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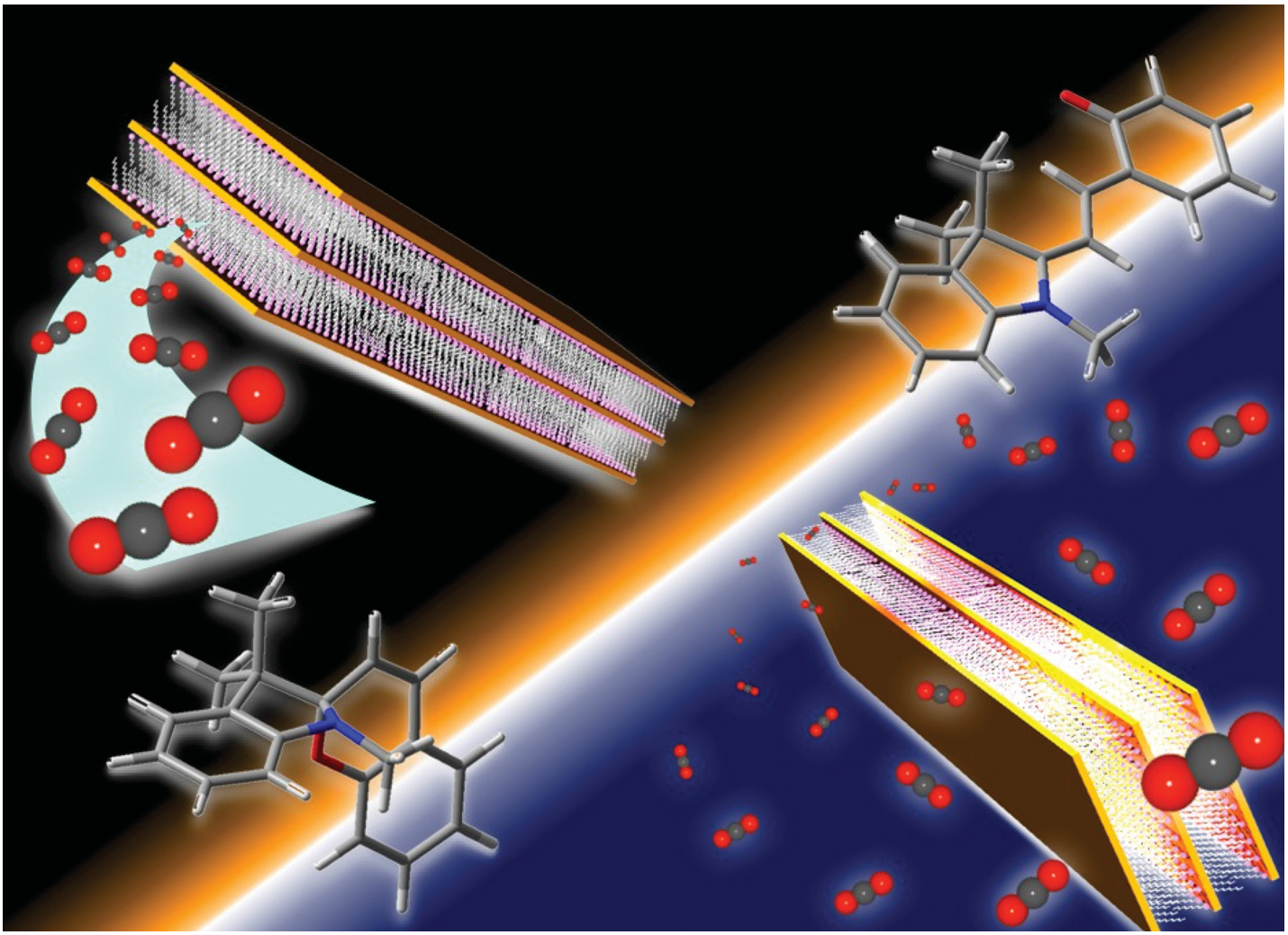
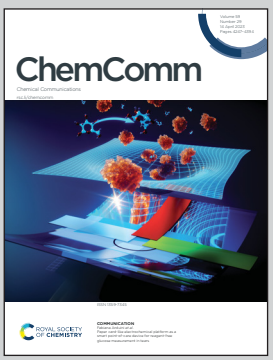


Showcasing research from the Department of Applied Chemistry at Seikei University, Tokyo, Japan.

Photo-induced mode change for CO_2 capture/release on spiropyran in a polar-gradient environment

Photo-triggered CO_2 capture/release mode change of photochromic spiropyran/merocyanine system was achieved in the polar-gradient environment served by surfactant assemblies. Experimental and computational investigations demonstrate that spiropyran can capture CO_2 *via* not only physical forces but also electronic interaction, while merocyanine is not favored for CO_2 capture.

As featured in:



See Keigo Tashiro *et al.*, *Chem. Commun.*, 2023, **59**, 4304.

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