

**On the new low-dimensional organic–inorganic hybrid solids
 $\text{Cu}_4(\text{bipy})_4[\text{V}_4\text{P}_2\text{O}_{19}] \cdot n\text{H}_2\text{O}$ ($n \sim 5$) and $\text{Cu}_2(\text{bipy})_2[\text{V}_2\text{P}_2\text{O}_{12}]$ with linear $[\text{V}_4\text{P}_2\text{O}_{19}]^{8-}$
and cyclic $[\text{V}_2\text{P}_2\text{O}_{12}]^{4-}$ oligomers.**

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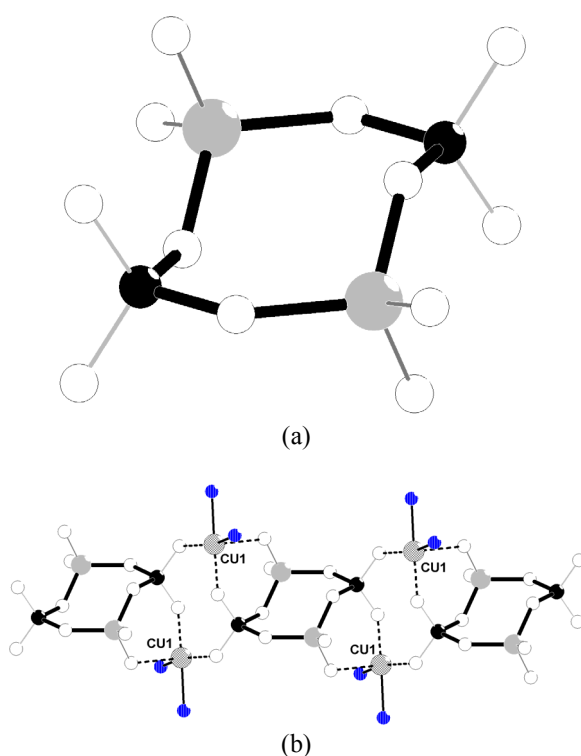


Fig. 2 : (a) The 8-membered rings $\{\text{V}_2\text{P}_2\text{O}_{12}\}$ in **2**. **(b)** Infinite chain of rings linked along the a direction by $\text{Cu}(\text{bipy})$ complexes. Atoms labelling: white: oxygen, blue: nitrogen, black: phosphorous, gray: vanadium.

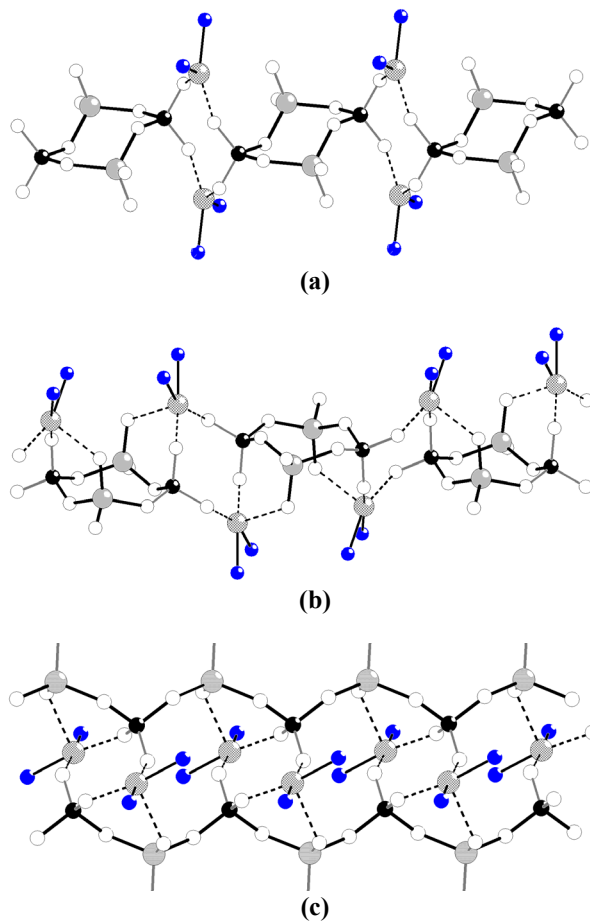


Fig. 3 : The inorganic Cu/VPO sub-structure for (a) $\text{Cu}_2(\text{dpa})_2\text{V}_2\text{P}_2\text{O}_{12}$, (b) $\text{Cu}_2(\text{phen})_2\text{V}_2\text{P}_2\text{O}_{12}$ and (c) $\text{Cu}(\text{bipy})\text{VPO}_6$. Atoms labelling as in Fig. 2.