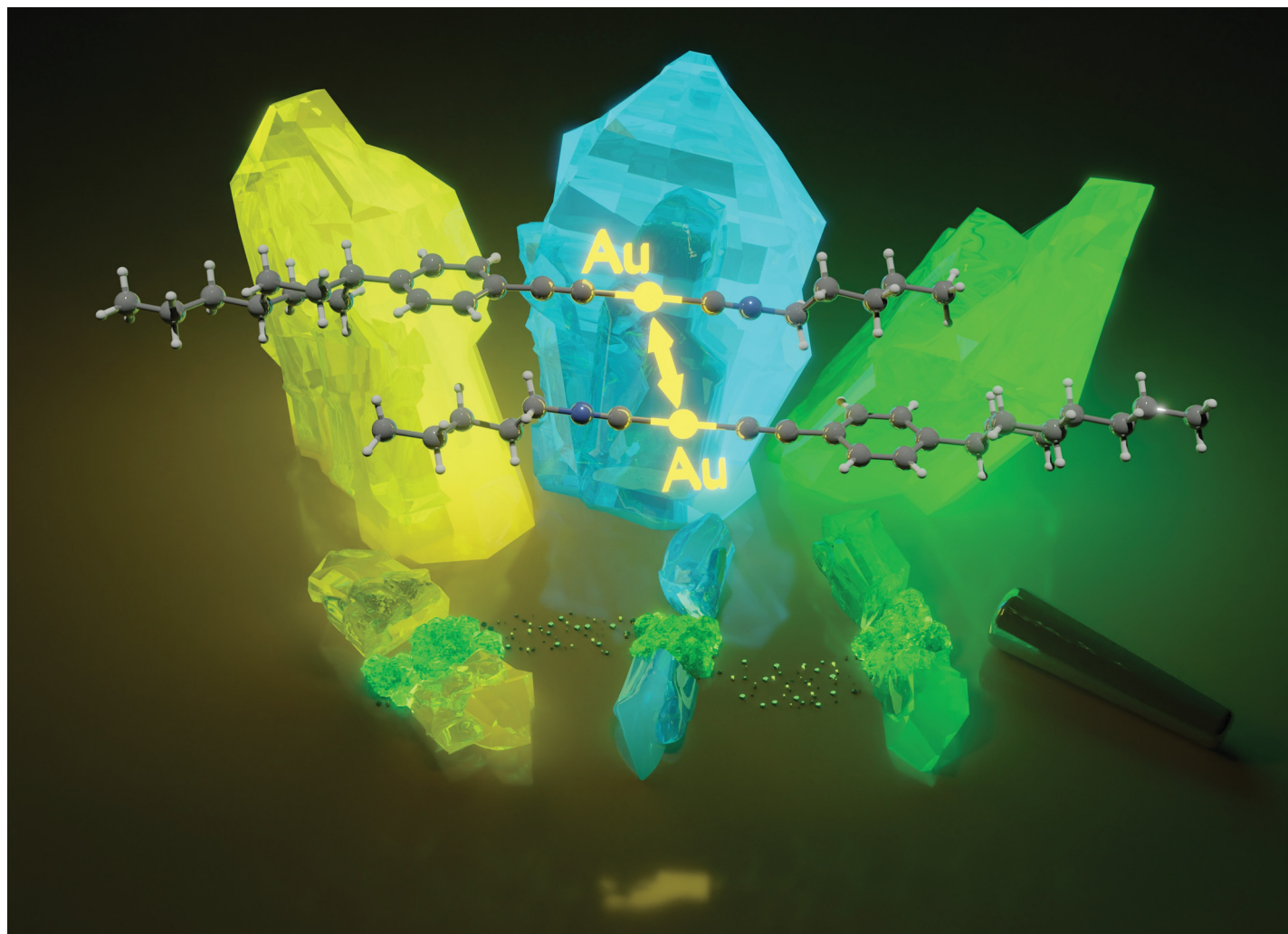




Showcasing research from Professor Tsutsumi's laboratory,
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Kusatsu, Japan.

Tricolour luminescence in an Au(I) complex controlled by
polymorphism and mechanical stress

A rod-like Au(I) complex, **CP**, featuring a cyclohexylphenyl moiety and an isocyanide ligand, exhibited tricolour luminescence attributable to polymorphism. Mechanical stimuli, which alter the aggregated structure, can induce a switch in its luminescence colour. Additionally, the **CP** Au(I) complex displayed a liquid-crystalline (LC) phase wherein luminescence was observed. Our study demonstrates that the luminescence behaviour of the **CP** Au complex can be effectively controlled through crystalline-to-crystalline and crystalline-to-LC phase transitions.

As featured in:



See Osamu Tsutsumi *et al.*,
Mater. Adv., 2024, 5, 5052.