



## Experiment and Simulation of Granular Flows

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### Message from the Guest Editor

Granular materials are ubiquitous in our daily life. Granular materials can behave like a solid, liquid, or gas depending on the external driven force. Powder technology was also widely applied in industrial processes such as powder metallurgical and milling processes, fluidized bed reactor, chemical looping, food industry, pharmaceutical industry, lithium battery, and additive manufacturing, etc. Granular flows are also ubiquitous in nature. Fundamental research and industrial application studies are both important for understanding the transport properties and segregation mechanisms of granular materials. Granular materials may segregate under external forces because of differences in size, density, and shape, resulting in severe challenges for most industries. Understanding flow behavior and the mixing/segregation mechanism is crucial for improving industrial processes and ensuring high product quality. Granular flows have attracted a lot of attention in the past few decades. Nonetheless, we still lack empirical research on the granular flows. Hence, more experiments and simulation studies are both important to comprehensively understand the granular flows.





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