

Electronic Supplementary Information

Novel chemical cross-linked ionogel based on acrylate terminated hyperbranched polymer with superior ionic conductivity for high performance lithium-ion batteries

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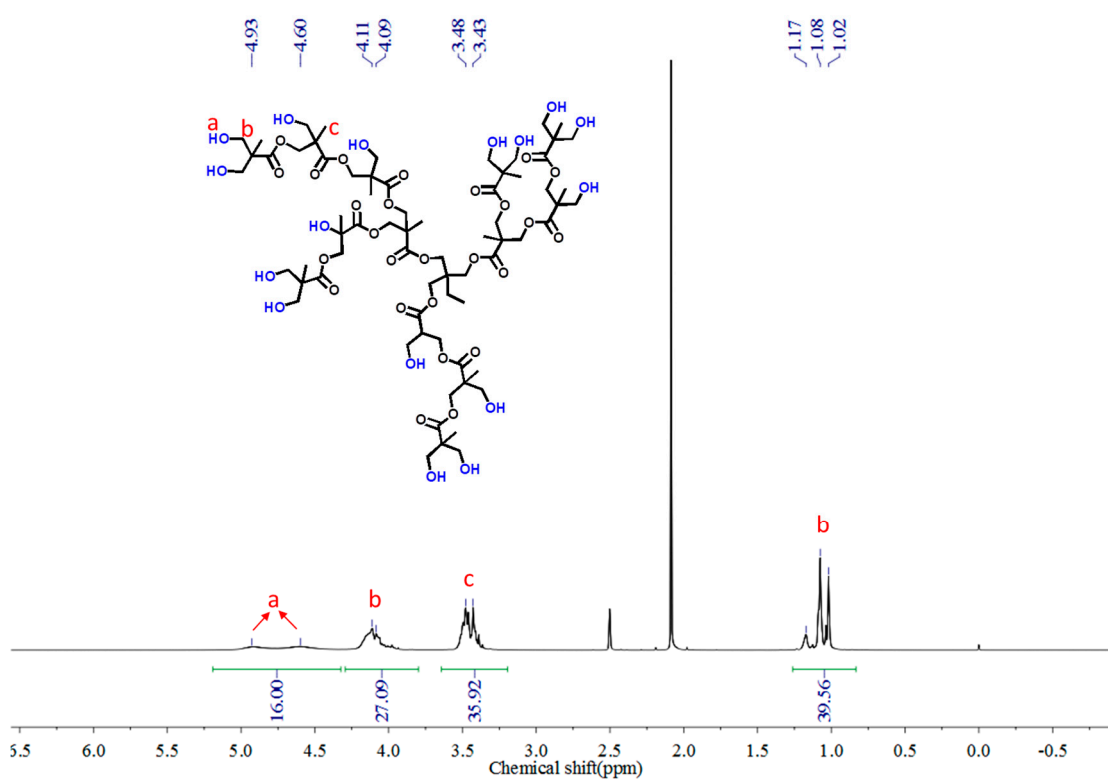


Figure S1 ^1H NMR spectra of HP-OH.

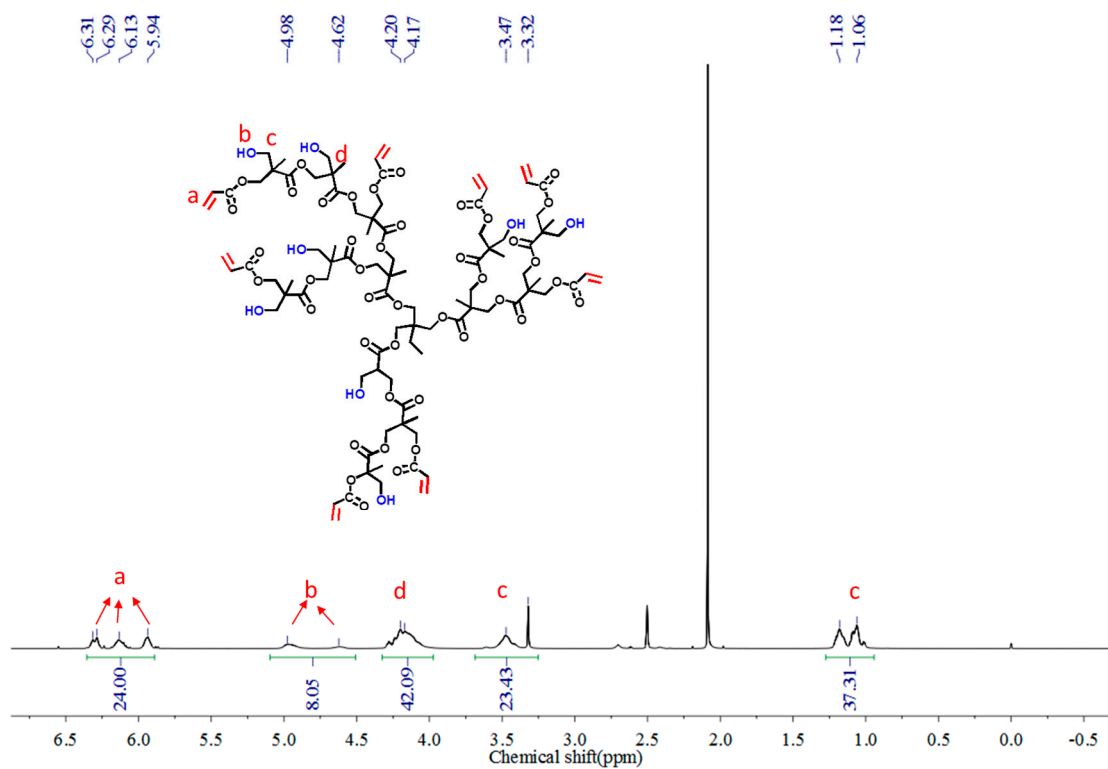


Figure S2 ^1H NMR spectra of HP-A.

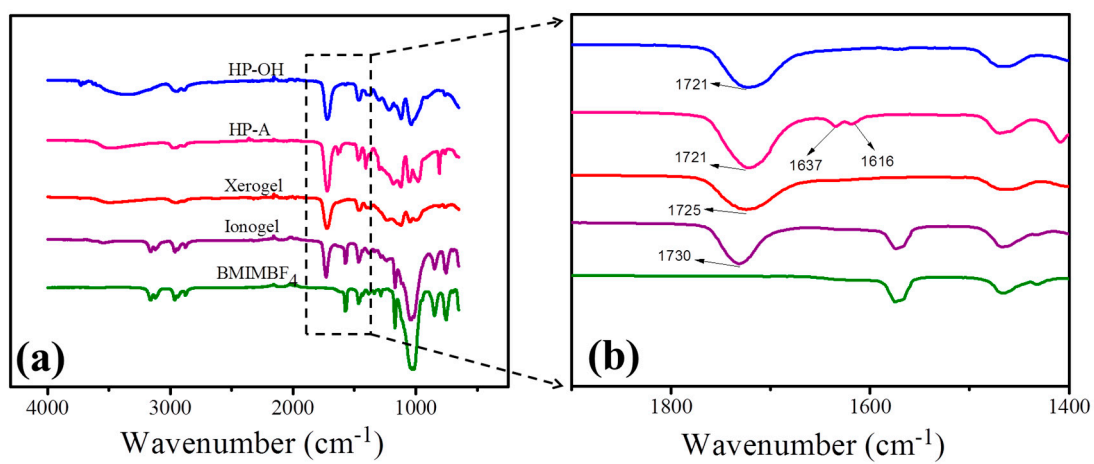


Figure S3 (a) FTIR patterns of neat HP-OH, HP-A, BMIMBF₄, Xerogel, and ionogels. (b) The right pattern is the magnified FTIR patterns from 1400 to 1900 cm^{-1} .

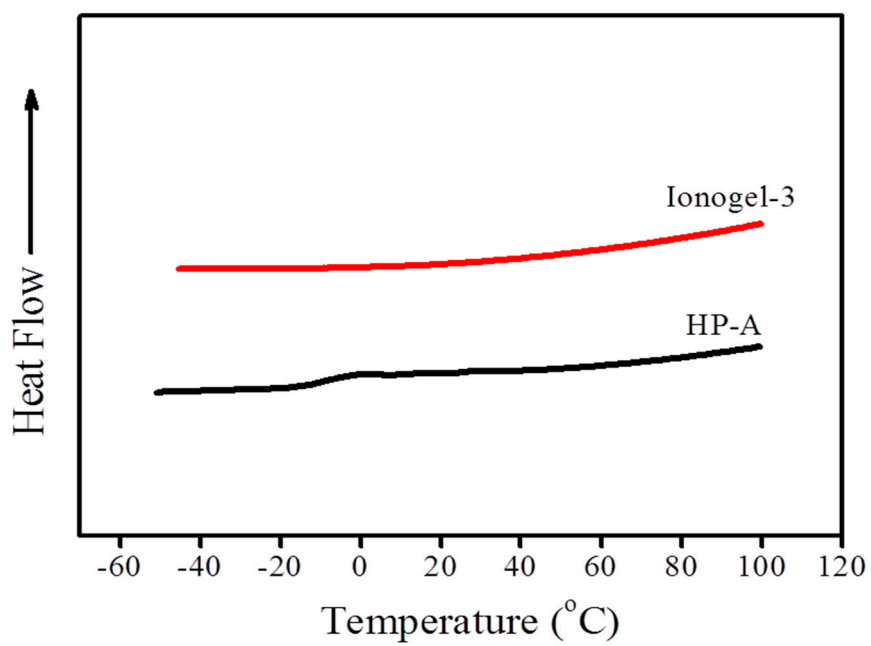


Figure S4 The melting DSC curves of HP-A and Ionogel-3 at a heating rate of 20 °C/min.

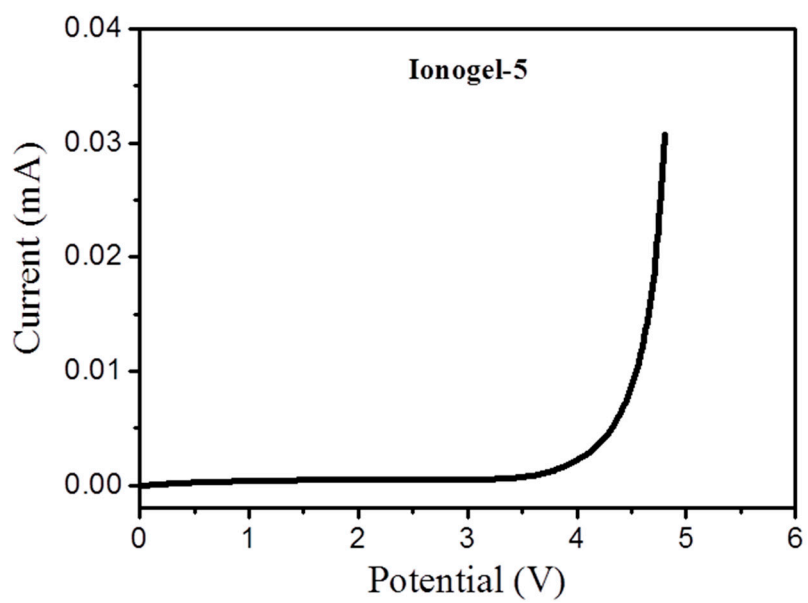


Figure S5 Linear sweep voltammograms of ionogel-5 at room temperature.