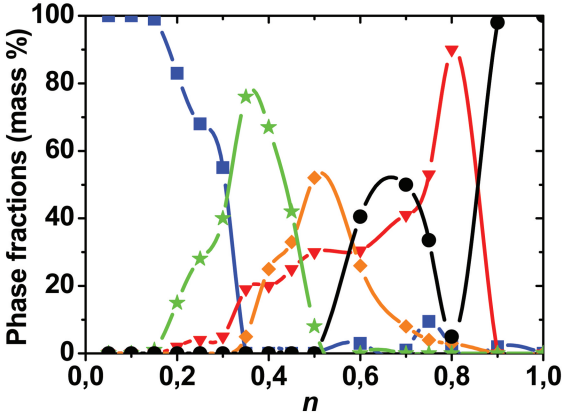

Fig. 1 Phase fractions of the materials in the solid products from Series **A** (amine present) as a function of the relative amount of Co, *n*, in the reaction mixtures: $[CH_3NH_3][(Co_xZn_{1-x})_4(PO_4)_3]$, blue square; hopeite, $(Co_xZn_{1-x})_3(PO_4)_2{\cdot}4H_2O$, green star; $Co_{2.59}Zn_{0.41}(PO_4)_2{\cdot}H_2O$ **1**, red triangle; amorphous powder, orange diamond; $Co_3(HPO_4)_2(OH)_2$, black circle. The lines are sketched as a guide to the eye.

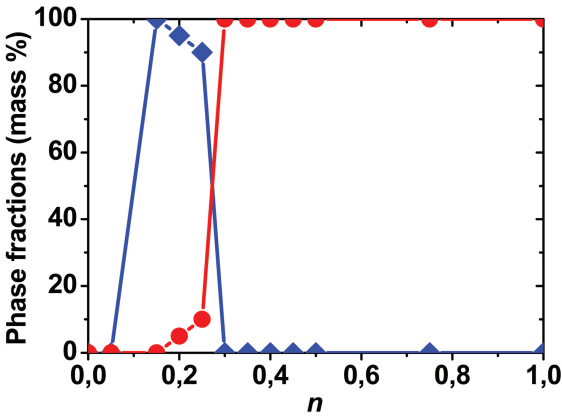

Fig. 2 Phase fractions of the materials in the solid products from Series **B** (amine absent) as a function of the relative amount of Co, *n*, in the reaction mixtures: $Co_{0.72}Zn_{2.28}(PO_4)_2{\cdot}H_2O$ **2**, blue diamonds and $Co_7(HPO_4)_4(PO_4)_2$, red circles. The lines are sketched as a guide to the eye.