

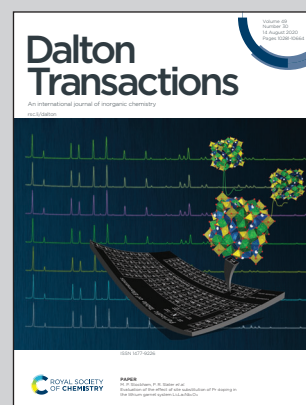
Showcasing research from Dr. Sayaka Uchida's laboratory, School of Arts and Sciences, The University of Tokyo, Japan.

Isostructural mesoporous ionic crystals as a tunable platform for acid catalysis

Fresh Ionic Crystals Coffee with Eleven Different Flavors!!

We synthesized eleven isostructural mesoporous ionic crystals (meso-PICs), possessing one-dimensional mesopores with an aperture of 3 nm × 2 nm, as heterogeneous catalysts and investigated the building block-catalytic activity relationships. Initial activities of the Barbier-Grignard reaction were dependent on the types of polyoxometalate anions and pK_a of the aqua ions of counter cations. These findings show that the meso-PICs can serve as a platform for rational designing of heterogeneous acid catalysts.

As featured in:



See Sayaka Uchida *et al.*, *Dalton Trans.*, 2020, **49**, 10328.