

About this Journal

KONA Powder and Particle Journal is a refereed scientific journal that publishes articles in the field of powder and particle science and technology annually since 1983. This journal is distributed free of charge to the members of scientific communities and universities and research libraries throughout the world, by the Hosokawa Powder Technology Foundation (www.kona.or.jp/) established by Mr. Masuo Hosokawa in 1991.

The Chinese character “粉” in the cover is pronounced as “KONA” in Japanese, and means "Powder", which was hand-written by Mr. Eiichi Hosokawa, the founder of the Hosokawa Micron Corporation (www.hosokawamicon.co.jp/en/global.html).

About the Cover

Physical and chemical properties of cohesive powders need to be considered in the powder processing and manufacturing operations of the industries treating particulate solids. The dynamic behavior of the cohesive powder greatly depends on particle size and shape, degree of aggregation/agglomeration, charge amount, wettability, friction, and conditions of exposed environment. In the characterization of cohesive powders, various types of quasi-static method have been established and widely used, especially for powder spreading in additive manufacturing and 3D printing. In contrast, powder rheometry instrument, which is important to evaluate the dynamic behavior of flowing powders, is limited. Review on this topic is discussed on pp. 3–18.



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Publication Office

Hosokawa Powder Technology Foundation (www.kona.or.jp)
 (in the headquarters building of Hosokawa Micron Corporation)
 1-9, Shodaitajika, Hirakata-shi, Osaka 573-1132, Japan
 E-mail: contact_zainq@hmc.hosokawa.com

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