



**Showcasing research from Dr. Tenjimbayashi's Team,
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Particulate gel liquid marbles

We suffer from unwanted liquid adhesion to the solid as it decreases the mass transportation efficiency. Non-sticking droplets formed by covering its surface with low wettability particles, namely liquid marble, have been proposed; however, liquid marble is mechanically weak and has restricted practical use. Here, nonsticking water droplets stabilized by particulate gel, namely “particulate gel liquid marbles (PGLMs),” are prepared *via* mechanochemistry. PGLM exhibited excellent compression/impact stability owing to the viscous dissipation of PGs. Moreover, the shape reconfigurability of PG enabled the plastic deformation of PGLMs.

As featured in:



See Mizuki Tenjimbayashi
and Ryota Tamate,
J. Mater. Chem. A, 2024, **12**, 16343.