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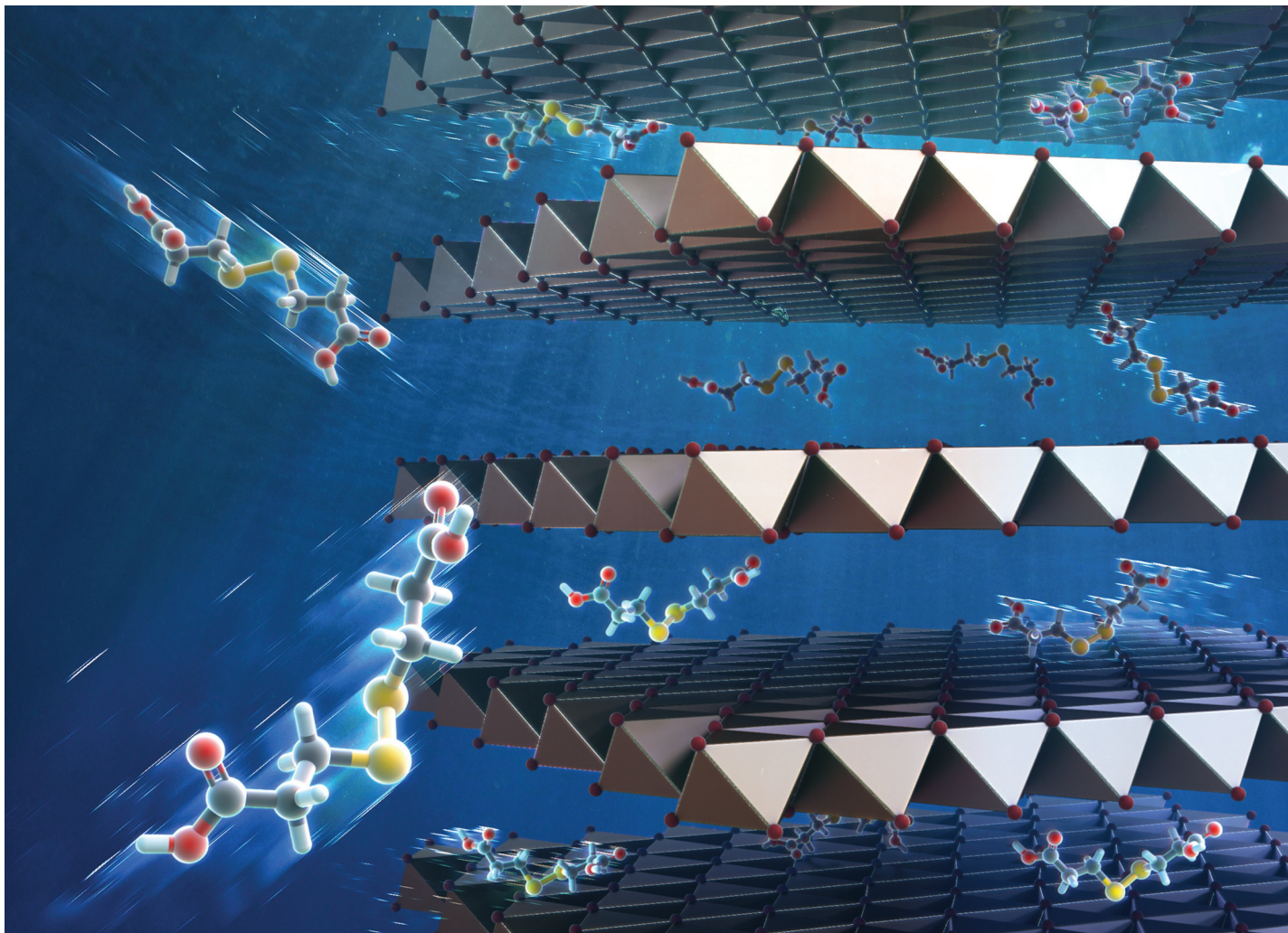
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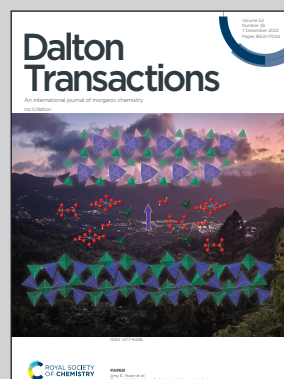


**Showcasing research from Professor Yokoi's laboratory,  
Institute of Biomaterials and Bioengineering, Tokyo  
Medical and Dental University, Tokyo, Japan.**

Formation of octacalcium phosphate with incorporated  
dicarboxylate ions containing disulfide bonds

Octacalcium phosphate (OCP) is a layered compound capable of incorporating carboxylate ions within its interlayer structure. In this study, we successfully synthesised OCP with incorporated 3,3'-dithiodipropionate ions. Since disulfide bonds, known for their weaker strength compared to carbon-carbon bonds, exhibit multi-stimuli responsiveness to heat, pH, and light, our finding is beneficial for the development of novel OCP-based materials with dynamic properties derived from disulfide bonds.

**As featured in:**



See Taishi Yokoi *et al.*, *Dalton Trans.*,  
2023, **52**, 16586.