

Abstract

A chemical rearrangement under hydrothermal conditions resulted in an unprecedented interpenetrating structure with two covalently bonded open frameworks of different dimensionality: $\{[\text{Cu}_2(\text{IN})_4 \cdot 3\text{H}_2\text{O}] \cdot [\text{Cu}_2(\text{IN})_4 \cdot 2\text{H}_2\text{O}]\} \cdot 3\text{H}_2\text{O}$ (IN = isonicotinate)