

Special Issue

State-of-the-Art Research and Development in Particle Technology

Message from the Guest Editors

Particulate solids make up more than half of the globally manufactured products in various sectors. The science and knowledge of manufacturing, processing and handling of particulate solids, commonly known as particle technology, has significant industrial importance. Understanding and predicting the collective behaviour of particles in different conditions, for example, in packing, mixing and flow, is vitally important for the design, optimization and control of many processes; at the same time, it is very challenging due to the complexity and heterogeneity of particulate systems. To address the aforementioned challenge, a multidisciplinary approach based on a thorough characterization of particulate solids, advanced process measurements and modelling across different length and time scales is required. Based upon recent scientific and technological advances, this Special Issue aims to present state-of-the-art research and developments in the field of particle technology in the following key areas:

- Cutting-edge particle characterization;
- Advanced process measurements and optimization;
- Multiscale and multiphase modelling of particulate systems.

Guest Editors

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