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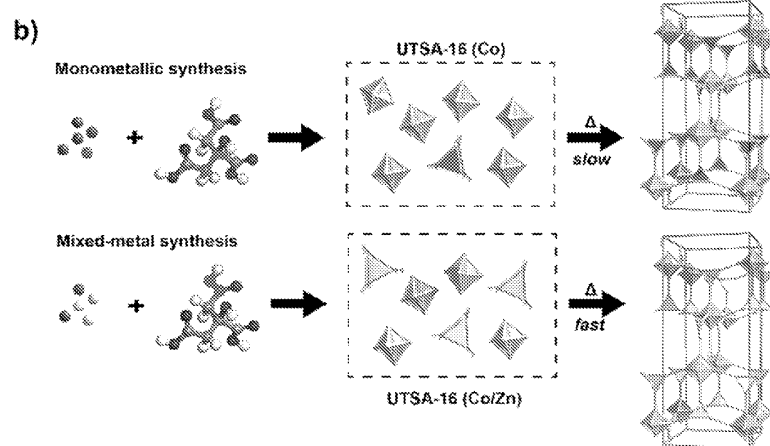


FIG. 1

(57) Abstract: Disclosed herein is a metal organic framework (MOF) having a UTSA-16 structure, where the composition comprises: from 0 to 80 mol% of the total metal in the MOF is a first metal selected from one or more of the group consisting of Cr, Mn, Fe, Ni, Cu, and Co; and from 20 to 100 mol% of the total metal in the MOF is a second metal selected from one or more of the group consisting of Cd, Mn, and Zn.

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