Supporting Information

Figure S1. DTA curve of $Li(H_2O)_{2-x}[Zr_2(PO_4)_3]$ (x = 0) at low temperature from -170 ºC to 25 ºC and back to -170 ºC.

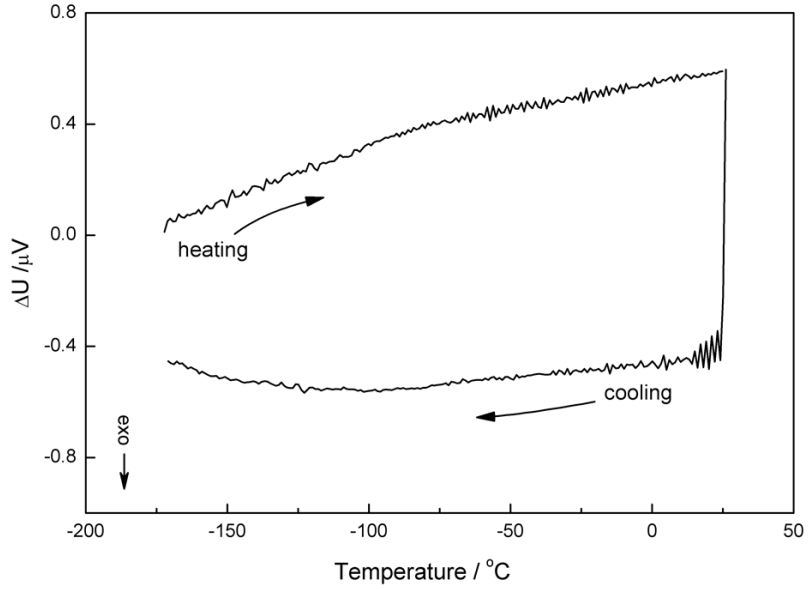

Figure S2. DTA curves of anhydrous cubic $Li(H_2O)_{2-x}[Zr_2(PO_4)_3]$ (x = 2) from -180 ºC to 600 ºC and back to -180 ºC.

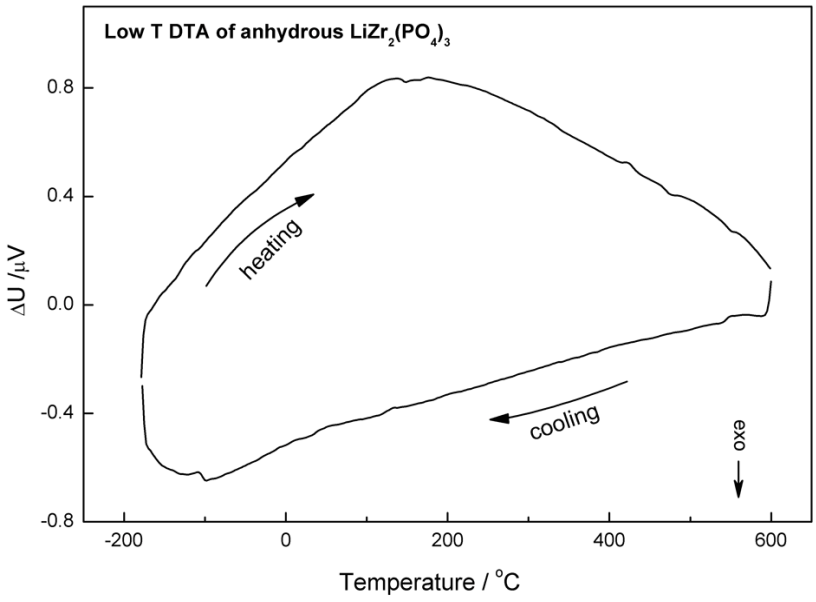

Figure S3. DTA curves of α'–$LiZr_2(PO_4)_3$ from -180 ºC to 600 ºC and back to -180 ºC (insert: DTA curve of α'–$LiZr_2(PO_4)_3$ at high temperature up to 1200 ºC).

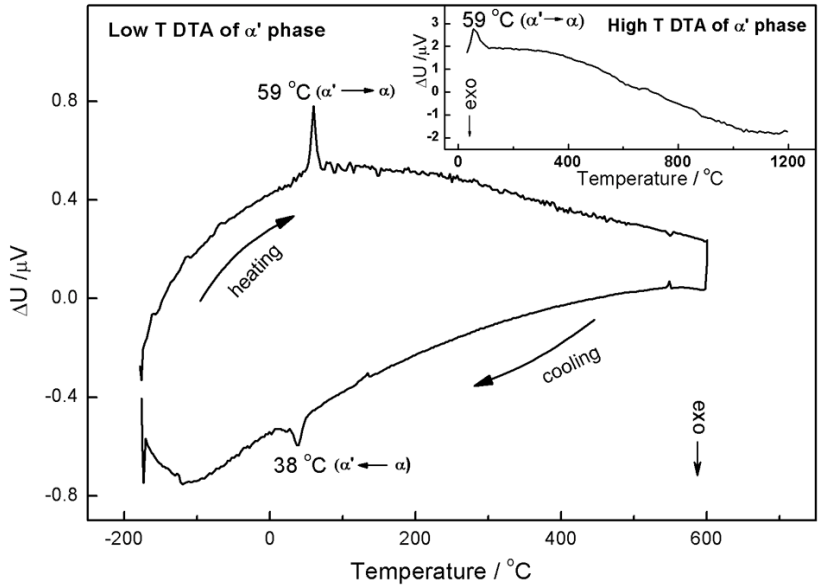
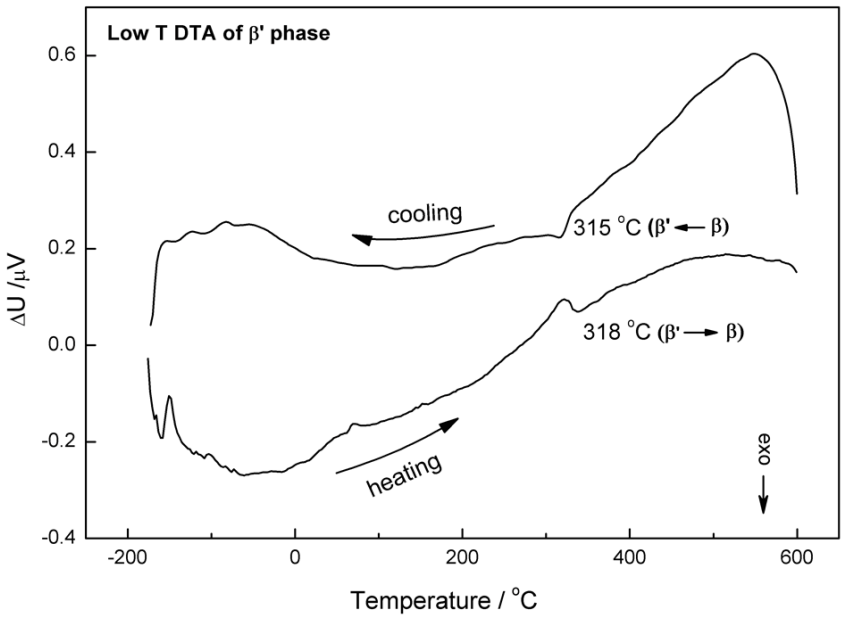
Figure S4. DTA curves of β'–$LiZr_2(PO_4)_3$ from -180 ºC to 600 ºC and back to -180 ºC.