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Supplementary Information



Fig. S1 Scanning electron micrograph of the LiCoPO₄/Au/Al₂O₃ thin film.



Fig. S2 (a) HAADF and (b) ABF STEM images of the $LiCoPO_4$ (LCPO)/Au heterointerface revealing amorphous regions approximately 0.8 nm thick.



Fig. S3 Side views of calculated atomistic structures of (a) (010), (b) (210), (c) (301) and (d) (101) surfaces of $LiCoPO_4$.



Fig. S4. Simulated HAADF–STEM images $LiCoPO_4$ viewed along [001] for Li/Co cation exchange fractions of (a) 0%, (b) 10%, (c) 15%, (d) 17.5%, (e) 20% and (f) 25%.