1   Supplemental materials for

2   In−situ observation for RH−dependent mixing states of submicron

3   particles containing organic surfactants and inorganic salts

4   Chun Xiong[1#], Binyu Kuang[1#], Fei Zhang[1], Xiangyu Pei[1], Zhengning Xu[1], Zhibin Wang[1,2,3*]

5

6   [1]College of Environmental and Resource Sciences, Zhejiang University, Zhejiang Provincial Key

7   Laboratory of Organic Pollution Process and Control, Hangzhou, China

8   [2]ZJU-Hangzhou Global Scientific and Technological Innovation Center, Hangzhou, China

9   [3]Key Laboratory of Environment Remediation and Ecological Health, Ministry of Education, Zhejiang

10   University, Hangzhou, China

11   *_Correspondence to_ Zhibin Wang (wangzhibin@zju.edu.cn)

12   [#] Chun Xiong and Binyu Kuang contribute equally to this work.

13

14   Figure S1-S2

15
16
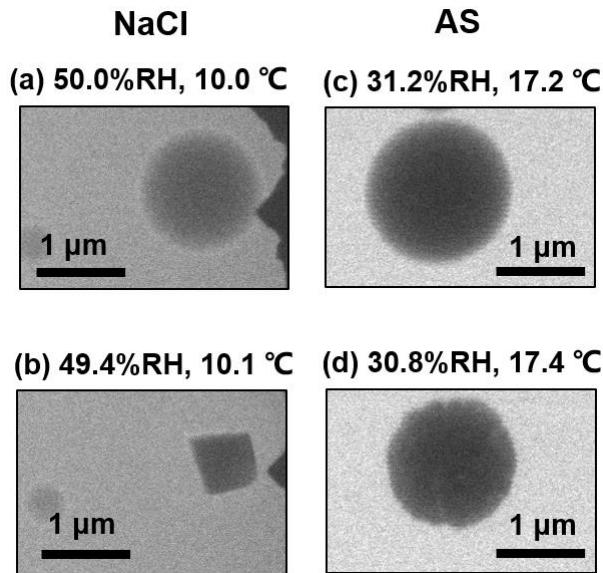
Figure S1 ESEM images of efflorescence processes for (a−b) NaCl and (c−d) AS particles.
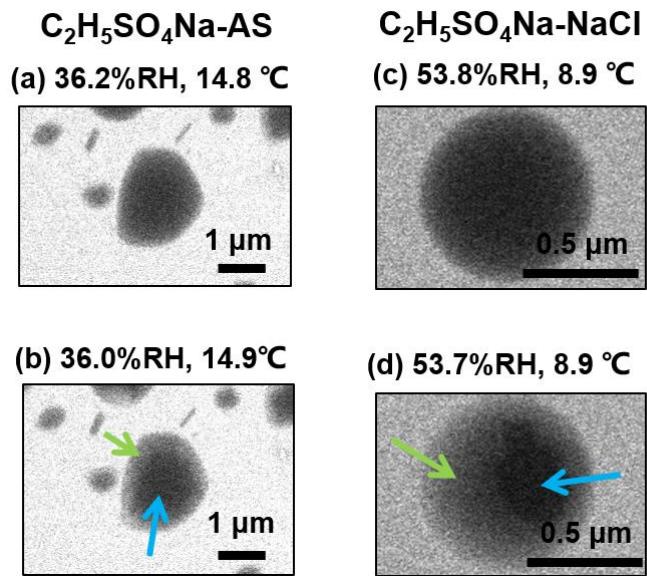
Figure S2. ESEM images of efflorescence of (a−b) AS−C₂H₅SO₄Na and (c−d) NaCl−C₂H₅SO₄Na with 70% OVF.