

This work is part of the 'BatteryNL – Next Generation Batteries based on Understanding Materials Interfaces' project (with project number NWA.1389.20.089) of the NWA research programme 'Research on Routes by Consortia (ORC)' funded by the Dutch Research Council (NWO). The authors would like to thank Air Liquide for providing the lithium precursor.

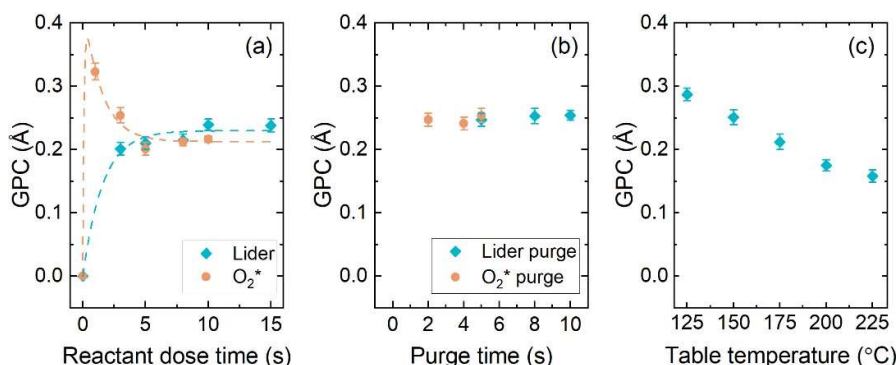


Figure 1 - Saturation curves of Lider + O₂* process at 150°C (a,b). The dashed lines serve as a guide to the eye. GPC of Lider + O₂* process as a function of the deposition temperature (c).

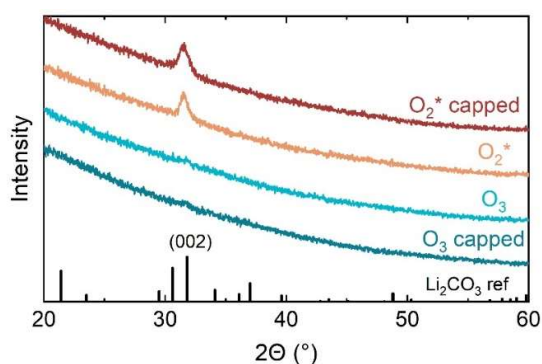


Figure 2 – Gonio XRD measurements on ALD Lider + O₂* and Lider + O₃ processed layers, with and without ~10 nm Al₂O₃ capping layer to protect the underlying films against air exposure.

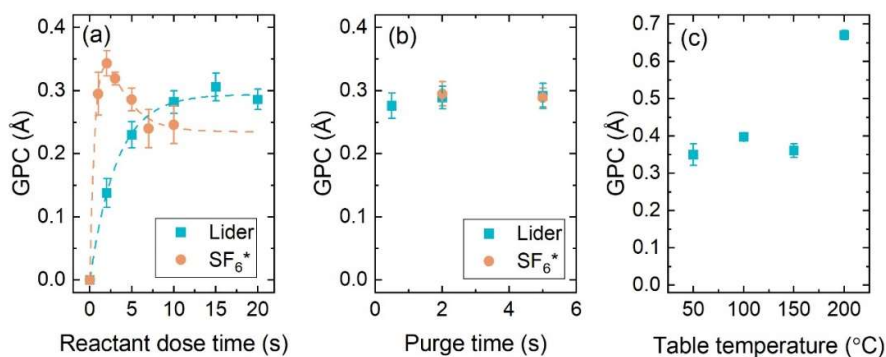


Figure 3 - Saturation curves for Lider + SF₆* process at 150°C grown on Al₂O₃-coated Si substrates (a,b). Dashed lines are guide to the eye. GPC of Lider + SF₆* process as a function of the deposition temperature (c).

Table 1 - Film densities of Lider + O₂* and Lider + O₃ films, with and without ~10 nm Al₂O₃ capping layer, measured by XRR.

	Density air exposed film (g/cm ³)	Density Al ₂ O ₃ -capped film (g/cm ³)
Lider + O ₂ *	1.97 ± 0.05	2.19 ± 0.12
Lider + O ₃	1.64 ± 0.07	2.03 ± 0.03