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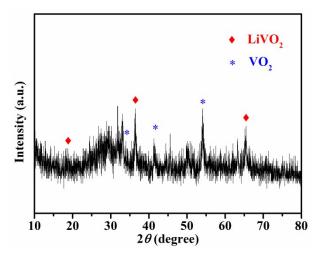


Figure S1. Wide angle XRD pattern of the material after calcination under N_2 , without adding citric acid in the reaction medium.

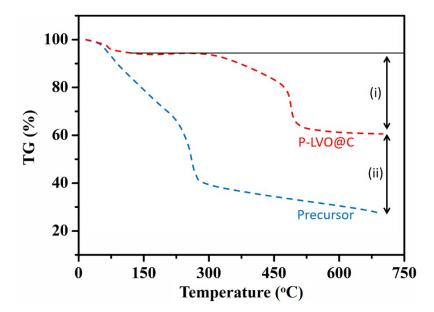


Figure S2 TG curves for precursor and P-LVO@C under oxygen flow.

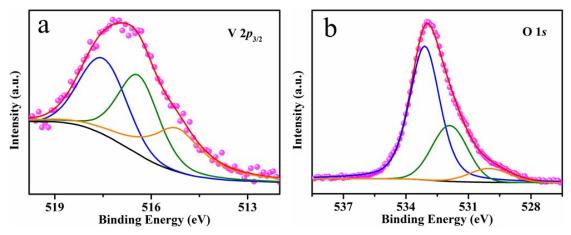


Figure S3. XPS spectra of P-LVO@C: (a) V $2p_{3/2}$ and (b) O 1s.

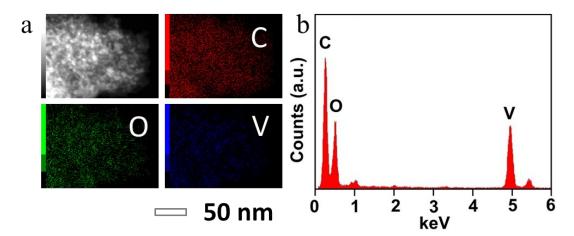


Figure S4. Elemental mapping (a) with EDX spectrum (b) of P-LVO@C.

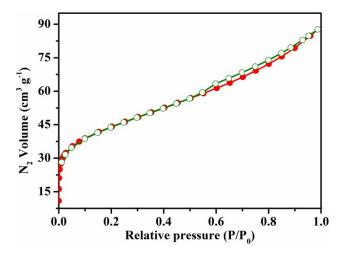


Figure S5. N₂ adsorption-desorption isotherms of P-LVO@C.