

EES Batteries

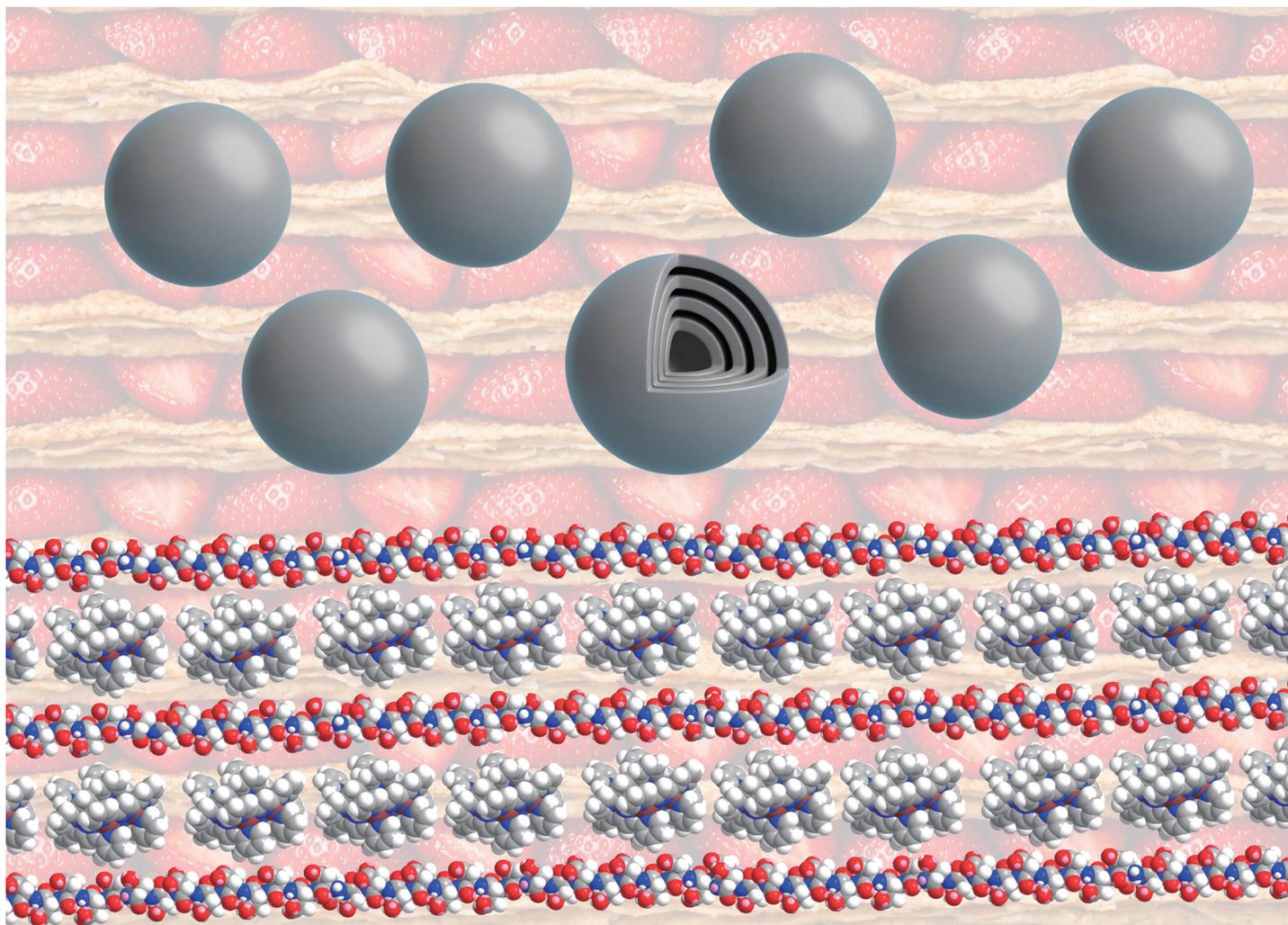
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Showcasing research from Professor Kuroiwa's laboratory,
Department of Nanoscience, Faculty of Engineering,
Sojo University, Kumamoto, Japan.

Supramolecular hybrid of Fe pentanuclear complex/diblock
copolyptide amphiphiles with pH-responsive
nano/microstructures in water

This work reports a supramolecular hybrid formed by
co-assembling a pentanuclear iron (**Fe5**) complex with
amphiphilic diblock copolypeptides in water. The peptide
framework stabilizes the intact **Fe5** cluster and drives
pH-responsive self-assembly into nano- and microstructured
morphologies such as vesicles and lamellae. These hierarchical
architectures modulate the spectroscopic and electrochemical
properties of the **Fe5** complex, demonstrating how
peptide-based supramolecular design enables functional metal
complexes to operate effectively in aqueous environments.

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Mater. Adv., 2026, **7**, 2039.

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See Keita Kuroiwa *et al.*,
Mater. Adv., 2026, **7**, 2039.