

Thermal stability of enzyme-MOF composites under extremely high temperature

Shitong Cui¹, Jun Ge^{1, 2, *}

1 Key Lab for Industrial Biocatalysis, Ministry of Education, Department of Chemical Engineering, Tsinghua University, Beijing 100084, China

2 Institute of Biopharmaceutical and Health Engineering, Tsinghua Shenzhen International Graduate School, Shenzhen 518055, Guangdong, China

Supplementary material

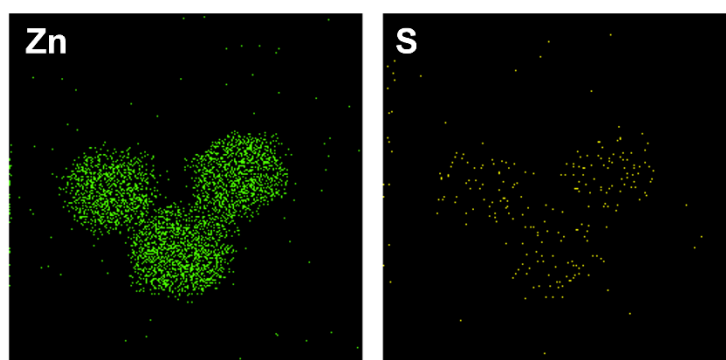


Figure S1. EDS mapping of elemental distribution of Zn and S within CALB-ZIF-8.

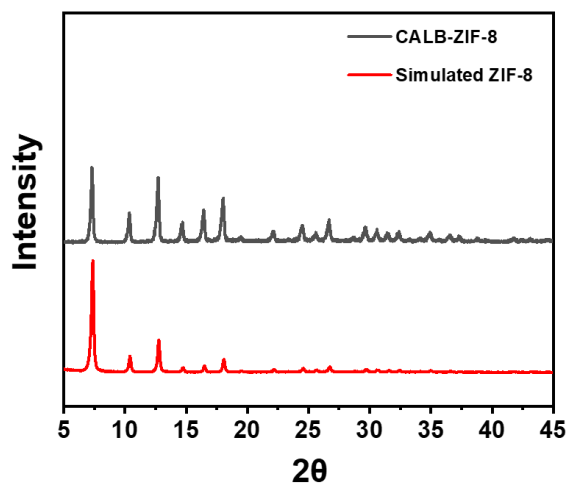


Figure S2. XRD patterns of CALB-ZIF-8 composites.

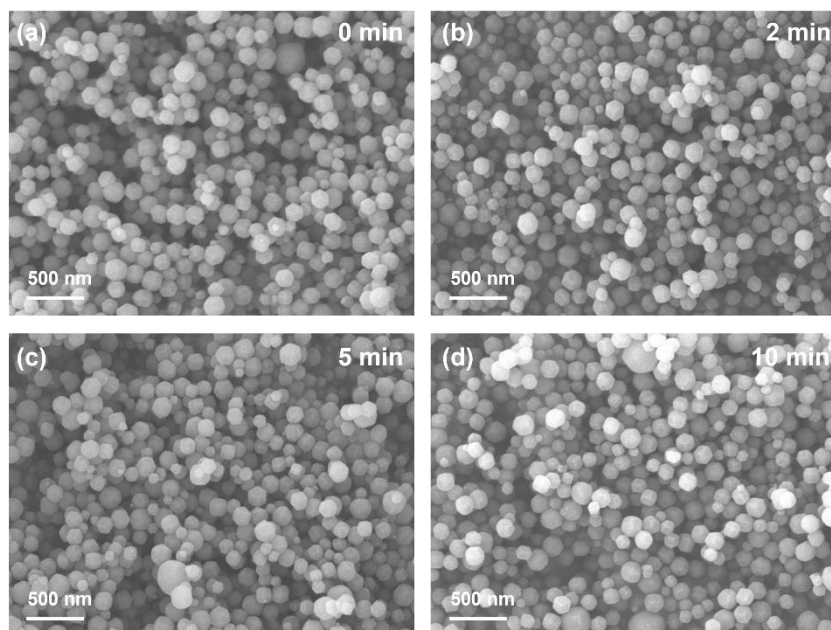


Figure S3. SEM images of CALB-ZIF-8 after heating for different time.

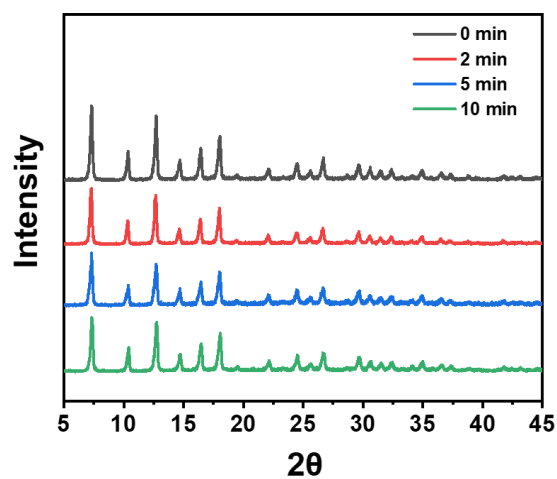


Figure S4. XRD patterns of CALB-ZIF-8 after heating for different time.

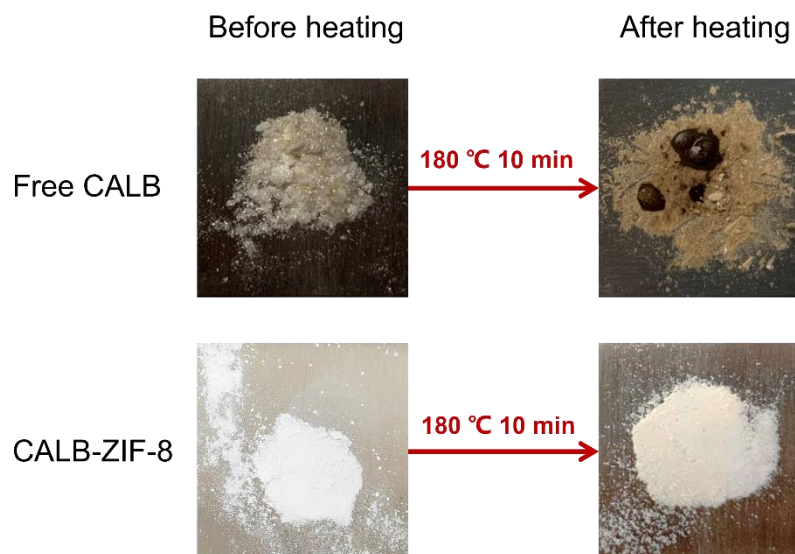


Figure S5. Pictures showing the free CALB and CALB-ZIF-8 before and after heating.

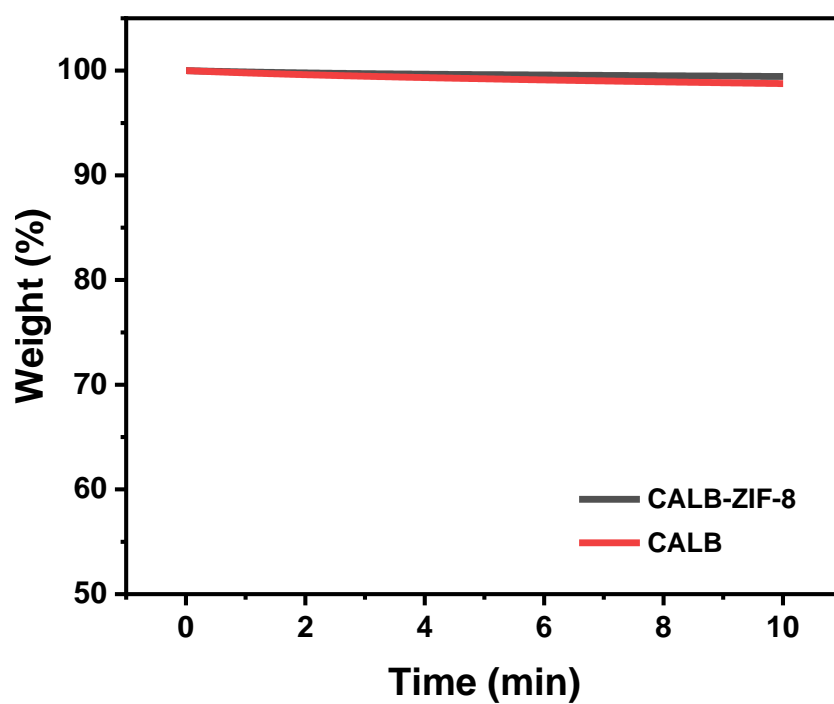


Figure S6. TGA data of free CALB and CALB-ZIF-8 when heating at 180 °C for 10 min.

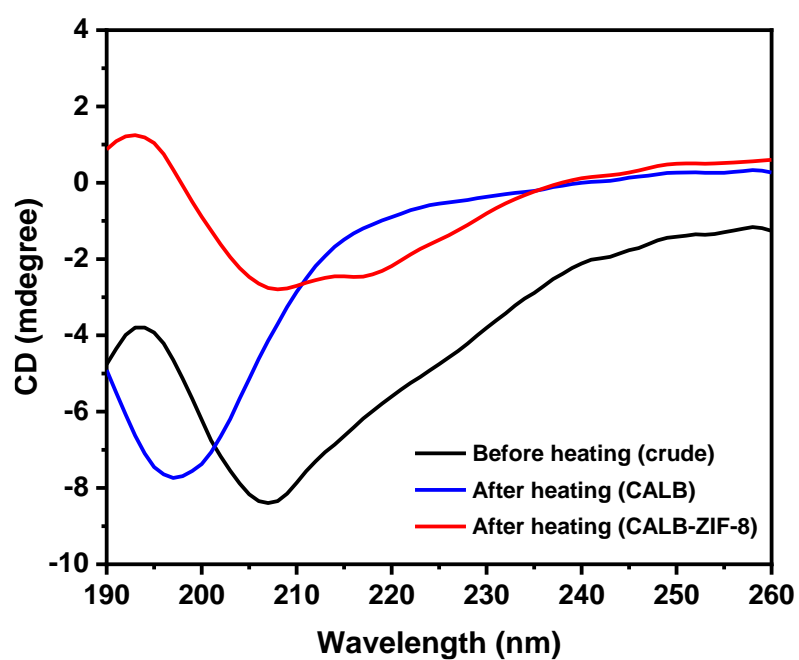


Figure S7. CD spectrograms of CALB before and after heating at 180 °C for 10 min, where “crude” refers to unheated CALB, “CALB” refers to free CALB after heating at 180 °C for 10 min and “CALB-ZIF-8” refers to CALB released from ZIF-8 after heating at 180 °C for 10 min.