeling; CFD simulations; AI and machine learning applications; scale-up methodologies and design optimization.
- Reactions and Processes: Chemical reaction engineering; combustion, pyrolysis, and gasification; chemical looping, calcium looping, and solid looping processes; CO₂ capture; energy storage.
- Systems and Applications: FB boiler operational experience; emission control and environmental impact; technologies supporting sustainable and green transition.

We invite contributions that provide new insights and foster technological developments in these areas.

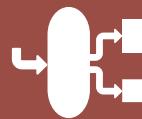
Guest Editor

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