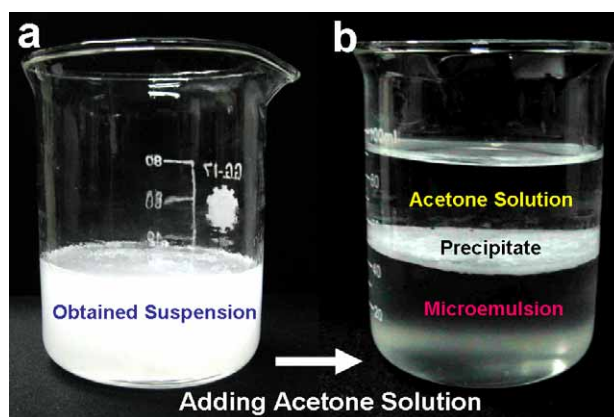


## Electronic supplementary information

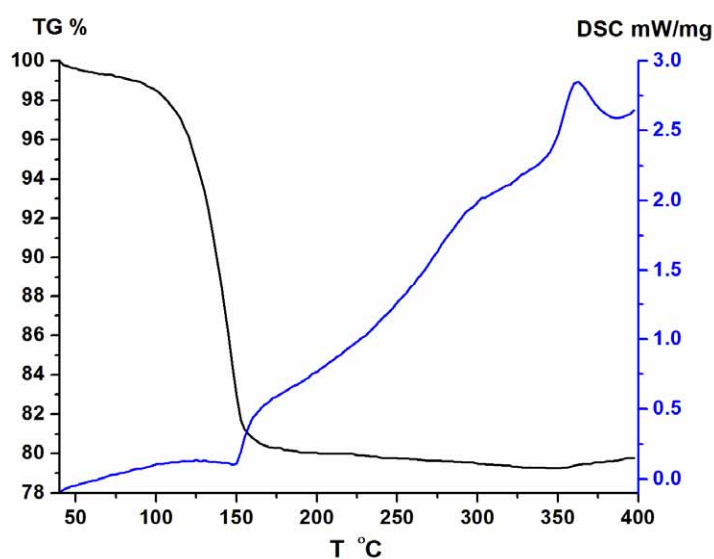
### Growth of Molybdate Nanorods through Intermediate Sustained Release Process

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**Figure S1.** The photo of the precipitation extracting process: (a) before and (b) after adding the acetone solution.



**Figure S2.** TGA-DSC curves of SZMO nanorods shows the nanorod-SDS binding is stable, and do not have structural or component variation even the samples were heated up to 100 °C

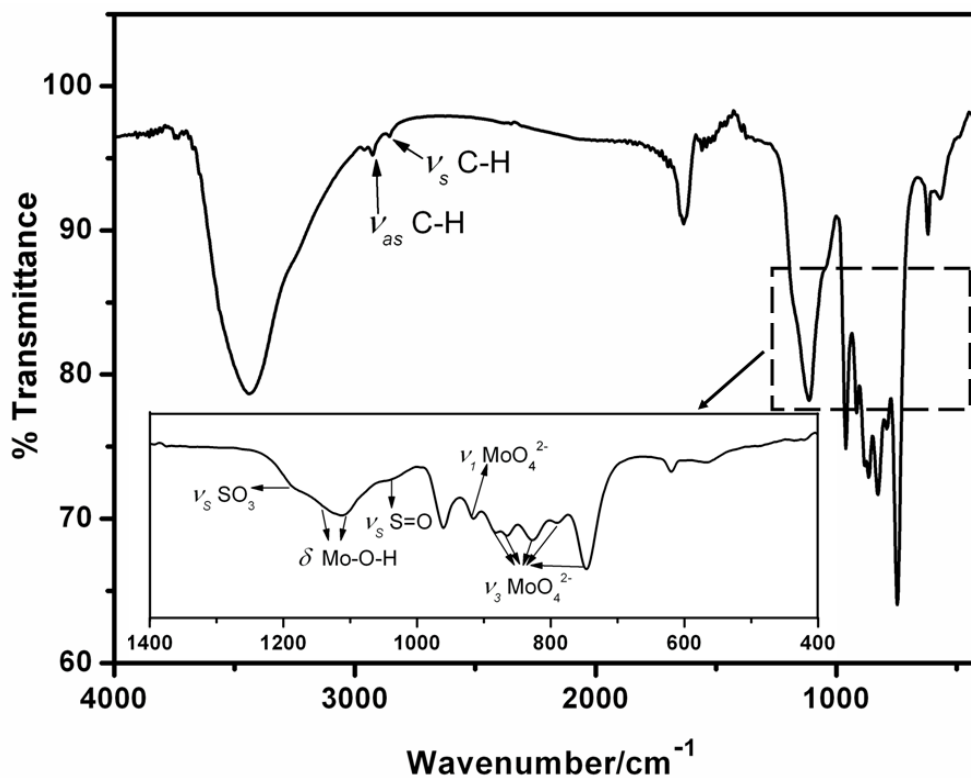


Figure S3. FTIR of SDS decorated SZMO nanorods (insert is the enlarged image from 400  $\text{cm}^{-1}$  to 1400  $\text{cm}^{-1}$  of FTIR).

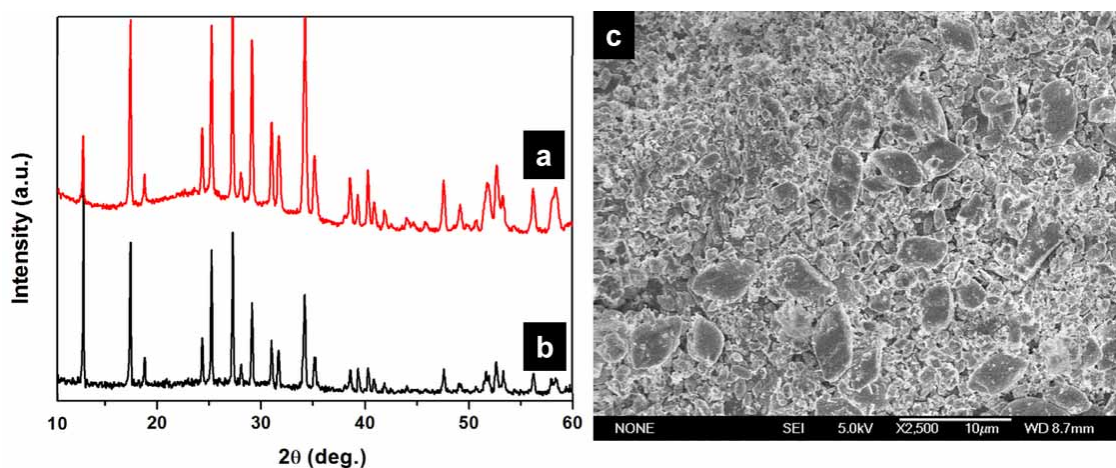


Figure S4. XRD patterns of (a) as-synthesized primary product prepared by non-acidified  $\text{ZnCl}_2$  solution as the reactant, and (b) after 5 hours aging at 120  $^\circ\text{C}$  in autoclave with its (c) low magnification SEM image.