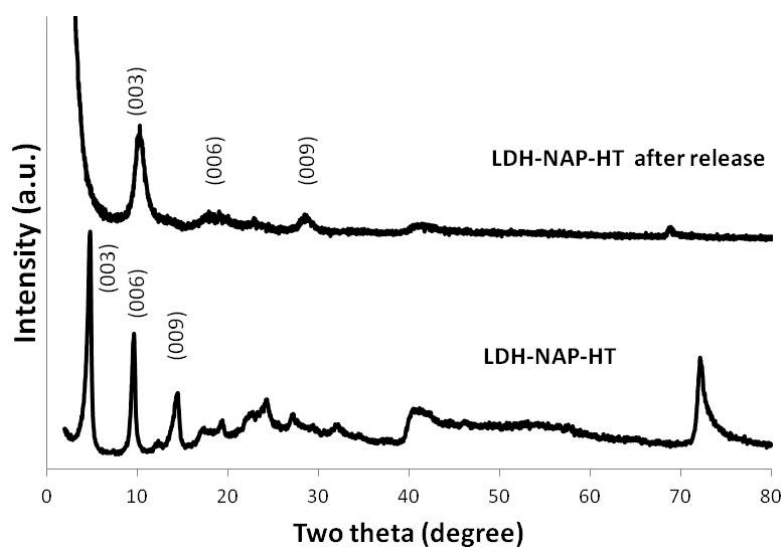


Supplementary Information

Figure S1. Powder XRD patterns for LDH-NAP-HT before and after release. The patterns before and after release were recorded on a Rigaku Miniflex using Co $K\alpha$ source ($\lambda = 0.178897$ nm) and a Bruker Advance D8 X-ray Diffractometer using Cu $K\alpha$ source ($\lambda = 0.15418$ nm) at a scanning rate of $0.02^\circ/\text{s}$ (2θ) from $2\theta = 2^\circ$ to $2\theta = 80^\circ$. The data from Cu $K\alpha$ source has been converted to Co $K\alpha$ source, and shown in the figure. The new peaks appear on the pattern of LDH-NAP-HT after release, which were around $2\theta = 10.3^\circ$, 19.5° and 28.4° and labeled as (003), (006), and (009). The corresponding interlayer spacing is calculated to be 1.05 nm, in agreement with 1.06 nm of HPO_4 -intercalated LDH reported previously.



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