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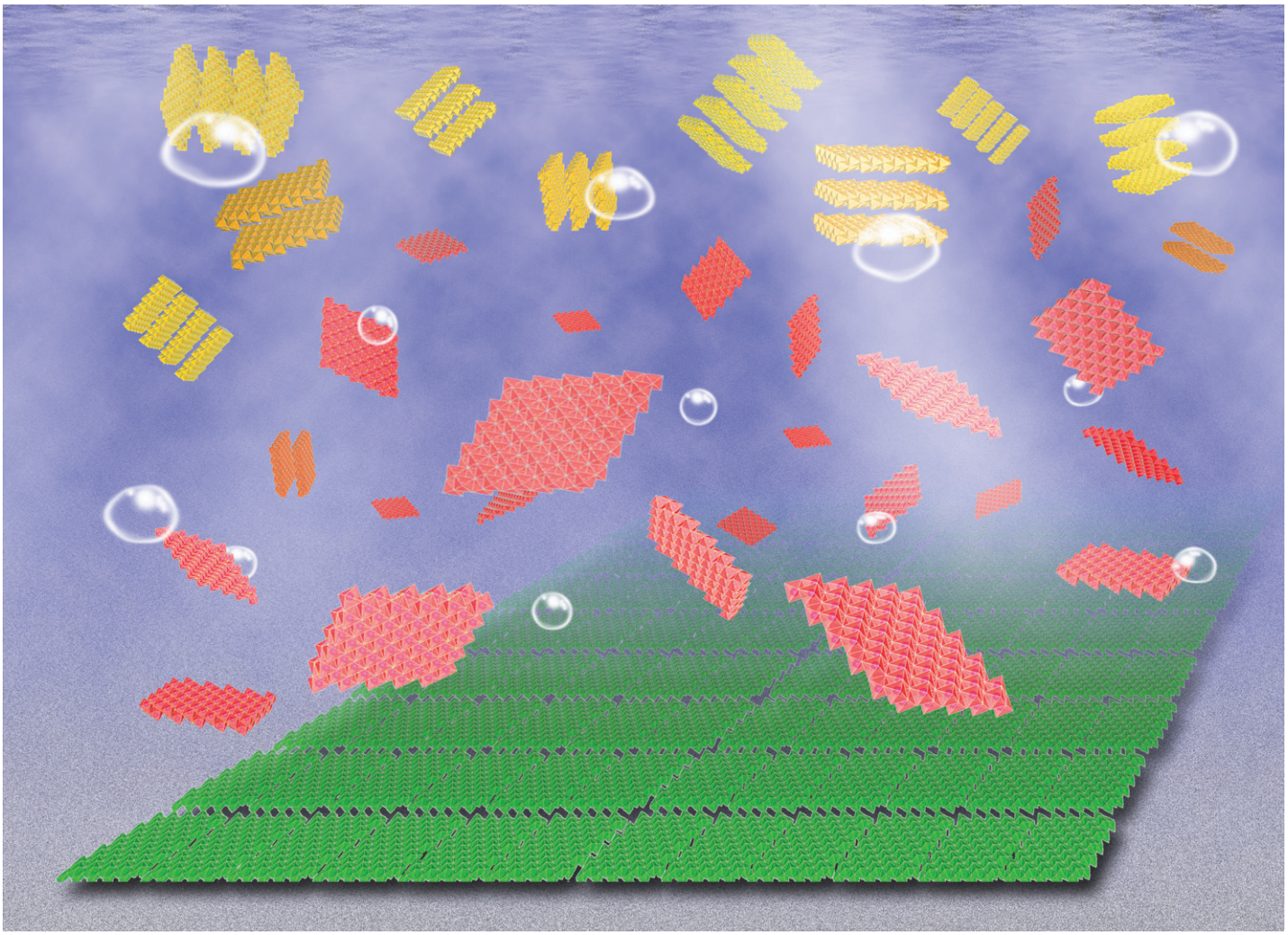

Showcasing research from Professor Takayuki Ban's laboratory, Department of Chemistry and Biomolecular Science, Gifu University, Gifu, Japan.

Bottom-up synthesis of titanate nanoflakes with euhedral shapes by aqueous solution process

In this paper, the bottom-up synthesis of titanate nanoflakes with euhedral shapes by aqueous solution process is described. In particular, the effect of organic additives on the morphology control of titanate nanoflakes was examined. The resulting titanate nanoflakes are highly water-dispersible and have rhombic shapes, which are euhedral shapes. The close packing of nanoflakes with a euhedral shape and a uniform size in the in-plane direction would enable the fabrication of large polycrystalline nanosheet thin films. Such large nanosheet thin films would be treated like single-crystalline nanosheets.

As featured in:

See Takayuki Ban *et al.*, *CrystEngComm*, 2023, **25**, 4960.

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