

Supplementary Information

Stable LATP/LAGP double-layer solid electrolyte prepared via a simple dry-pressing method for solid state lithium ion batteries

Erqing Zhao^a, Furui Ma^{a,b}, Yudi Guo^c, Yongcheng Jin^{a,*}

^a Qingdao Key Laboratory of Solar Energy Utilization and Energy Storage Technology, Qingdao Institute of Bioenergy and Bioprocess Technology, Chinese Academy of Sciences, Qingdao, 266101, PR China

^b University of Chinese Academy of Sciences, Beijing 100190, P. R. China

^c Key Laboratory of Marine Environmental Corrosion and Bio-fouling, Institute of Oceanology, Chinese Academy of Sciences, Qingdao 266071, PR China

* Corresponding author: Prof. Yongcheng Jin

E-mail: jinye@qibebt.ac.cn

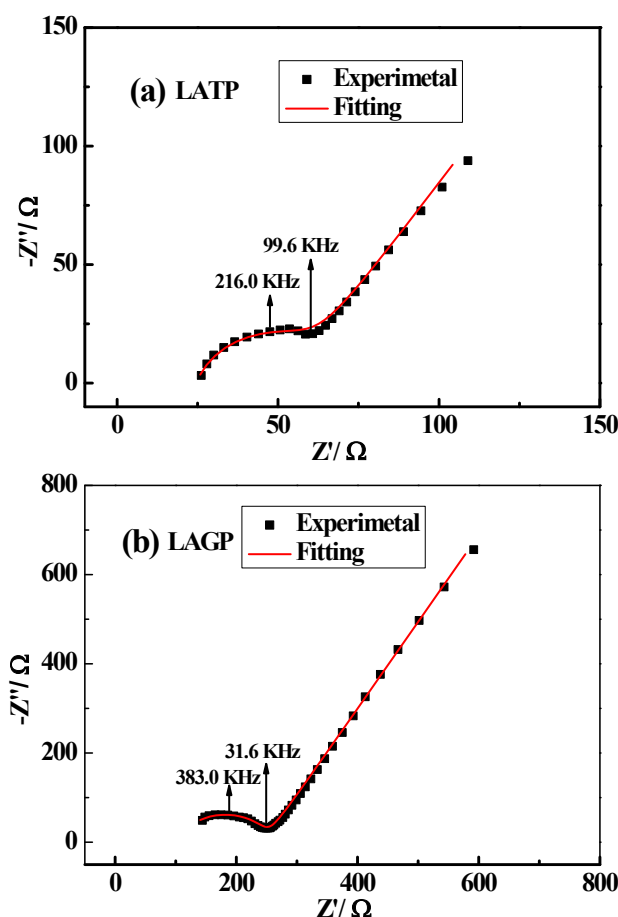


Fig. S1 The typical Nyquist plots of LATP and LAGP electrolytes measured at 25 °C.

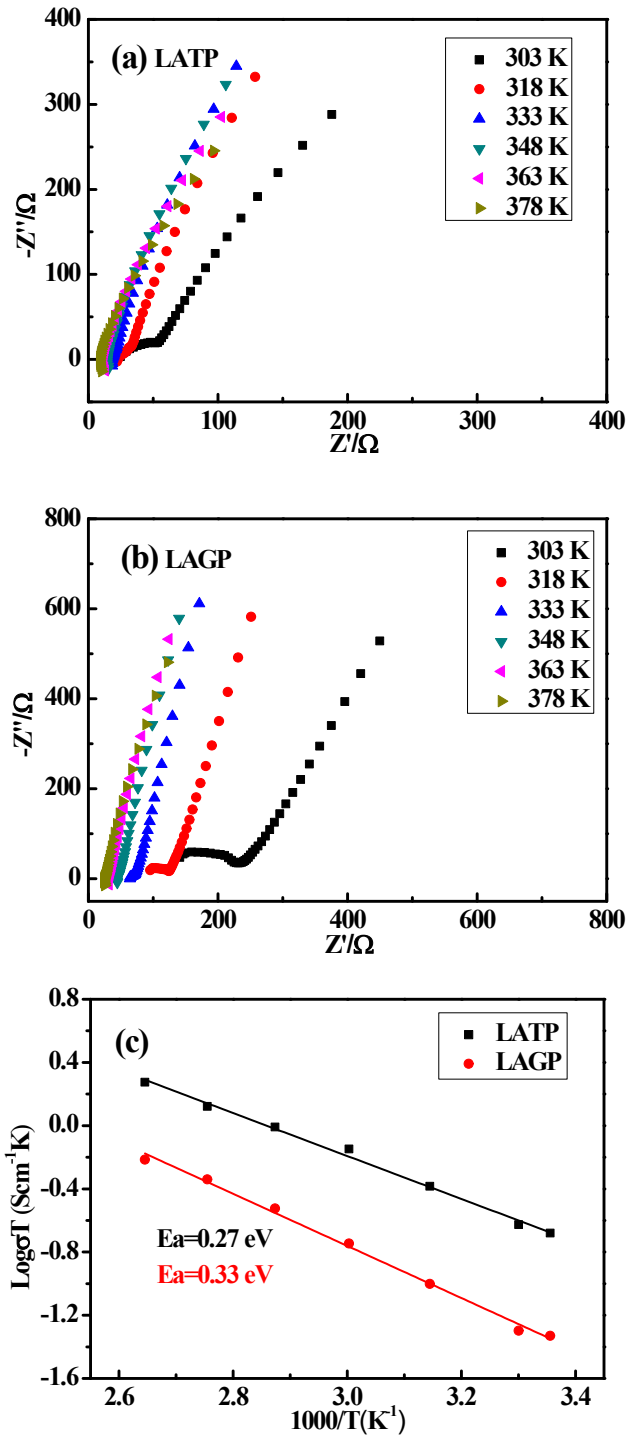


Fig. S2 (a) The complex impedance spectra of LATP sample measured in the range of 303 K to 378 K; (b) The complex impedance spectra of LAGP sample measured in the range of 303 K to 378 K; (c) The Arrhenius plots for the relationship between the total electrical conductivity and the inverse temperature.