

Supplementary Information

Electrophoretic deposition of $\text{Li}_4\text{Ti}_5\text{O}_{12}$ nanoparticles with a novel additive for Li-ion
microbatteries

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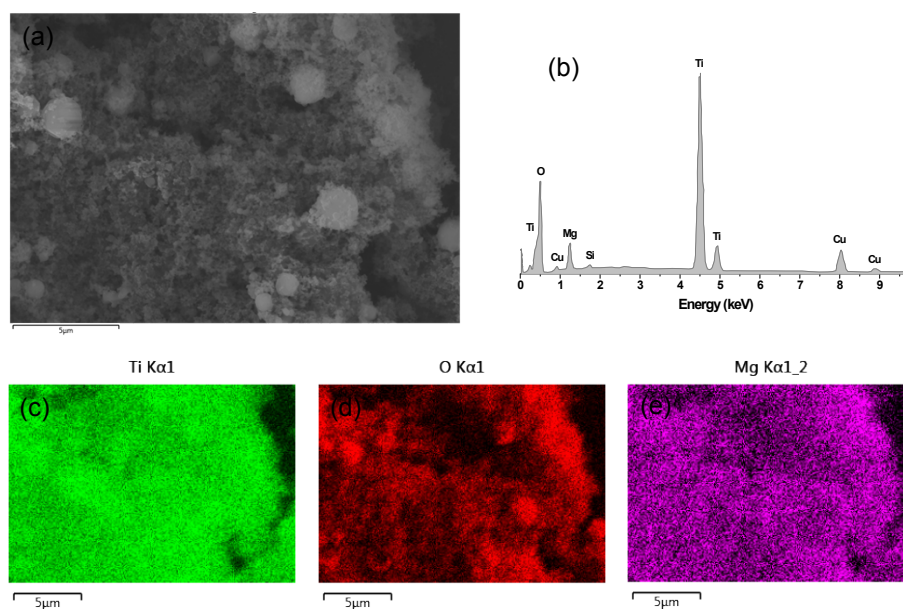


Fig. S1. SEM micrograph (a); EDS spectrum (b); and mapping micrographs for Ti (c) O (d) and Mg (e) obtained for the electrophoretically prepared $\text{Li}_4\text{Ti}_5\text{O}_{12}$ thick film.

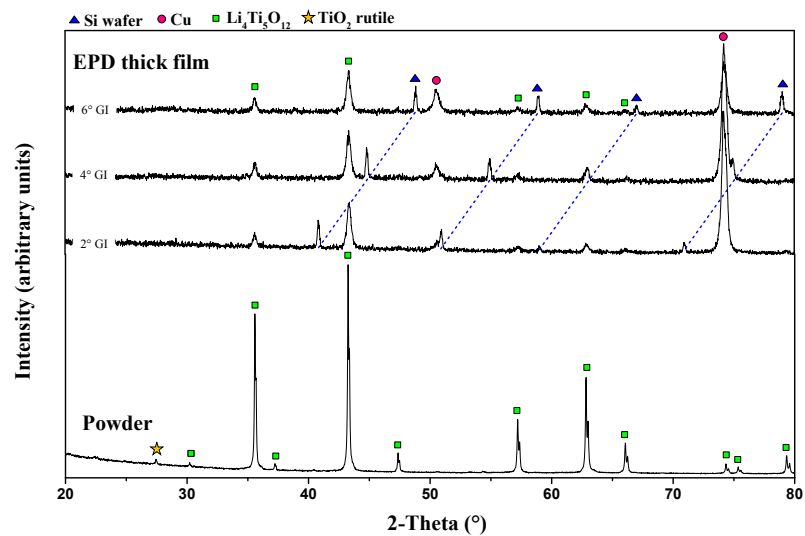


Fig. S2. X-ray diffractograms recorded for the as-received $\text{Li}_4\text{Ti}_5\text{O}_{12}$ powder, and the electrophoretically prepared $\text{Li}_4\text{Ti}_5\text{O}_{12}$ thick film at different grazing incidences (GI). The 4° peak shifts are attributed to the Si single crystal.