Supplementary information

Ionic liquid-graphene oxide hybrid nanomaterial: synthesis and anticorrosive applications

Chengbao liu[a,b], Shihui Qiu[a], Peng Du[a], Haichao Zhao[a], and Liping Wang*[a]*

[†]Key Laboratory of Marine Materials and Related Technologies, Zhejiang Key Laboratory of Marine Materials and Protective Technologies, Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences, Ningbo 315201, P. R. China

[‡] University of Chinese Academy of Sciences, Beijing 100049, P. R. China

[§] Institute of Marine Science and Technology, Shandong University, Qingdao 266237, P. R. China

Corresponding author

∗ *E-mail addresses*: zhaohaichao@nimte.ac.cn (H. Zhao)

wangliping@nimte.ac.cn (L P. Wang)

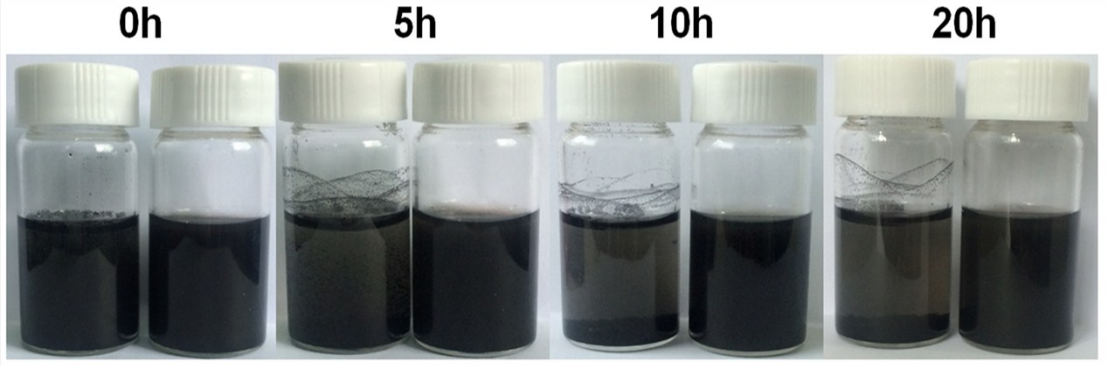

Fig. S1 The dispersion stability for rGO (left) and IL-GO (right) aqueous solution at different times.

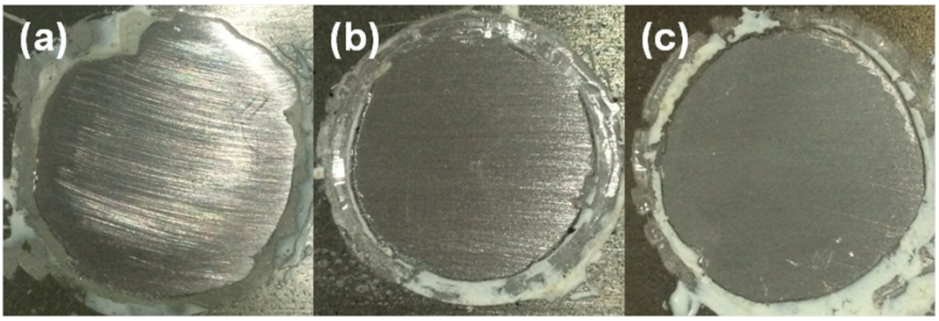

Fig. S2 Visual performances of different samples after pull-off test (a) pure epoxy, (b) $rGO_{0.5\%}$ and (c) $IL\text{-}GO_{0.5\%}$.

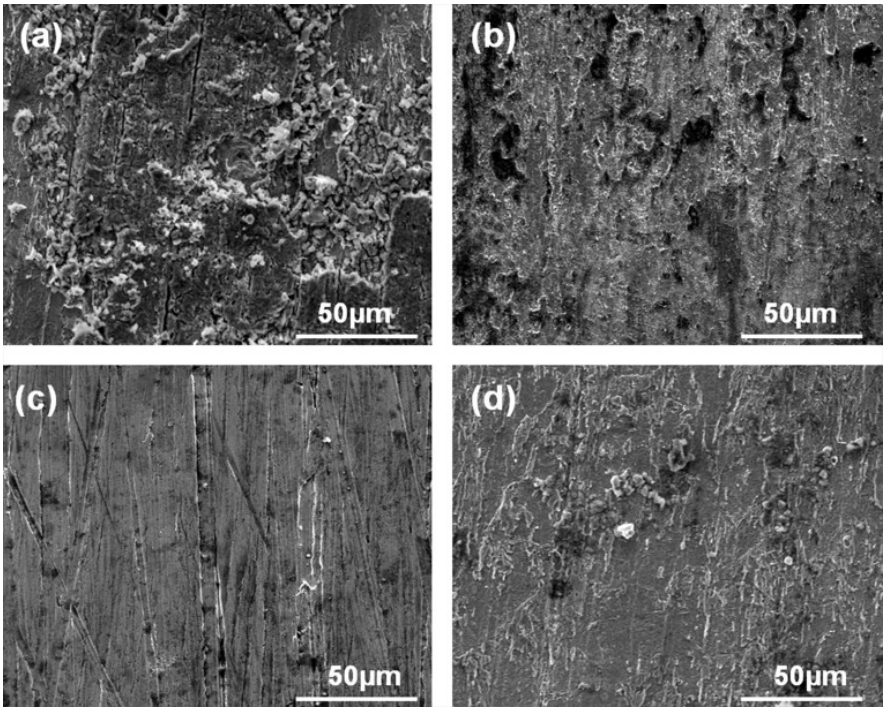

Fig. S3 SEM images for steel substrate beneath (a) pure epoxy, (b) $rGO_{0.5\%}$, (c) IL-$GO_{0.5\%}$ and (d) IL-$GO_{1\%}$.

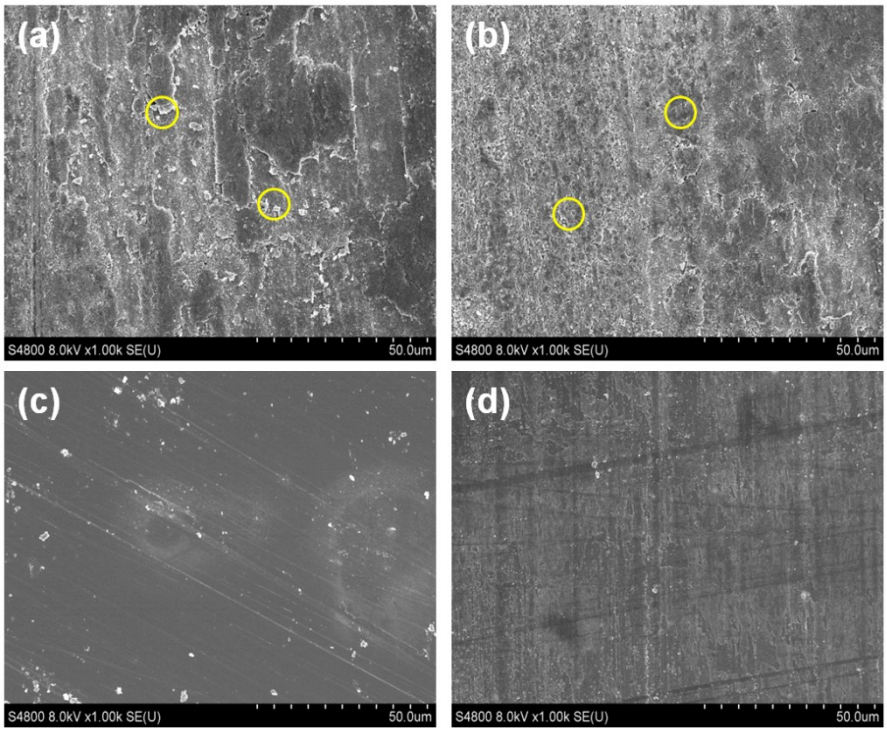

Fig. S4 Morphology of composite coatings after electrochemical test (a) pure epoxy, (b) $rGO_{0.5\%}$, (c) IL-$GO_{0.5\%}$, (d) IL-$GO_{1\%}$.