SUPPLEMENTARY INFORMATION

Study of restricted diffusion of lithium salts in diglyme confined in mesoporous carbons as a model for cathodes in lithium-air batteries.

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Keywords: lithium-air batteries; cathode; mesoporous carbons; electrolyte diffusion; confinement

Comparison of fitting experimental data with one and two diffusion coefficients

Fig. S1 shows the fitting of the experimental data of salt release as a function of time for the M4 sample.

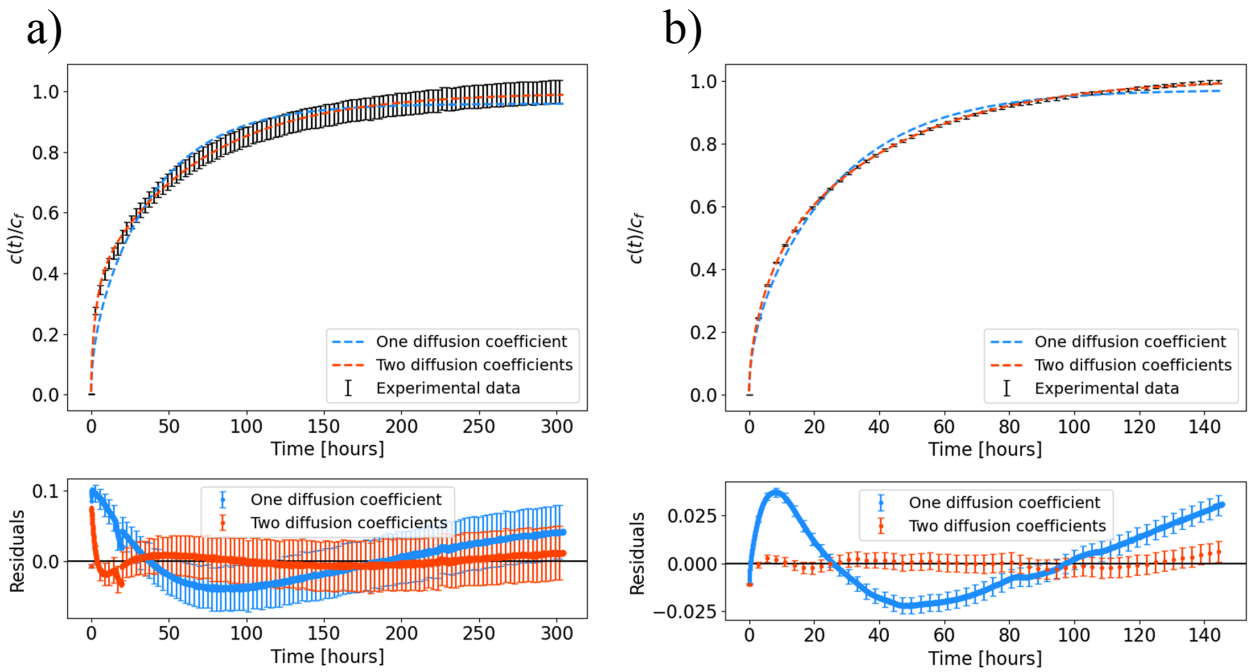

Figure S1: Fitting of the experimental data obtained from conductivity measurements of M4 samples, considering contributions from one (**blue**) and two (**red**) diffusion coefficients for (a) LiTf electrolyte and (b) LiTFSI electrolyte. Data are plotted in black considering the experimental error bars. The number of measurements were reduced in the graph for better visualization.

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Fig. S2 shows the fitting of the experimental data of salt release as a function of time for the M25 sample.

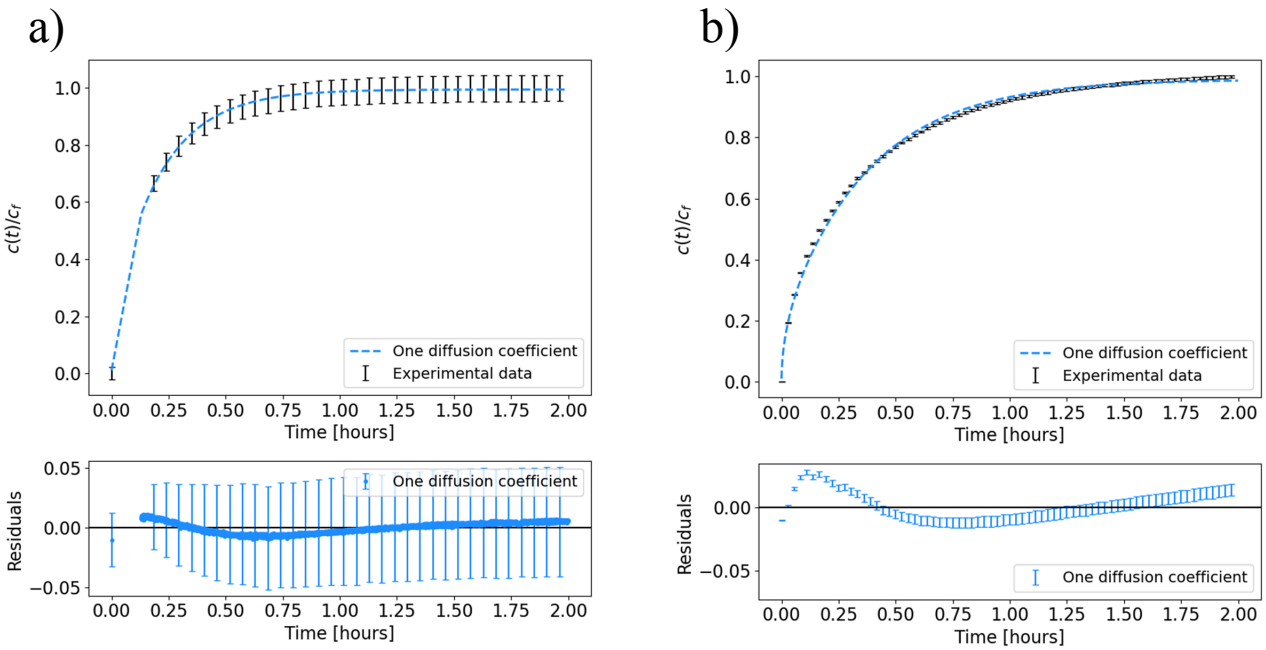

Figure S2: Fitting of the experimental data obtained from conductivity measurements of M25 samples, considering one diffusion coefficient. (a) LiTf electrolyte and (b) LiTFSI electrolyte. Data are plotted in black considering the experimental error bars. The number of measurements were reduced in the graph for better visualization.

Fig. S3 shows the fitting of the experimental data of salt release as a function of time for the M10 sample.

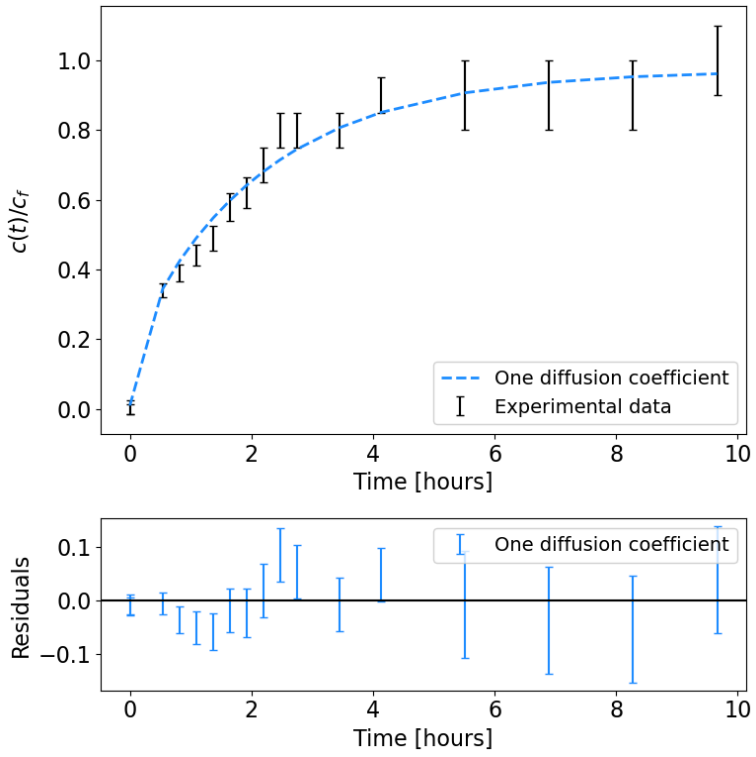

Figure S3: Fitting of the experimental data obtained from conductivity measurements of LiTf electrolyte confined in M10 sample, considering one diffusion coefficient.