ESI

Investigation of structure and ionic conductivity for intercalated kaolinites with potassium acetate in hydrous and anhydrous phases

Xiao-Pei Li,[a] Hao Yang,[a] Zheng-Fang Tian,*[a,b] Jian-Lan Liu,[a] Xiao-Ming Ren*[a,c,d]

[a] State Key Laboratory of Materials-Oriented Chemical Engineering and College of Science, Nanjing Tech University, Nanjing 210009, P. R. China

[b] School of Chemical Engineer, Huanggang Normal University, Huanggang 438000, P. R. China

[c] College of Materials Science and Engineering, Nanjing Tech University, Nanjing 210009, P. R. China

[d] Coordination Chemistry Institute & State Key Laboratory, Nanjing University, Nanjing 210093, P. R. China

Xiao-Pei Li and Hao Yang contribute equally

Tel.: +86 25 58139476

Fax: +86 25 58139481

Email: xmren@njtech.edu.cn

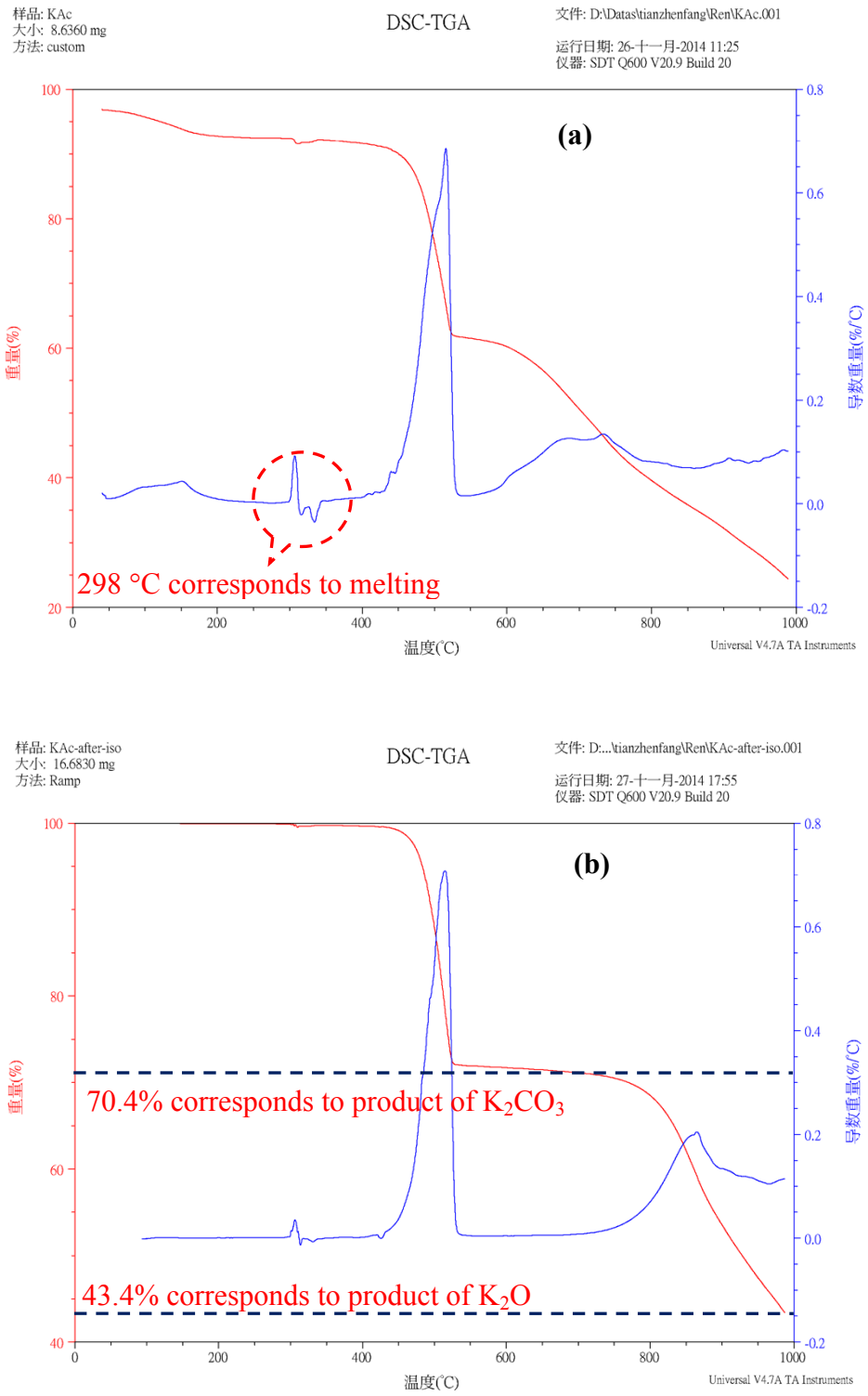

Figure S1 Thermogravimetric Curves of (a) hydrous KAc·0.5H_2O and (b) anhydrous KAc.

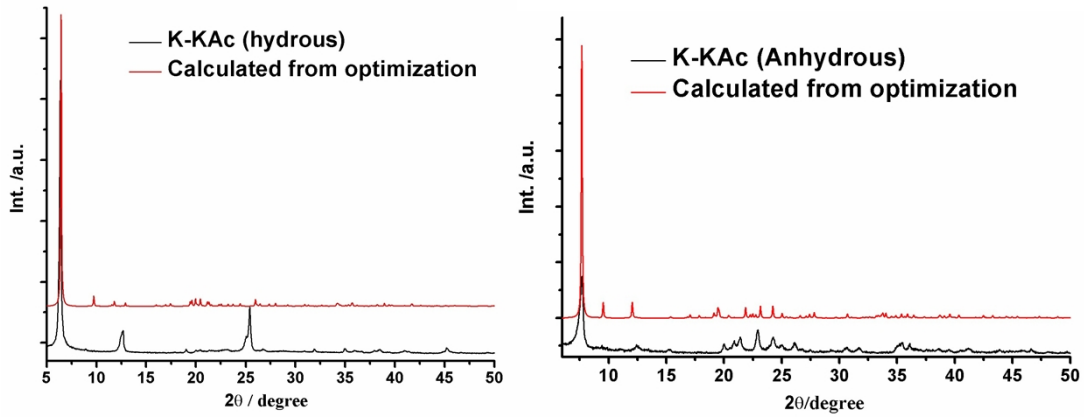

Figure S2 Experimental and calculated PXRD patterns of (a) hydrous and (b) anhydrous models, respectively.

Table S1 The calculated resistances of boundary (R_1) and block (R_2) derived from the fit at selected temperatures, respectively.

T / K	R_1 / ohm	R_2 / ohm
423	7.961E5	8.001E5
418	1.637E6	2.506E6
413	4.027E6	5.167E6
408	8.727E6	9.254E6
403	1.32E7	1.684E7
398	6.452E7	6.581E7