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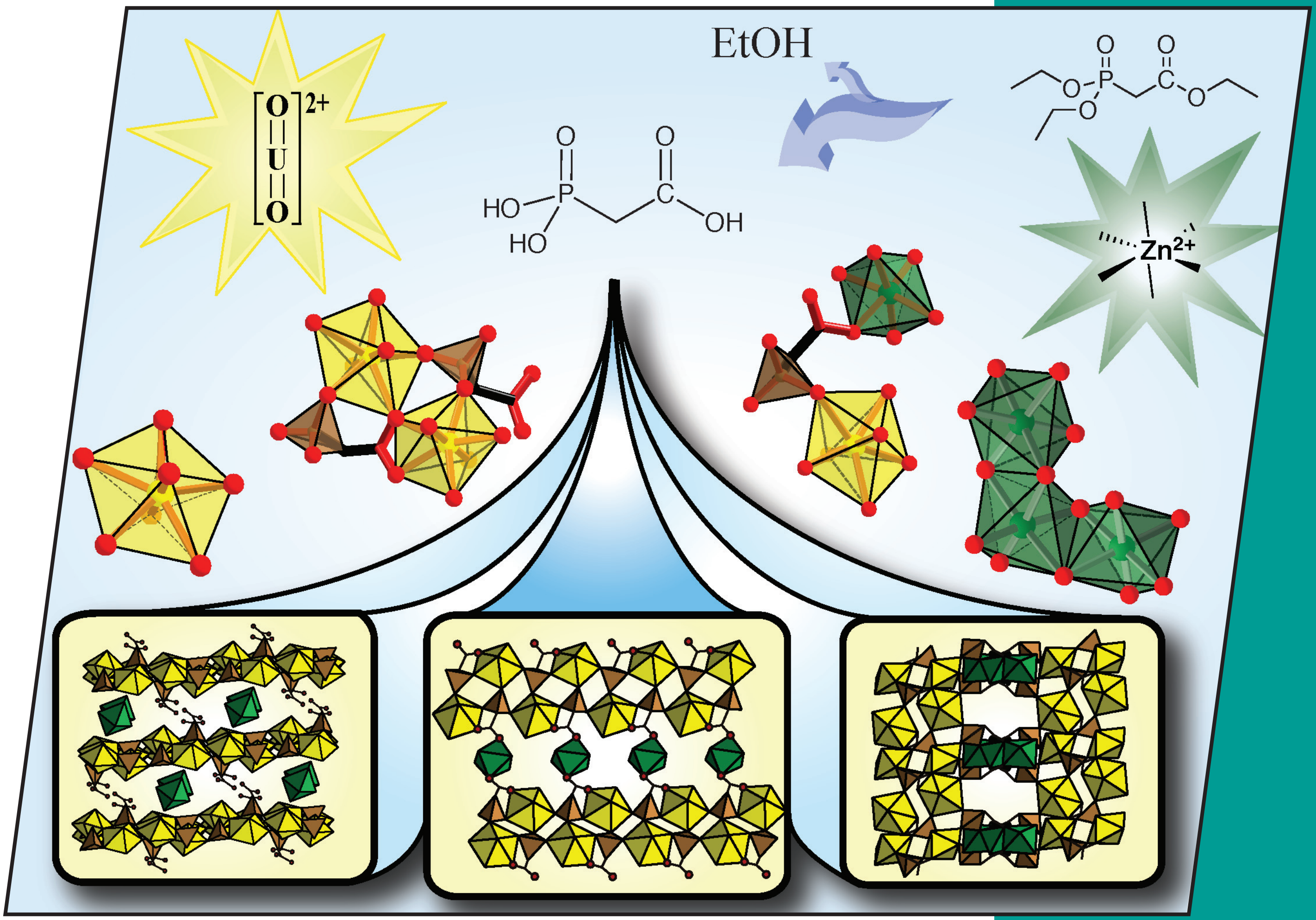

Cover Picture

Karah E. Knope and Christopher L. Cahill

Bimetallic UO_2^{2+}/Zn^{2+} Phosphonoacetates

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COVER PICTURE

The cover picture shows three bimetallic UO_2^{2+}/Zn^{2+} phosphonoacetates that have been prepared under hydrothermal conditions. The phosphonate linker was generated in situ by the hydrolysis of triethyl phosphonoacetate, as efforts to prepare uranyl/zinc bimetallic phases from the direct reaction of the metal salts with the acid form of the ligand were unsuccessful. These compounds exhibit diverse topologies and dimensionalities that can be attributed to polymerization of the UO_2^{2+} sites, oligomerization of Zn^{2+} octahedra, and degree of Zn^{2+}–ligand coordination; structural features are related to temperature. Details are discussed in the article by K. E. Knope and C. L. Cahill on p. 1177ff.