

Supporting Information

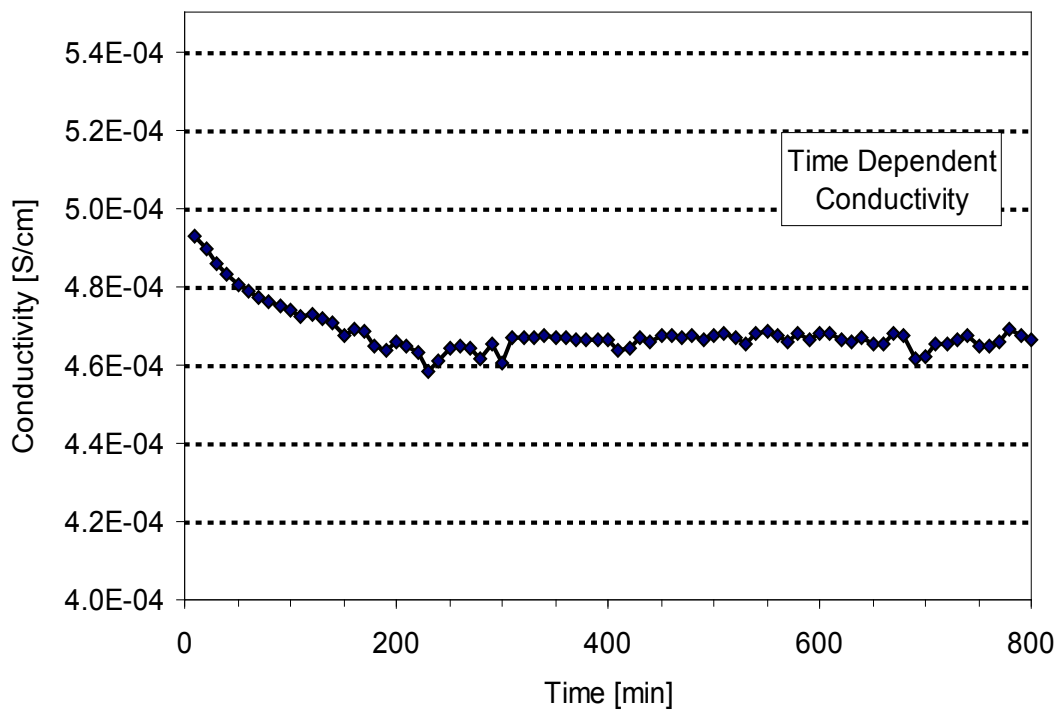


Figure S1 Time dependent ionic conductivity of Borate ester B2 + LiClO₄ + SiO₂-I (silica volume fraction $\phi = 0.01$).

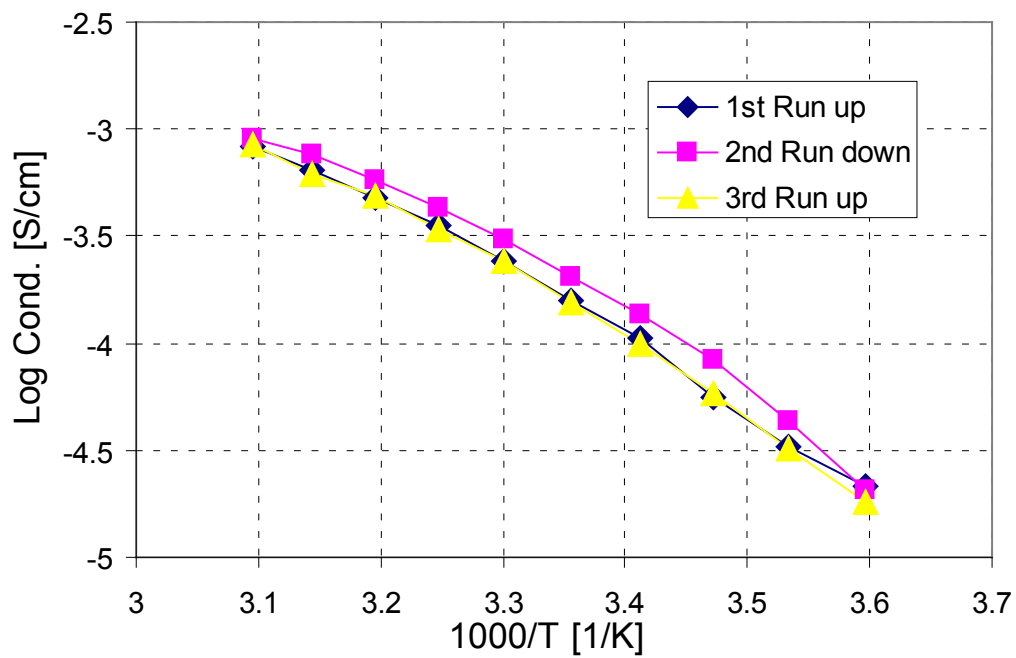


Figure S2 Time dependent ionic conductivity of Borate ester B2 + LiBOB + SiO₂-I I
(silica volume fraction $\phi = 0.05$).

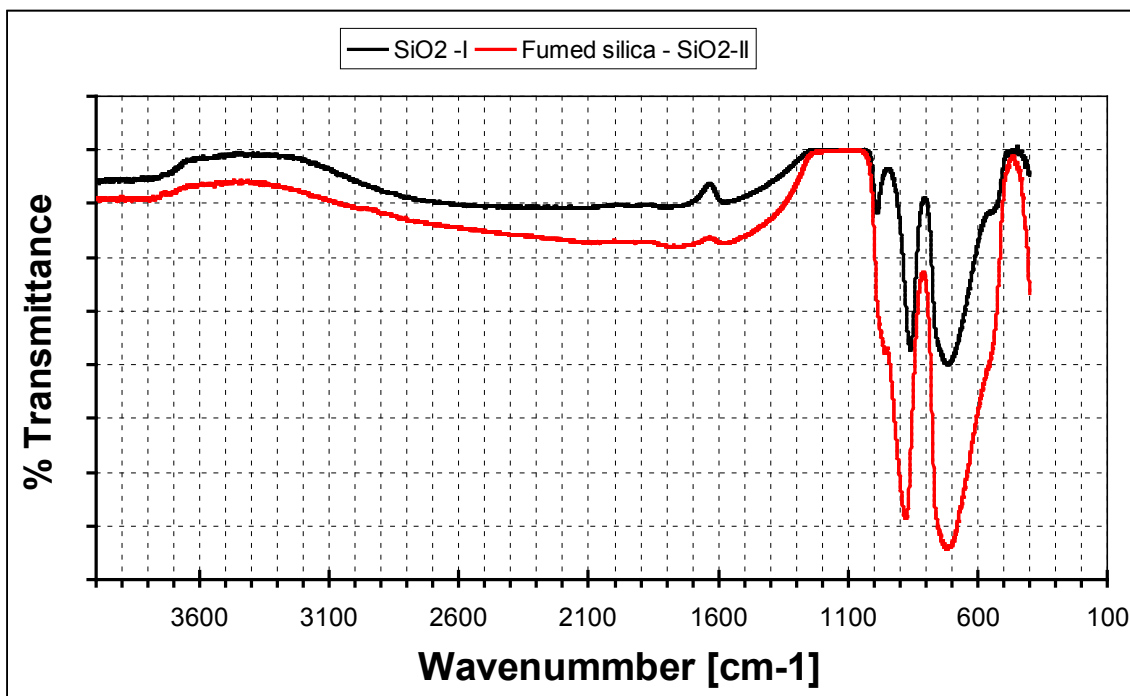
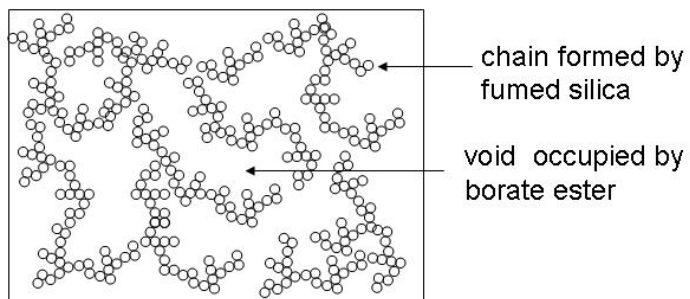
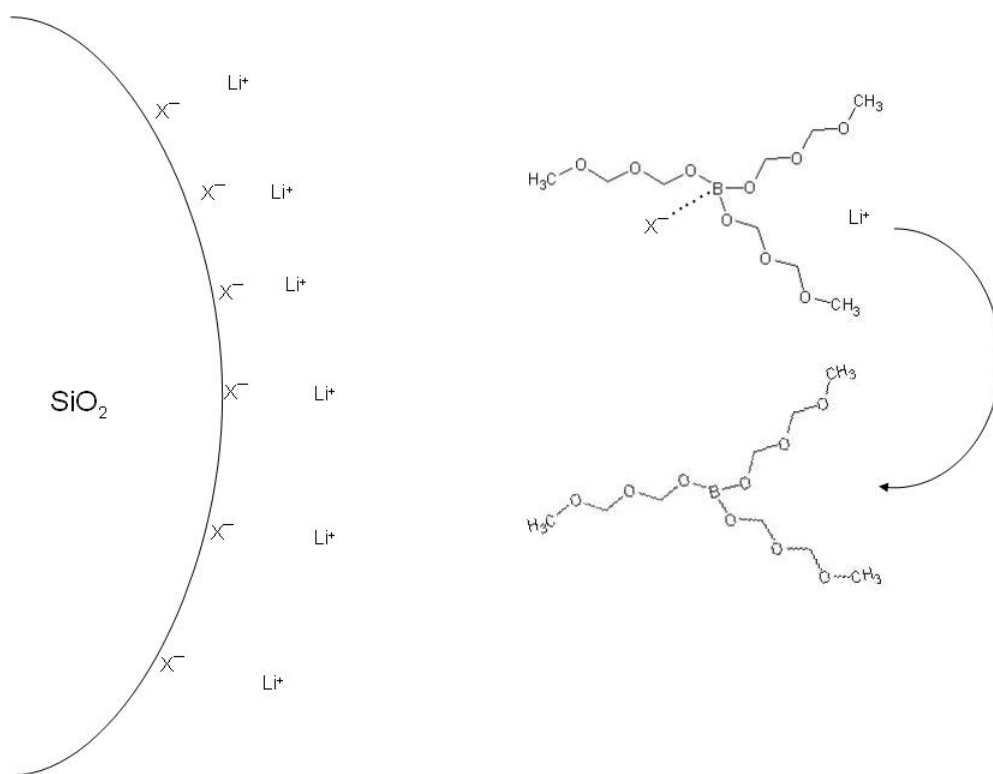


Figure S3 FT-IR spectra's of SiO₂-I and the fumed silica SiO₂-II



(a)



(b)

Figure S4 (a) Qualitative scheme of the structure of the composite borate ester electrolyte with fumed silica (b) a scheme of lithium ion transport in the composites.