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Supporting Information for

"Improved Electrochemical Performance of Li₃V₂(PO₄)₃ cathode in a Wide Potential Window for Lithium-ion storage by Surface N-doped Carbon Coating and bulk K-Doping"

by





Fig. S1 Cycling properties and initial charge-discharge profiles of various $Li_{3-X}K_XV_2(PO_4)_3/C$ (X= 0, 0.01, 0.02, 0.03, 0.04) samples under 0.5C (a, b) and 1C (c, d) in the potential range of 3.0-4.8V.



Fig. S2 XRD magnified patterns of $\rm Li_{3-X}K_XV_2(PO_4)_3$ /C+N (X=0.005, 0.01, 0.02) and $\rm Li_3V_2(PO_4)_3$ /C+N samples at 23.5° - 25.0° .



Fig. S3 SEM image of Li₃V₂(PO₄)₃/C+N and Li_{2.99}K_{0.01}V₂(PO₄)₃/C+N samples and corresponding EDS mapping of C, N, V, O, P and K.