Simultaneous function of Na₂EDTA on phase transformation and morphology evolution during the transformation of gypsum into α -calcium sulfate hemihydrate

Anni Xiao, abc Caiyun Jia, abc Xiaoxia Fang, abc Jiang Zhao, abc Haijun Zhang bc Caiyun Jia, abc Xiaoxia Fang, abc Jiang Zhao, abc Haijun Zhang bc Zhao, abc Haijun Zhang bc Zhao, abc Haijun Zhang bc Zhao, abc Zhao, a

* Corresponding authors

^a School of Chemical Engineering and Technology, China University of Mining and Technology, Xuzhou

221116, China

Email: zhjcumt@163.com

^b National Engineering Research Center of Coal Preparation and Purification, China University of Mining and

Technology, Xuzhou 221116, China

^c National Key Laboratory of Coking Coal Resources Green Development, China University of Mining and

Technology, Xuzhou 221116, China

E-mail: jiacaiyun2014@zju.edu.cn

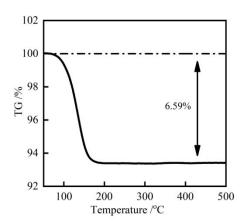


figure s1 TG curves of the final sample prepared from transformation of gypsum in the presence of 0.15 mM

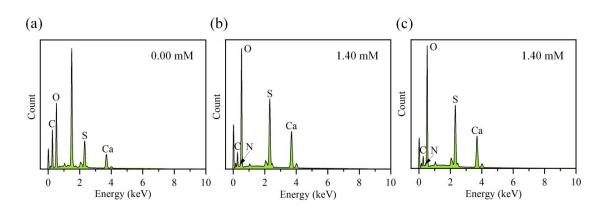


figure s2 EDS spectra of α -HH crystals obtained at different Na₂EDTA concentrations at 90 °C: (a) 0.00 mM, (b) 1.40 mM, (c) 1.40 mM.

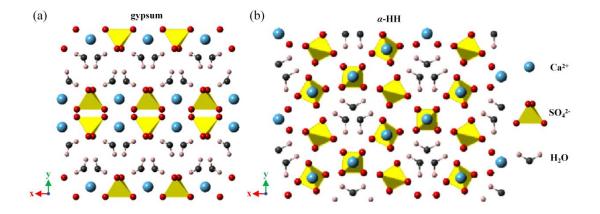


figure s3 The specific crystal structures of gypsum and α -HH

 Na_2EDTA