Electronic Supplementary Material (ESI) for RSC Advances.

Supporting Information

Synergic Effect of CaI_2 and LiI on Ionic Conductivity of Solution-based Synthesized $Li_7P_3S_{11}$ Solid Electrolyte

Tran Anh Tu[1,2,3], Tran Viet Toan[1,2], Luu Tuan Anh[1,2], Le Van Thang[1,2,3], Nguyen Huu Huy Phuc[1,2,3*]

[1]Faculty of Materials Technology, Ho Chi Minh City University of Technology (HCMUT), 268 Ly Thuong Kiet Str., Dist. 10, Ho Chi Minh City, Vietnam

[2]Vietnam National University Ho Chi Minh City, Linh Trung Ward, Thu Duc Dist., Ho Chi Minh City, Vietnam

[3]VNU-HCM Key Laboratory for Material Technologies, Ho Chi Minh City University of Technology (HCMUT), 268 Ly Thuong Kiet Str., Dist. 10, Ho Chi Minh City, Vietnam

Corresponding author: nhhphuc@hcmut.edu.vn (NHH. Phuc)

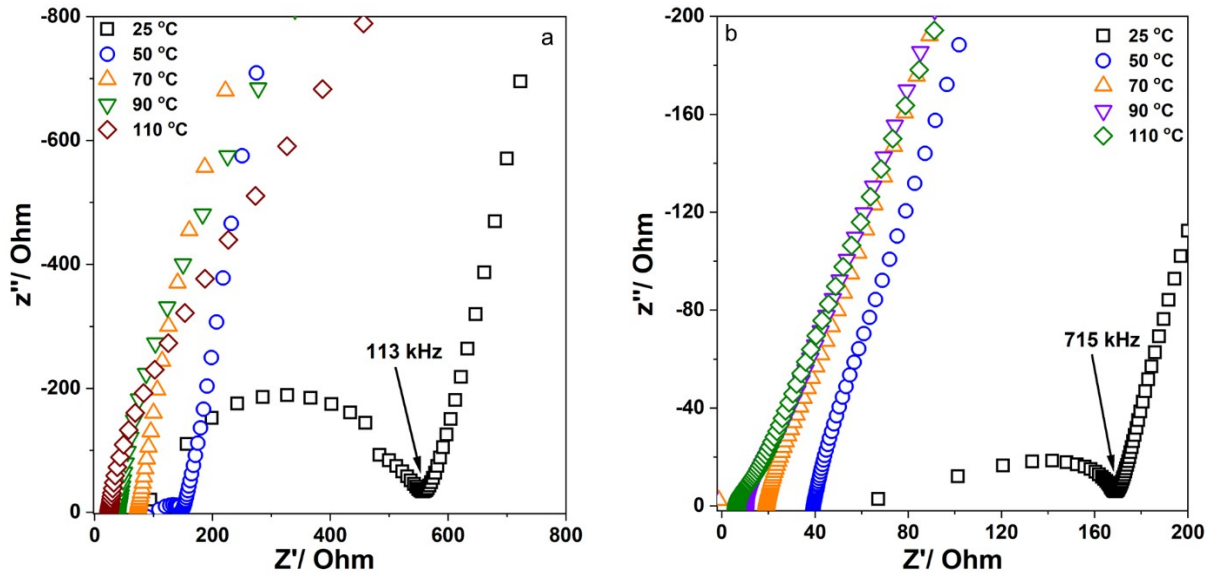

Figure S1: Electrochemical Impedance Spectra of the prepared (a) LPS and (b) $5CaI_2$ solid electrolyte.

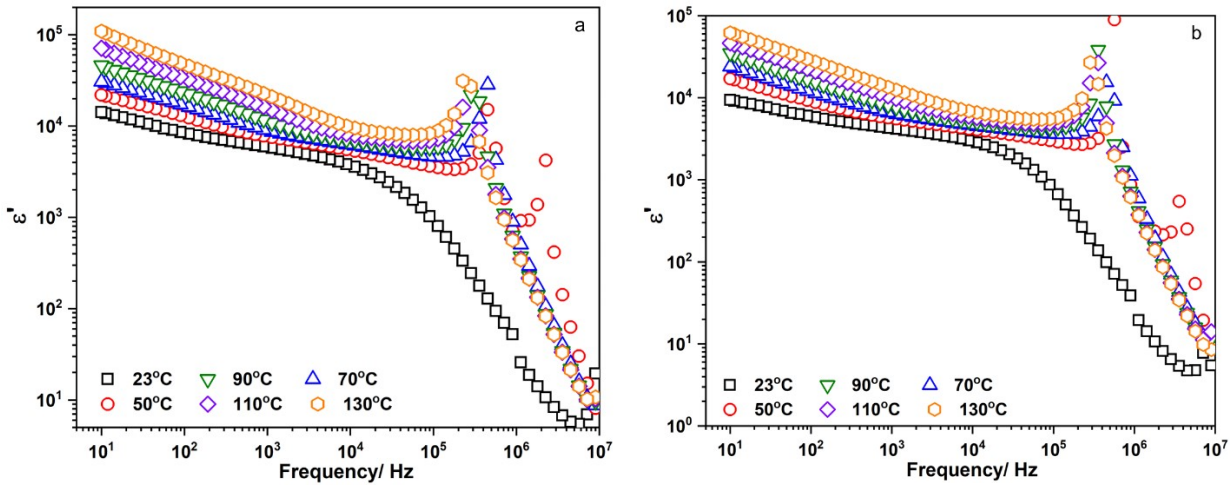

Figure S2: Frequency dependence of the real part of dielectric constant, ε', of (a) $5CaCl_2$ and (b) $5CaBr_2$

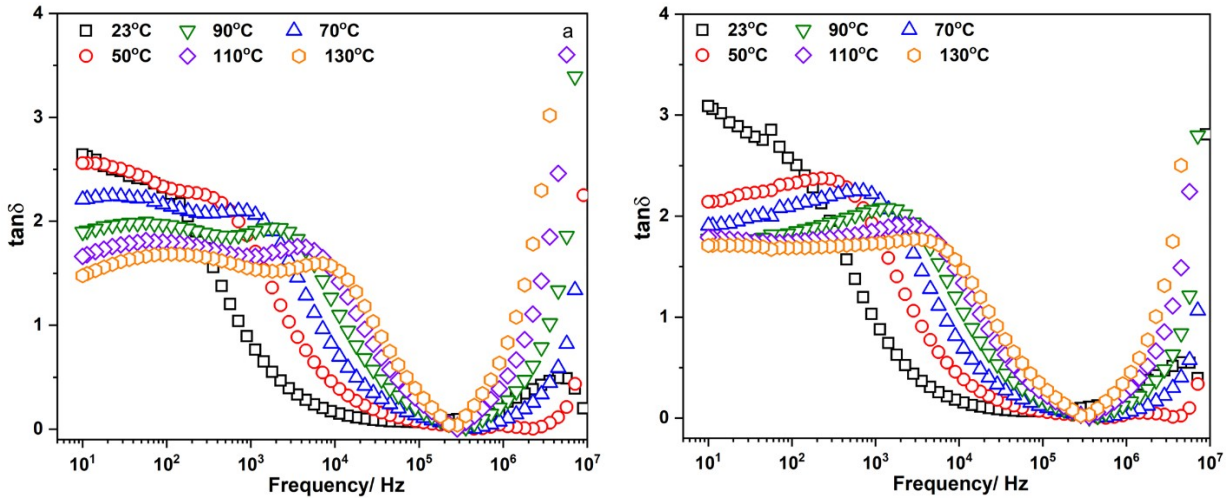

Figure S3: Frequency dependence ~~of the real part~~ of the loss factor, tanδ, of (a) $5CaCl_2$ and (b) $5CaBr_2$