



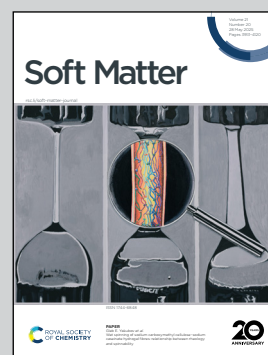
Showcasing research from the Ikeda Lab of the Graduate School of Arts and Sciences at The University of Tokyo and Toyota Central R&D Labs., Inc.

Enhanced collective vibrations in granular materials

Granular particles are known to be more collective than colloidal particles. To elucidate the underlying mechanism, we numerically and analytically studied the vibrational dynamics of model granular particles. We find that the damping becomes increasingly weaker for softer modes, which results in the collective vibrations in granular materials.

Image reproduced by permission of Norihiro Oyama from *Soft Matter*, 2025, **21**, 3957.

As featured in:



See Shihori Koyama *et al.*,
Soft Matter, 2025, **21**, 3957.