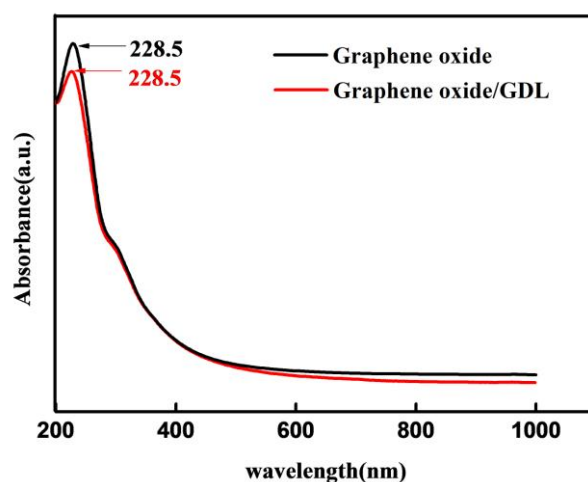


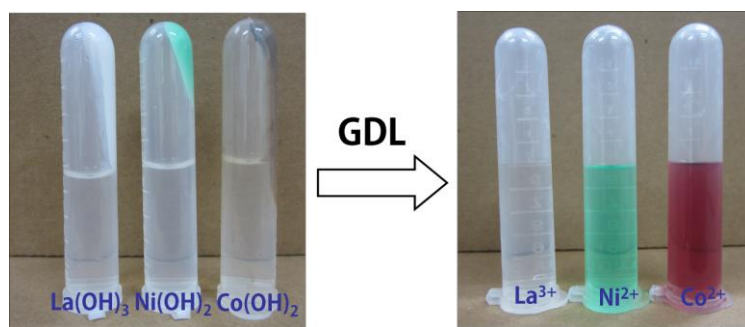
## Electronic Supplementary Information:

Glucono- $\delta$ -lactone controlled assembly of graphene oxide hydrogels with selectively reversible gel-sol transition

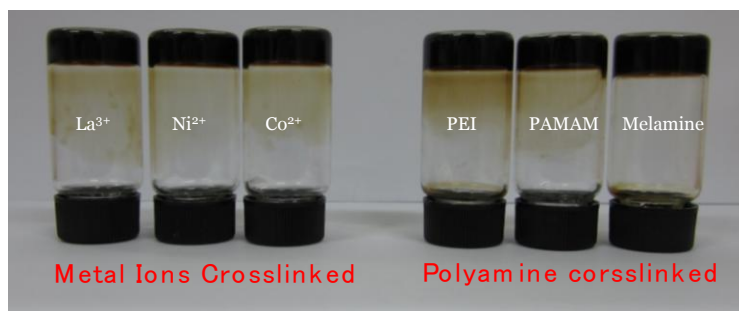
Huan Huang, Shaoyi Lü, Xuetong Zhang\* and Ziqiang Shao



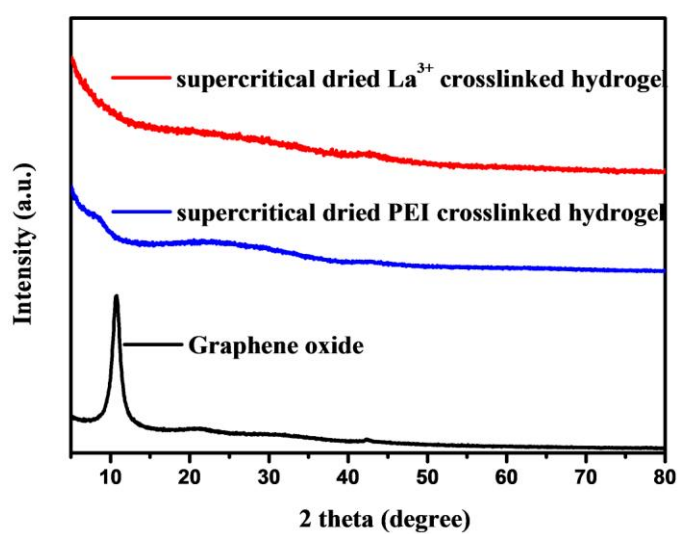
**Fig. S1** UV-Vis spectra of GO and its mixture with GDL.



**Fig. S2** Precipitations obtained with centrifugation of  $\text{La}(\text{OH})_3$ ,  $\text{Ni}(\text{OH})_2$ , and  $\text{Co}(\text{OH})_2$  suspensions were totally dissolved after introduction of enough amounts of GDL after 24 hours.



**Fig. S3** Digital photos of GO hydrogels with different crosslinkers



**Fig. S4** XRD patterns of supercritical dried  $\text{La}^{3+}$  and PEI cross-linked GO hydrogels.