

# Topotactic synthesis of layered double hydroxide nanorods

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**Table S1.** Summary of elemental analysis data for **rod-Gibbsite**, **LiAl-Cl-rod**, **LiAl-Br-rod** and **LiAl-cyclamate**.

Sample	Observed ( <i>calc.</i> ) (%)			Calc. Formula
	C	H	N	
<b>rod-Gibbsite</b>	-	3.73 (3.85)	-	Al(OH) <sub>3</sub>
<b>LiAl-Cl-rod</b>	-	3.32 (3.02)	-	[LiAl <sub>2</sub> (OH) <sub>6</sub> ]Cl
<b>LiAl-Br-rod</b>	0.35 (0.25)	2.67 (2.55)	-	[LiAl <sub>2</sub> (OH) <sub>6</sub> ](Br) <sub>0.9</sub> (CO <sub>2</sub> ) <sub>0.05</sub>
<b>LiAl-cyclamate</b>	20.07 (21.11)	5.70 (5.28)	4.57 (4.11)	[LiAl <sub>2</sub> (OH) <sub>6</sub> ](C <sub>6</sub> H <sub>12</sub> NSO <sub>3</sub> )

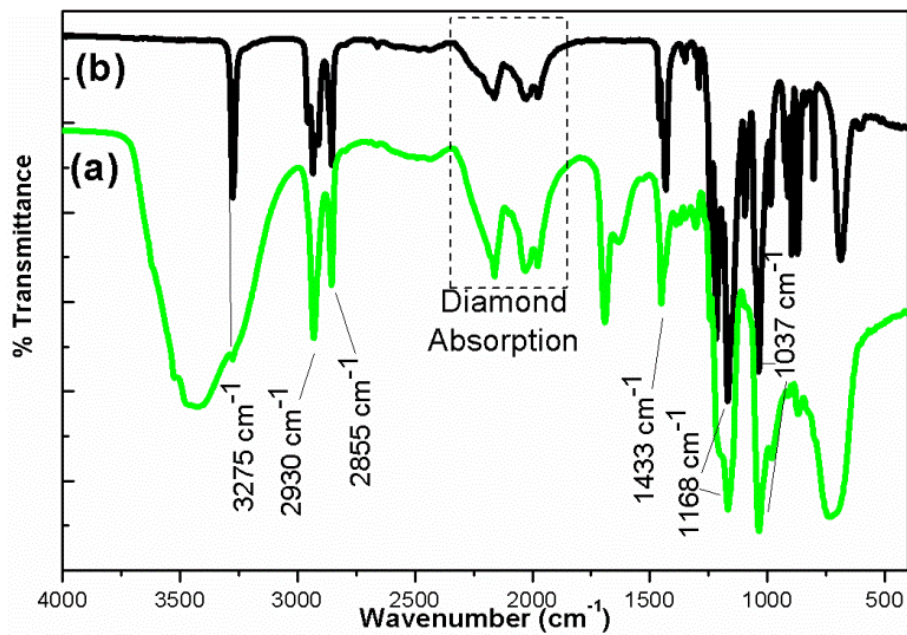


Figure S1. FT-IR spectra of (a) LiAl-cyclamate and (b) pure sodium cyclamate.

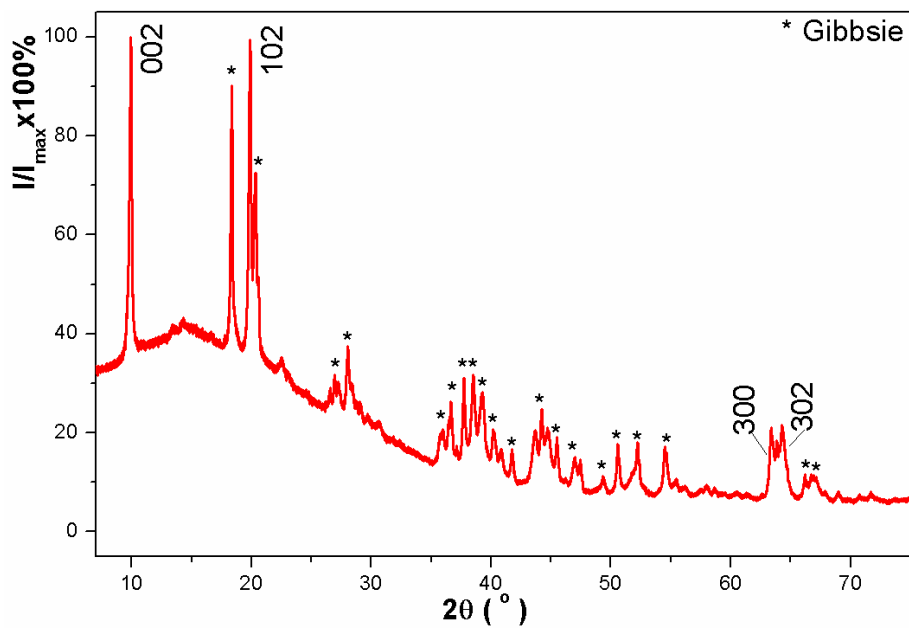


Figure S2. XRD data of LiAl-NO<sub>3</sub>.