

Supporting Information

Ionothermal Synthesis and Characterization of New Open-Framework Metal Borophosphates

Tan Su[†], Hongzhu Xing[‡], Jin Xu[†], Jihong Yu^{*†} and Ruren Xu[†]

[†]State Key Laboratory of Inorganic Synthesis and Preparative Chemistry, College of Chemistry, Jilin University, Changchun 130012, P. R. China,

[‡]College of Chemistry, Northeast Normal University, Changchun 130024, P. R. China

Figure S1. Experimental and simulated powder X-ray diffraction patterns for JIS-4, JIS-5 and JIS-6.

Figure S2. Thermal ellipsoid plots (50% probability) and atomic labeling schemes of the three structures.

Figure S3. Thermogravimetric curves of the three compounds.

Figure S4. *In-situ* temperature dependent X-ray diffraction patterns of JIS-4

Table S1. ICP results of the elements in the three compounds.

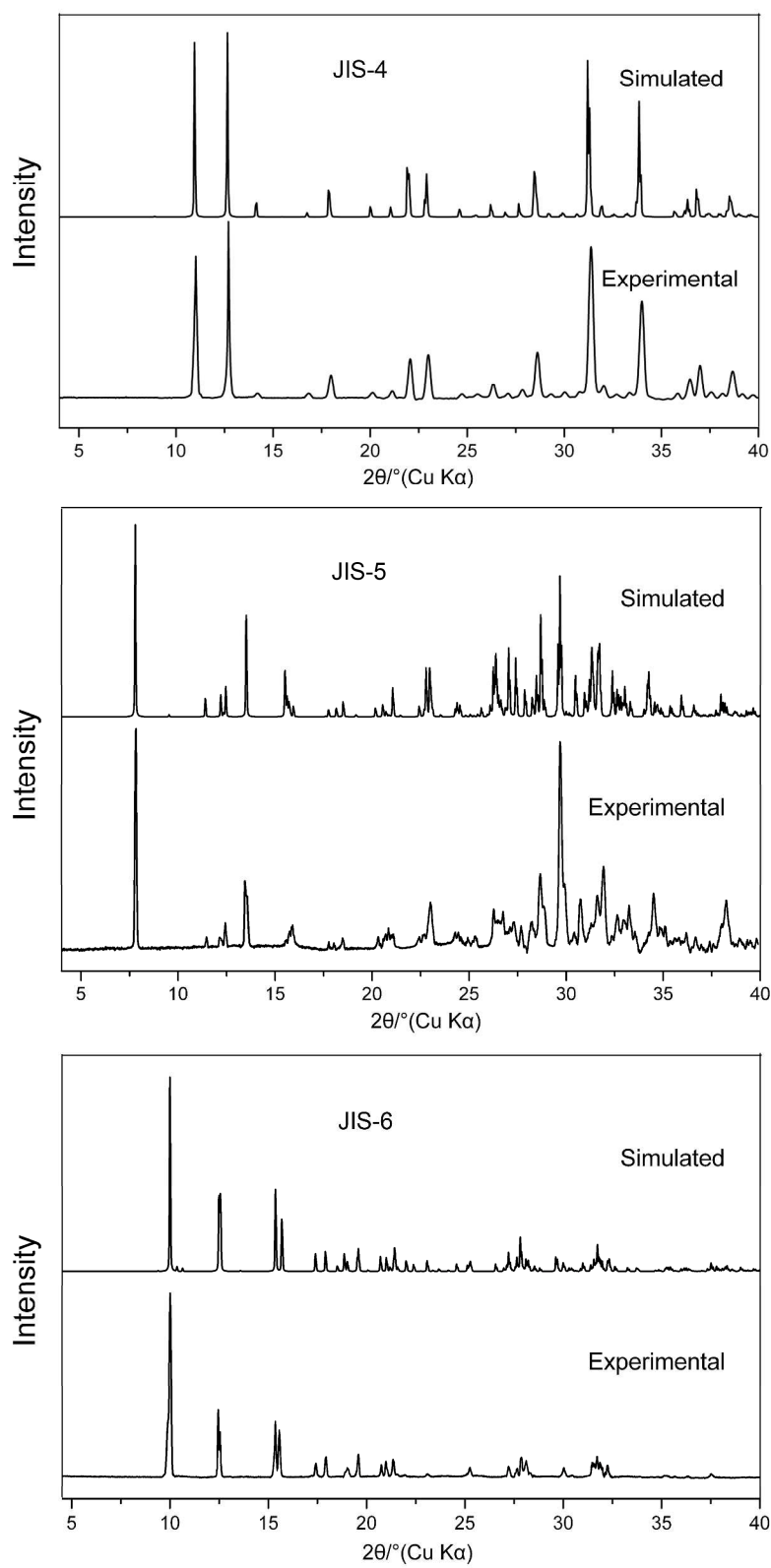


Figure S1

Figure S2

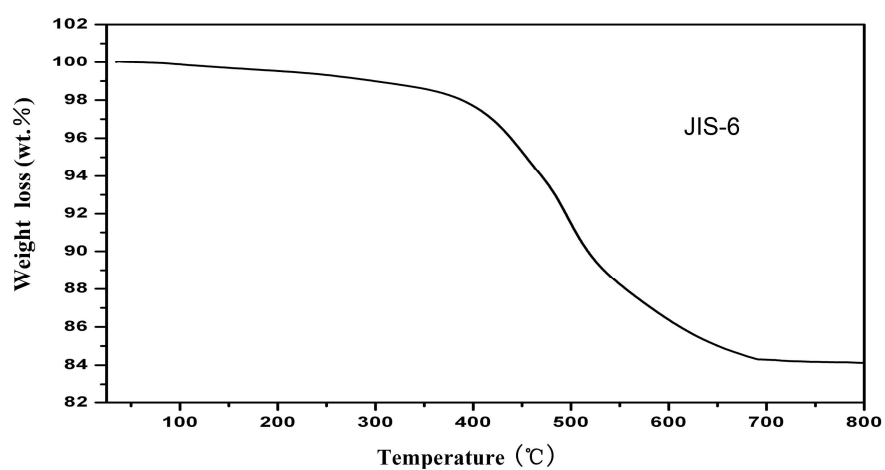
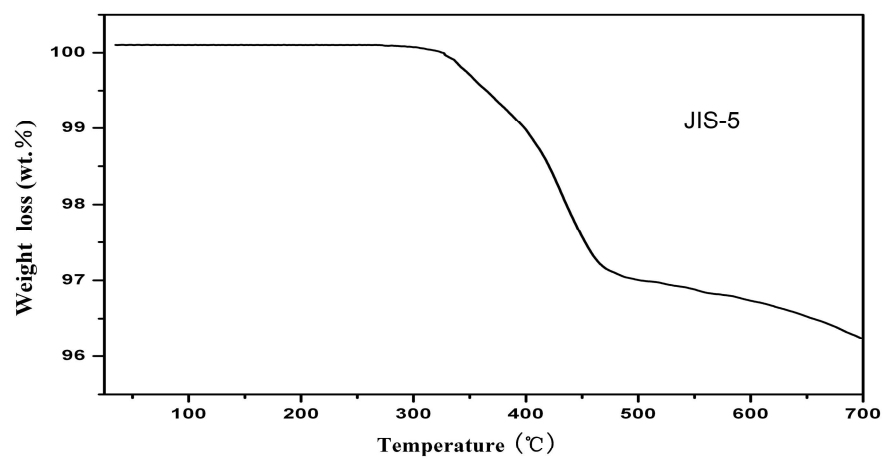
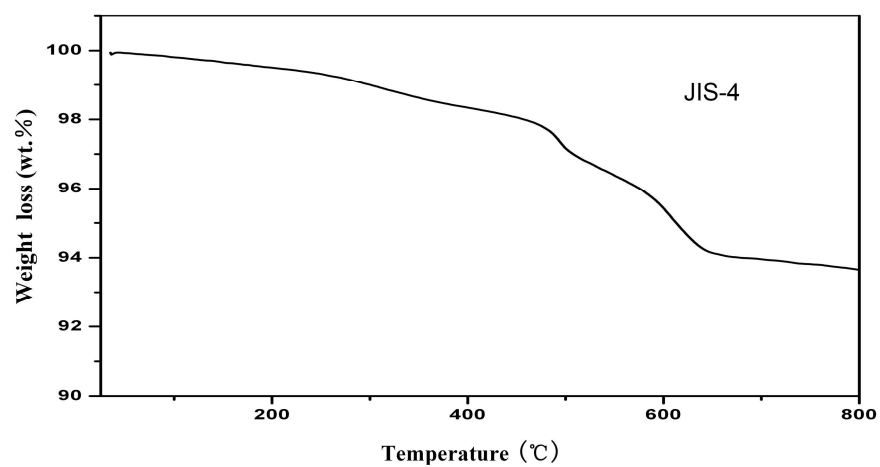


Figure S3

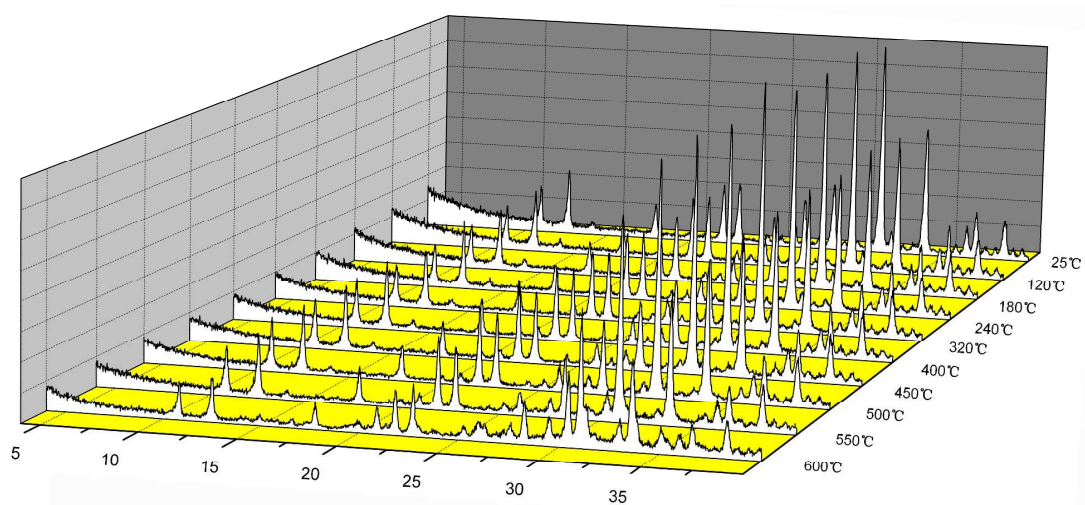


Figure S4

Table S1. ICP results of JIS-4, JIS-5 and JIS-6

	JIS-4		JIS-5		JIS-6	
	Exp (wt %)	Cald (wt %)	Exp (wt %)	Cald (wt %)	Exp (wt %)	Cald (wt %)
Na	15.9	15.7				
K			14.1	14.5		
Co	19.9	20.2			11.0	10.7
Mn			14.8	15.1		
B	2.4	2.8	3.2	2.9	3.6	3.9
P	17.8	17.6	21.0	21.3	22.9	22.5