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Supplementary Information

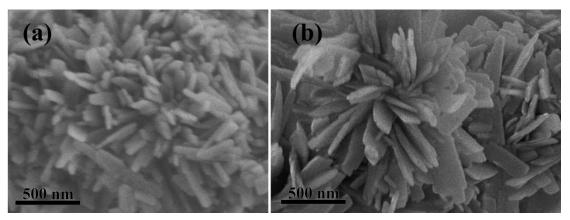


Figure S1 SEM images of (a) the hydrothermally synthesized LiMnPO₄ samples under the effect of 0.21 g KOH and 0.4 g K_2SO_4 , and (b) hydrothermally synthesized flower-like LiMnPO₄ nanostructures self-assembled by nanosheets under the effect of 0.21 g KOH without any K_2SO_4 . Due to the fast bounding of K^+ ion on (100) planes, the growth along the [100] direction is also strongly suppressed, and the primary LiMnPO₄ blocks change from (010) nanosheets to [001] rod-like nanoplates.

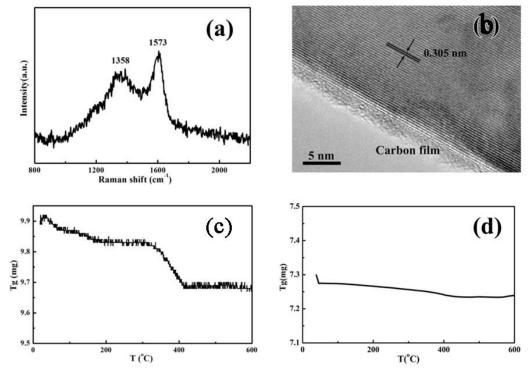


Figure S2 (a) Raman spectra, (b) HRTEM image, and (c) TG curve of the carbon-coated stamen-like LiMnPO4 nanostructures, and (d) TG curve of the stamen-like LiMnPO4 nanostructures before carbon coated