

Fig. S1 Variation in the powder XRD patterns of the slurries with the reaction time. (a) $\text{K}_4\text{Nb}_6\text{O}_{17} \cdot 4.5\text{H}_2\text{O}$, (b) $\text{PA-K}_x\text{Nb}_6\text{O}_{17}$, (c) the reaction product after the hydrothermal treatment for 1 d, (d) the product for 2 d, and (e) the product for 3 d. After the hydrothermal treatment for 1 d, a broad peak at lower than 5° was observed as well as those due to $\text{K}_4\text{Nb}_6\text{O}_{17} \cdot 4.5\text{H}_2\text{O}$ (\blacktriangle = 2.06 nm, 1.03 nm, and 0.69 nm) and the $\text{PA-K}_x\text{Nb}_6\text{O}_{17}$ intercalation compound (\blacksquare = 2.21 nm, 1.12 nm, and 0.76 nm).

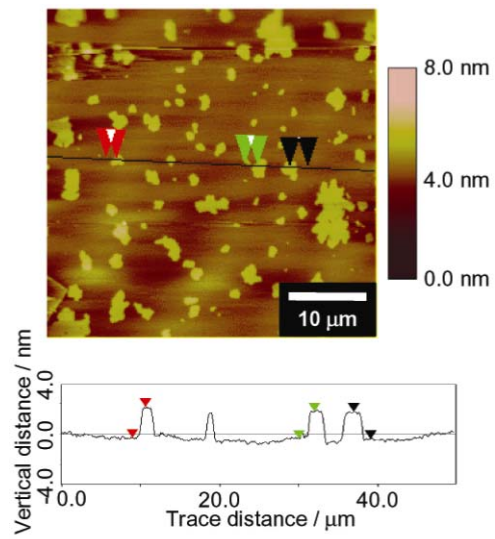


Fig. S2 AFM image of the sample in the supernatant

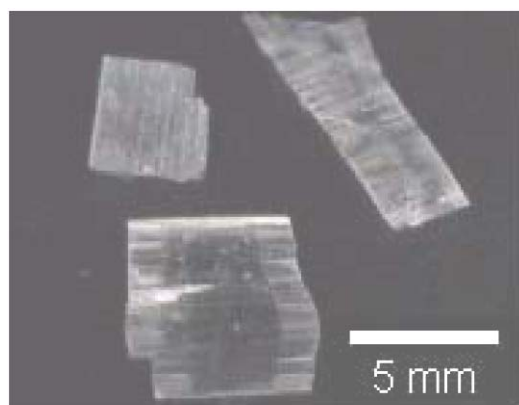


Fig. S3 $K_4Nb_6O_{17}$ Crystals