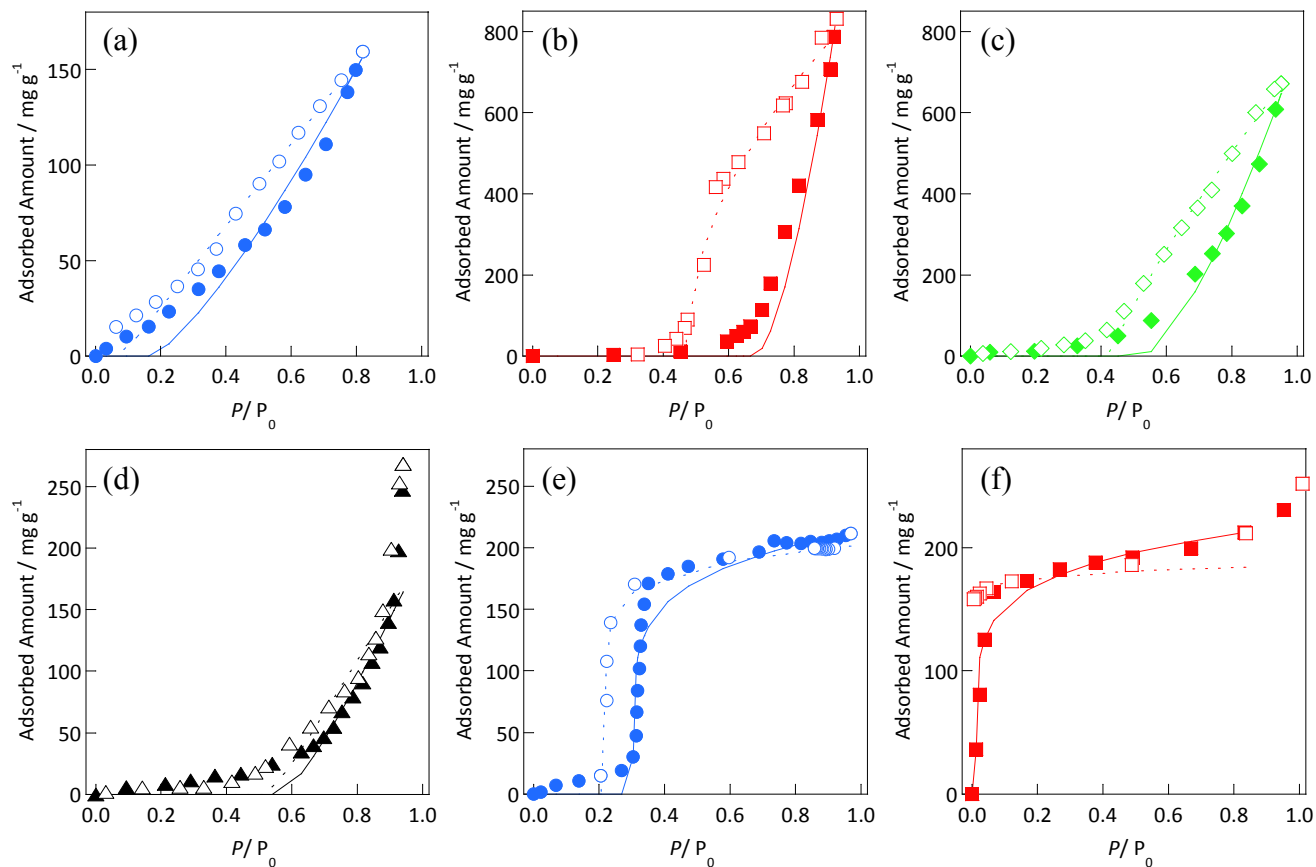


## Supporting Information

### **Changing Water Affinity from Hydrophobic to Hydrophilic in Hydrophobic Channels**

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**Figure S1.** Water vapor adsorption isotherms of CNTs and  $\text{AlPO}_4$  at 303 K and fitted curves. Experimental adsorption and desorption isotherms are depicted by solid and open symbols, respectively. The adsorption and desorption isotherms are fitted using a modified Freundlich equation, and are depicted by solid and dashed curves, respectively. (a) 1-nm CNT, (b) 2-nm CNT, (c) 3-nm-CNT, (d) 5-nm CNT, (e)  $\text{AlPO}_4$ -5, and (f)  $\text{AlPO}_4$ -C.