Bioinspired assembly of layered double hydroxide/carboxymethyl chitosan bionanocomposite hydrogel films

Yi Wang and Dun Zhang*

Key Laboratory of Marine Environmental Corrosion and Bio-fouling, Institute of Oceanology, Chinese Academy of Sciences, Qingdao 266071, P. R. China

[*] Prof. Dun Zhang
Key Laboratory of Marine Environmental Corrosion and Bio-fouling, Institute of Oceanology, Chinese Academy of Sciences, Qingdao 266071, P. R. China. Fax: +86 532 82898960; Tel: +86 532 82898960; E-mail: zhangdun@qdio.ac.cn
**Fig. S1** FT-IR spectra of the pure CMC film and the C-LDH/CMC bionanocomposite films with different C-LDHs mass contents (in the range of 700-400 cm\(^{-1}\))

**Fig. S2** Variation of pH with the reaction time
**Fig. S3** Tensile strength–strain curves for the pure CMC film and the C-LDH/CMC bionanocomposite films with different C-LDHs mass contents