

Figure S1. Inorganic part of compound III. Thermal ellipsoids are drawn at the 50% probability level. H_2 dabco cations and water molecule are omitted for clarity. Only crystallographically independent atoms are labeled.



Figure S2. Raman-spectrum of $(H_2 dabco)$ Cu₂Cl₄ compound. Thin arrows depict peaks originated from organic part, thick arrow marks v_s mode of the copper-chlorine anion.



Figure S3. Raman-spectrum of $(H_2 dabco)$ Cu₃Cl₅ compound. Thin arrows depict peaks originated from organic part, thick arrow marks u_s mode of the copper-chlorine anion.



Figure S4. Raman-spectrum of $(H_2 dabco)_5 Cu_{12} Cl_{22} \cdot H_2 O$ compound. Thin arrows depict peaks originated from organic part, thick arrow marks u_s mode of the copper-chlorine anion.



Figure S5. Raman-spectrum of $(H_2 dabco)$ Cu₂Cl₆ compound. Thin arrows depict peaks originated from organic part, thick arrow marks v_s mode of the copper-chlorine anion.