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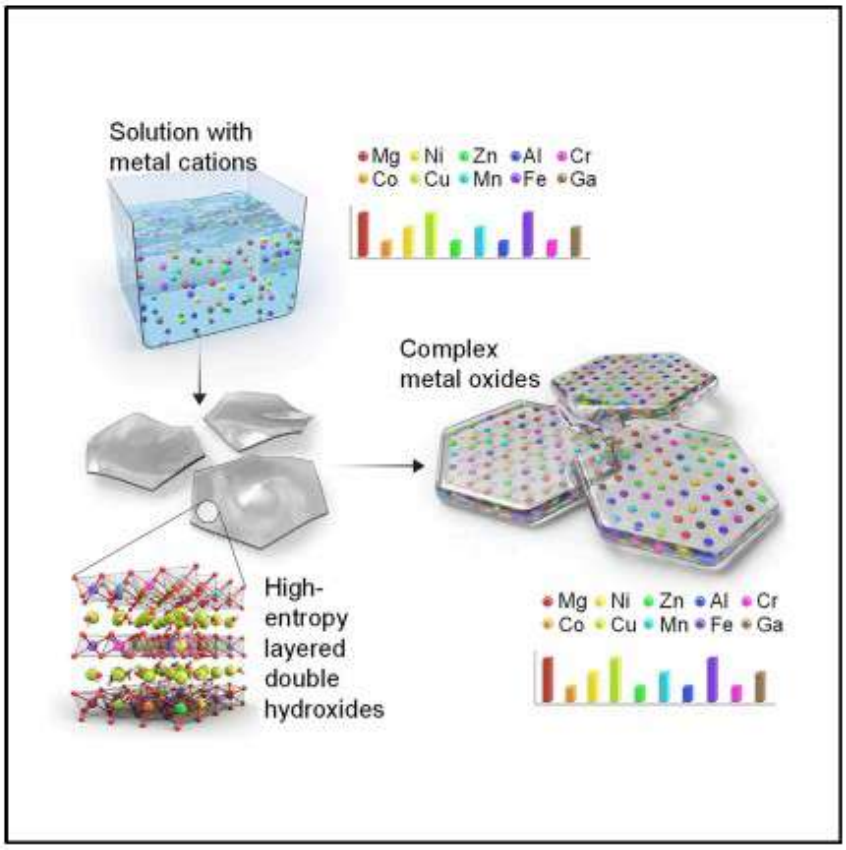
Article

A solution-based route to compositionally complex metal oxide structures using high-entropy layered double hydroxides



A solution-based synthesis of compositionally complex metal oxides is challenging. Kim et al. prepare high-entropy layered double hydroxides containing 10 different metal cations by a solution-based route. The high-entropy materials are transformed into compositionally complex metal oxides with controlled compositions by simple heat treatments.

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Highlights

Formation of high-entropy layered double hydroxides with 10 different metal cations

Solution-based preparation of composition-controlled complex metal oxides