

About this Journal

KONA Powder and Particle Journal is an international, interdisciplinary, and Diamond Open-Access journal that focuses on publishing articles on powder and particle science and technology.

This journal is a refereed scientific journal with an annual publication history dating back to 1983. It is distributed free of charge to researchers, members of the scientific community, universities, and research libraries worldwide by the Hosokawa Powder Technology Foundation, established by the late Mr. Masuo Hosokawa in 1991.

The Chinese character “粉” featured on the cover of the journal is pronounced as “KONA” in Japanese and signifies “Powder.” The calligraphy for this character is attributed to the late Mr. Eiichi Hosokawa, the founder of Hosokawa Micron Corporation.

About the Cover

Controlling the fate of free-charge carriers generated in colloidal semiconductor nanocrystals through the sequential absorption of photons at photoexcited conditions determines the device performances of various applications including light-emitting diodes, photodetectors, sensors and theranostic photothermal agents. Defects, usually as non-radiating channels generated during crystal growth, interfere with efficient energy conversion between absorbed energy and other forms such as luminescence, photocurrent, and heat. In this paper, we report on a reliable method to investigate the origin of defects for identification and to inactivate them with unique surface chemistry approaches and doping techniques to maximize device performance. Review on this topic is discussed on pp. 172–182. <<https://doi.org/10.14356/kona.2024001>>



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