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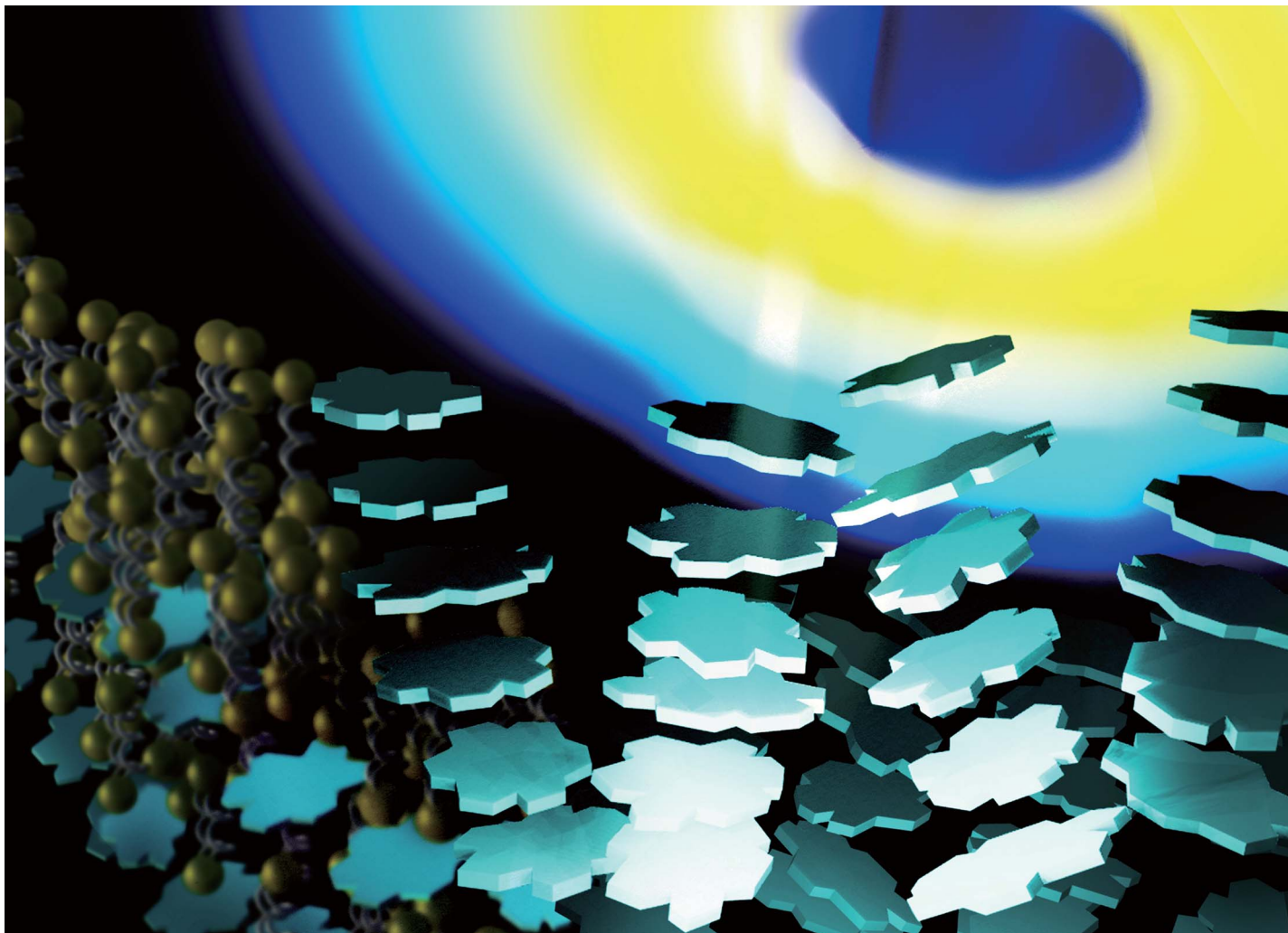
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Showcasing collaborative research from Taiki Hoshino group, International Center for Synchrotron Radiation Innovation Smart (SRIS), Tohoku University, and from Professor Takashi Kato group, Department of Chemistry and Biotechnology, School of Engineering, The University of Tokyo.

Experimental probing of dynamic self-organized columnar assemblies in colloidal liquid crystals

The authors experimentally unveiled the static structures and dynamical behavior in columnar colloidal liquid crystals through X-ray photon correlation spectroscopy measurements using refined model samples. These new colloidal liquid crystals were formed by assembly of hybrid platelike nanoparticles prepared with biomineralization-inspired methods. This research will contribute to better understanding of molecular assemblies and colloidal systems, as well as the design of self-assembled materials.

As featured in:



See Taiki Hoshino, Masanari Nakayama, Takashi Kato *et al.*, *Nanoscale Adv.*, 2023, 5, 3646.