Supporting Information

High Accessible Hierarchical Porous Carbon from Bifunctional Ionic Liquid Bulky Gel: High-Performance Electrochemical Double Layer Capacitors

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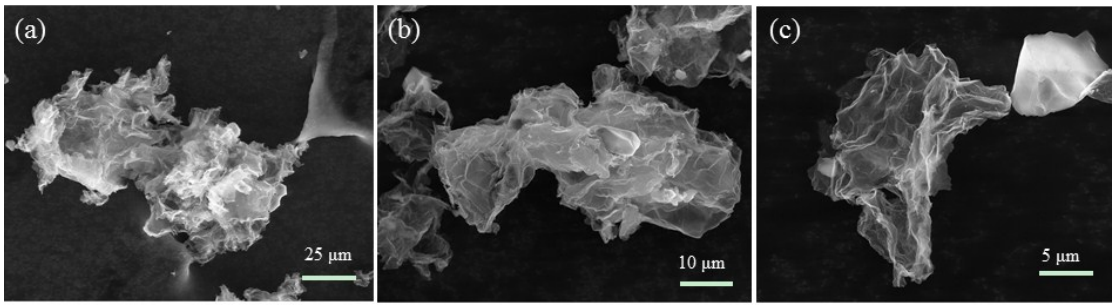

Figure S1. Low magnification SEM images of GGI

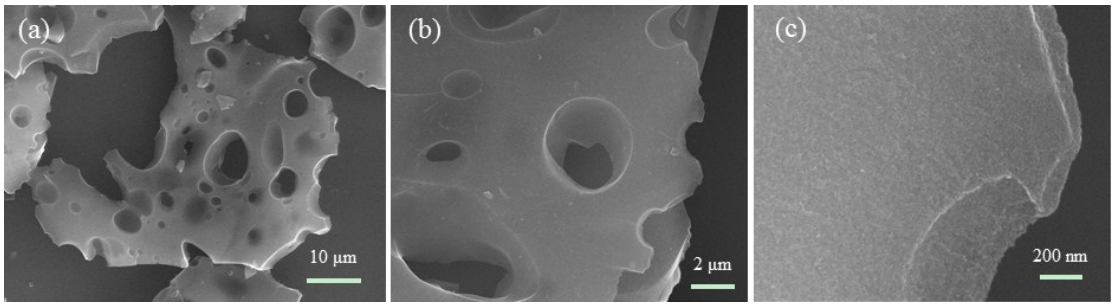

Figure S2. (a), (b) and (c) SEM images of IG

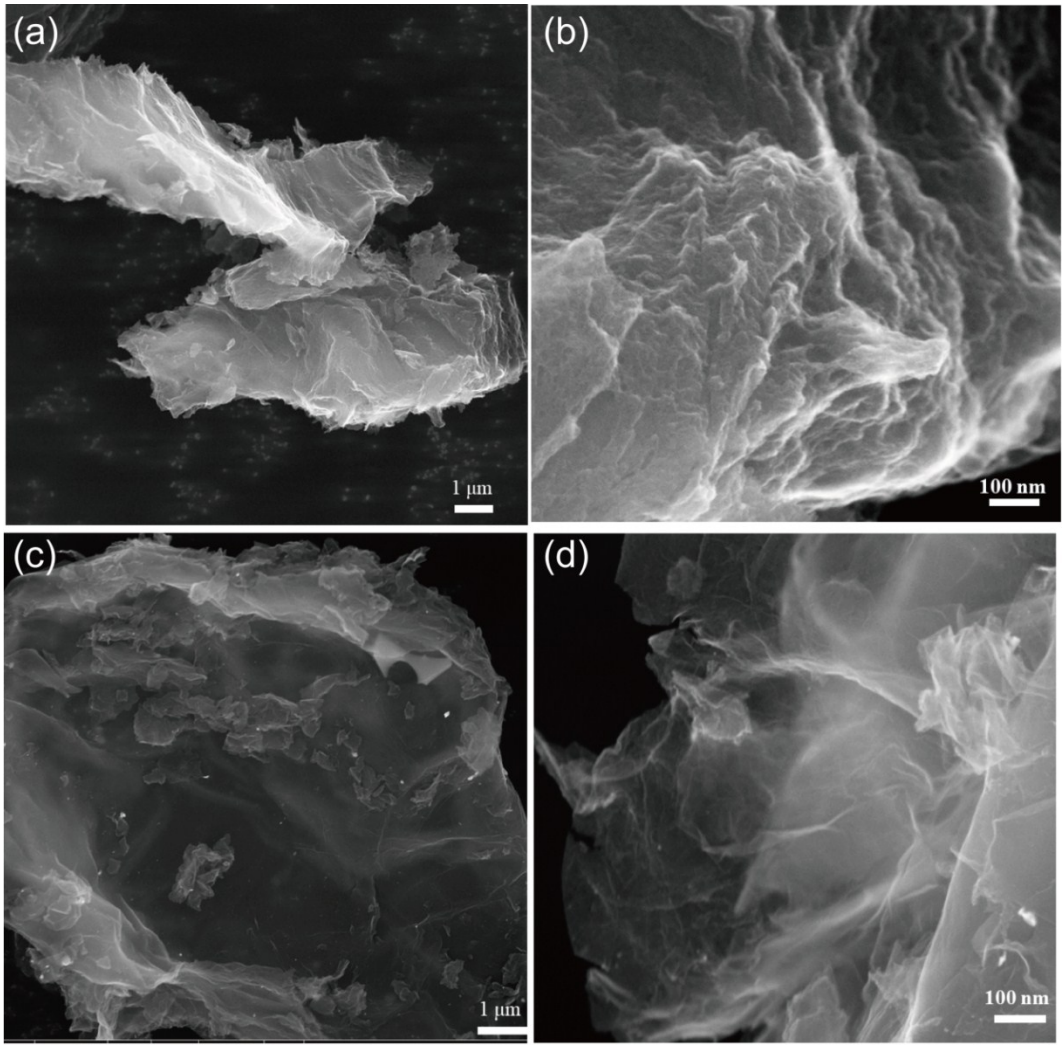

Figure S3 (a) and (b) SEM images of GG ; (c) and (d) SEM images of GI

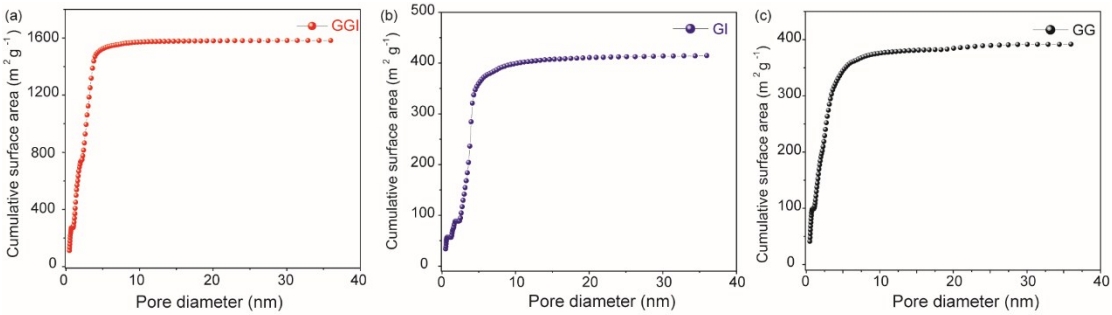

Figure S4. Cumulative surface area of (a) GGI; (b) GI and (c) GG

Table 1. Summary of various surface areas of porous carbon

Sample	S_{BET} (m^2 g^{-1})	S_{micro} (m^2 g^{-1})	S_{meso} (m^2 g^{-1})
GG	391.6	184.1	207.5
GI	414.4	88.3	326.1
GGI	1581.2	715.2	866

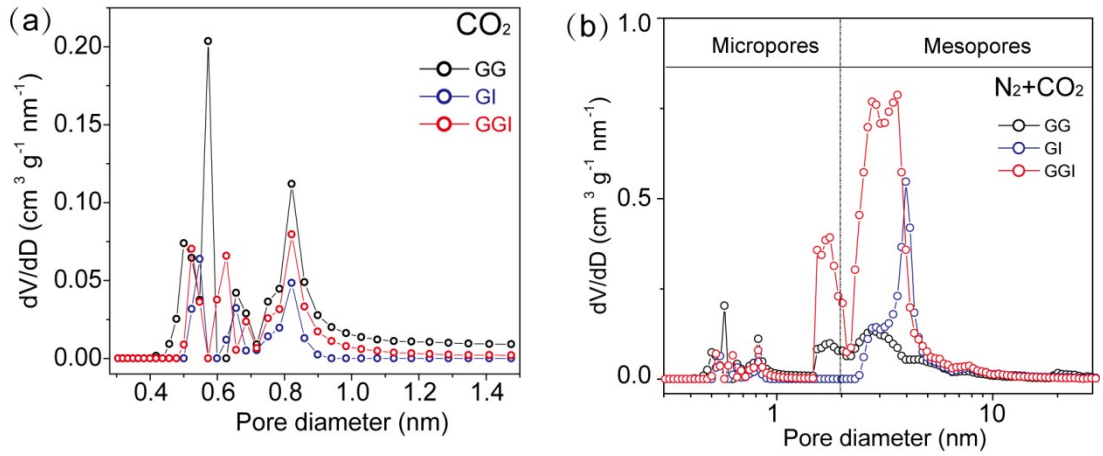

Figure S5. Pore size distribution of GGI, GI and GG

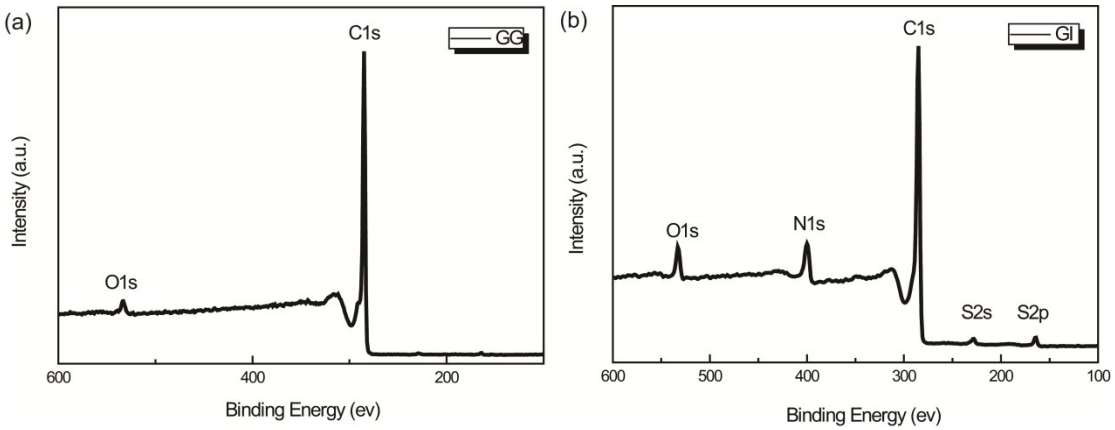

Figure S6. XPS survey spectra of (a) GG and (b) GI

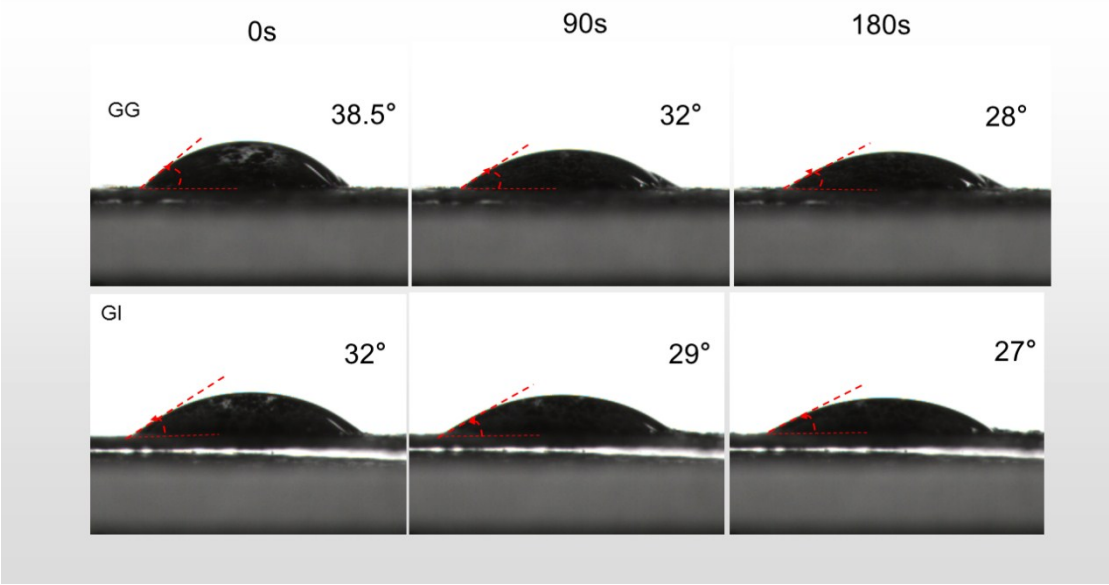

Figure S7. Dynamic contact angle of EmimTFSI on GG and GI

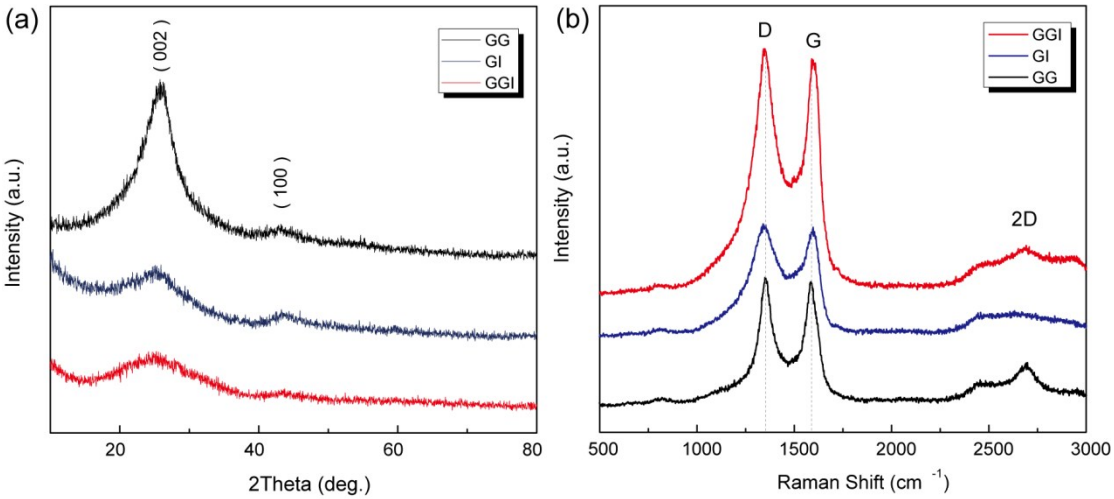

Figure S8. (a) XRD curves and (b) Raman spectra of GGI, GI and GG.

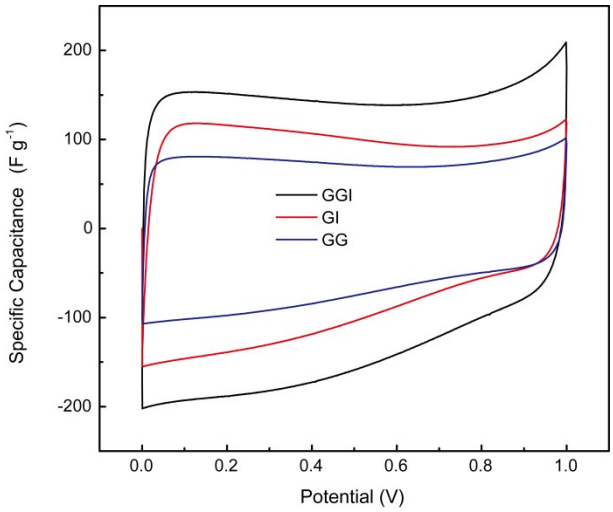

Figure S9. CV curves of GGI ,GI and GG at 10 mV s-1.

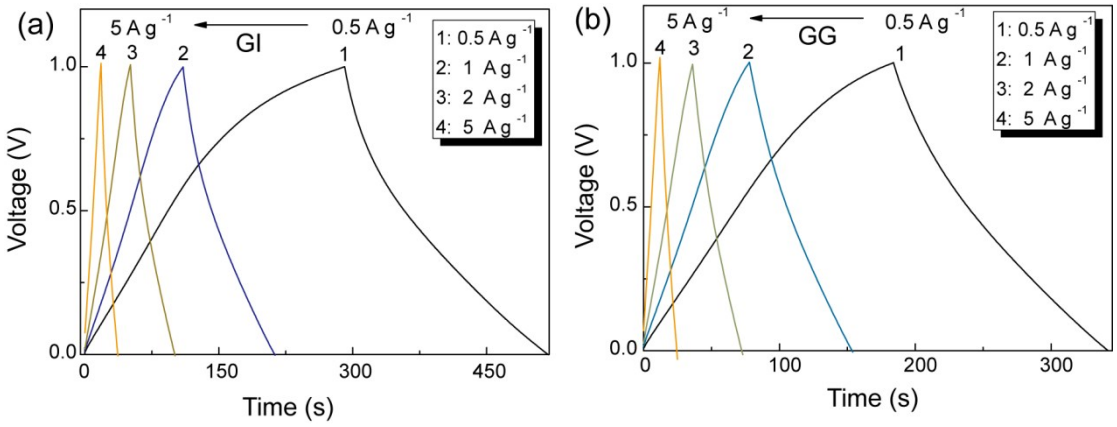

Figure S10. Galvanostatic charge/discharge curves at different current densities for (a) GI and (b) GG

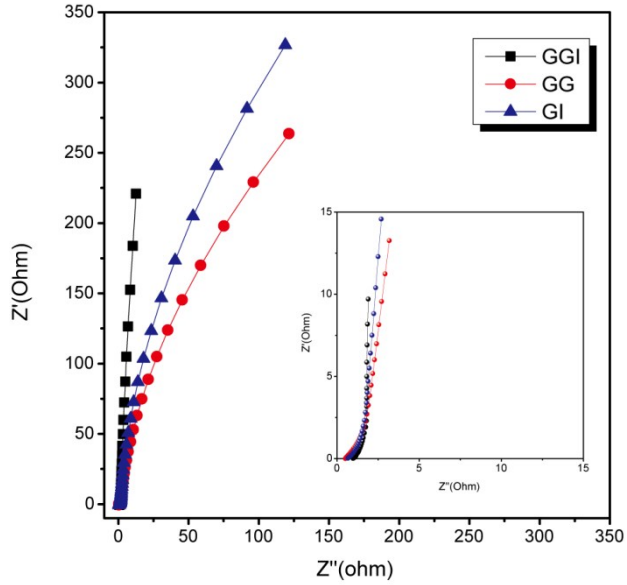

Figure S11. Nyquist plot of GGI, GI and GG in aqueous electrolyte

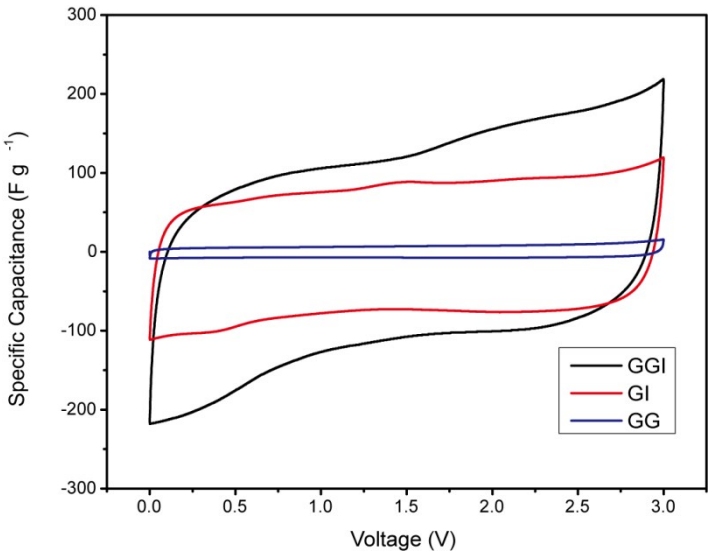

Figure S12. CV curves of GI and GG at 10 mV s^{-1}

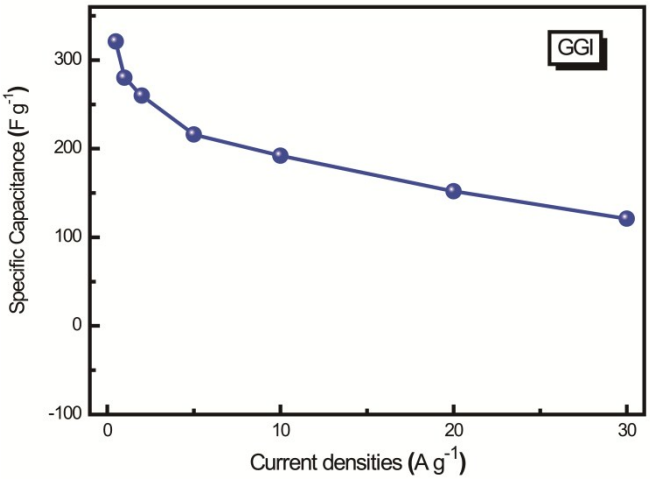

Figure S13. Specific capacitances of GGI at different current densities with EmimTFSI as electrolyte

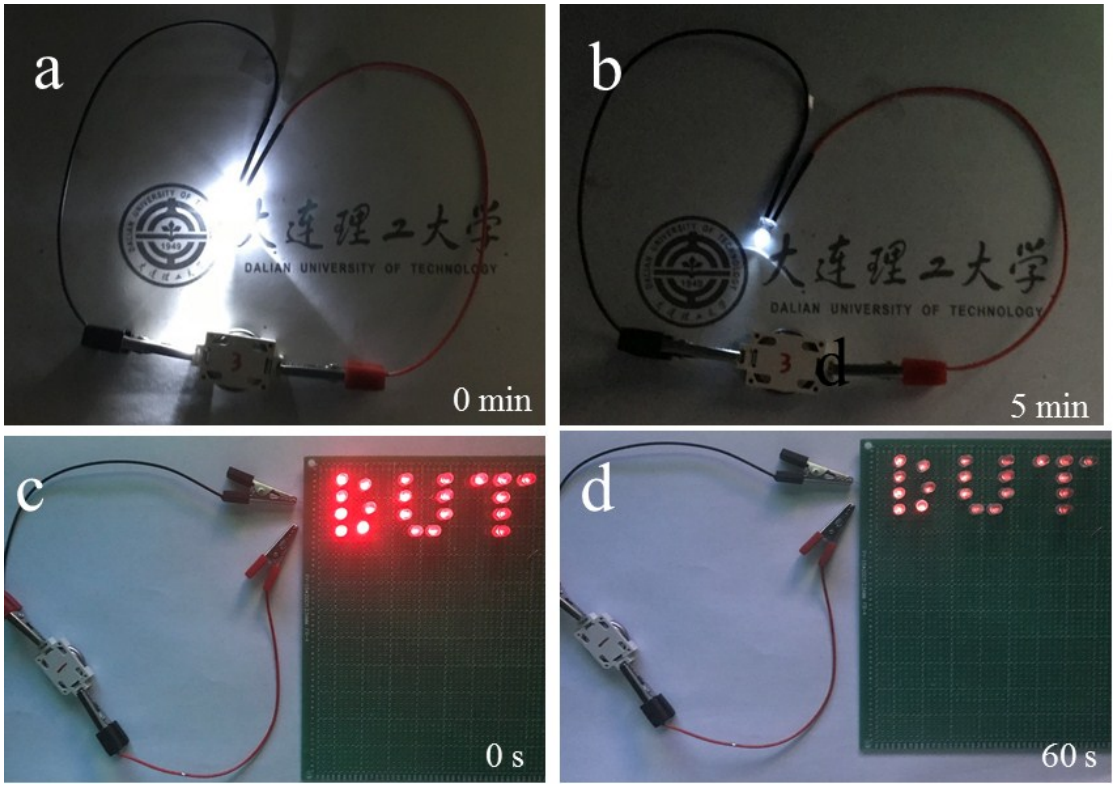

Figure S14. Photograph of lighting LED bulbs. (a) and (b) one symmetric EDLC device lighting up a white LED bulb; (c) and (d) one symmetrical cell lighting up 21 LED bubbles assembled as DUT symbols

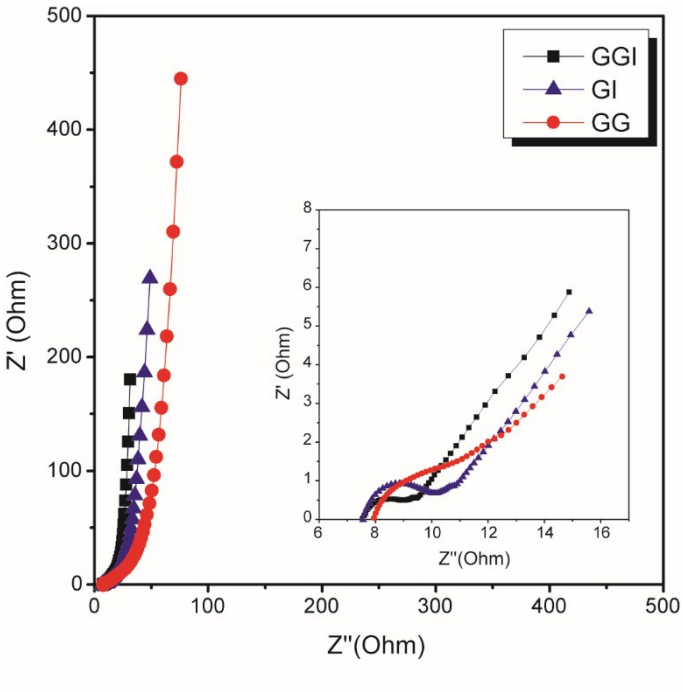

Figure S15. Nyquist plot of GGI, GI and GG in IL electrolyte