

Supplementary Materials: *In-Situ* Studies of Structure Transformation and Al Coordination of $\text{KAl}(\text{MoO}_4)_2$ during Heating by High Temperature Raman and ^{27}Al NMR Spectroscopies

Min Wang, Jinglin You, Alexander Sobol, Liming Lu, Jian Wang and Yingfang Xie

Table S1. The calcination process for preparing crystalline $\text{KAl}(\text{MoO}_4)_2$.

Heat Treatment	Parameter Settings of Temperature (K)	Dwell Time (min)	Crucible
1	593	120	Pt
2	773	180	
3	873	2400	
and then cooled slowly (0.24 K/min) to room temperature			

Table S2. The heating process used to prepare amorphous $\text{KAl}(\text{MoO}_4)_2$.

Heat Treatment	Parameter Settings of Temperature (K)	Dwell time (min)	Crucible
1	593	120	Pt
2	923	120	
3	1173	240	
The melt was then quenched by the “hammer-and-anvil” technique (by liquid quenching between two metallic plates).			



© 2017 by the authors. Submitted for possible open access publication under the terms and conditions of the Creative Commons Attribution (CC BY) license (<http://creativecommons.org/licenses/by/4.0/>).