Supplementary Material (ESI) for Journal of Materials Chemistry

Supporting information

Nanostructure Design of Amorphous $FePO_4$ Facilitated by a Virus for 3V Lithium Ion Battery Cathodes

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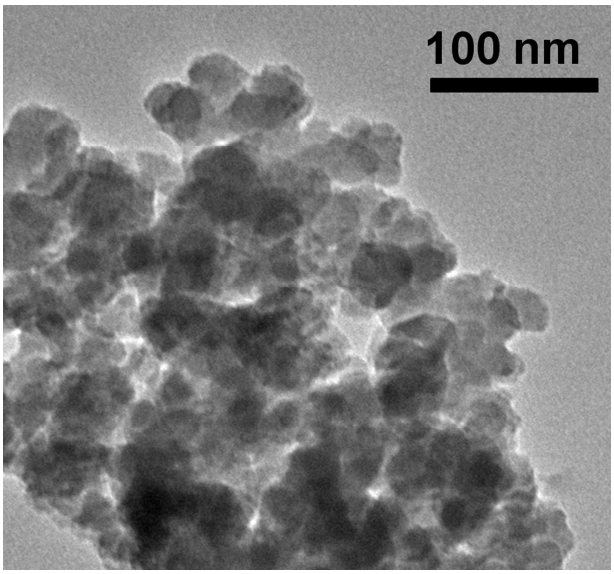

Figure S1. $FePO_4 \cdot H_2O$ powder synthesized by the same procedure in this study but without virus

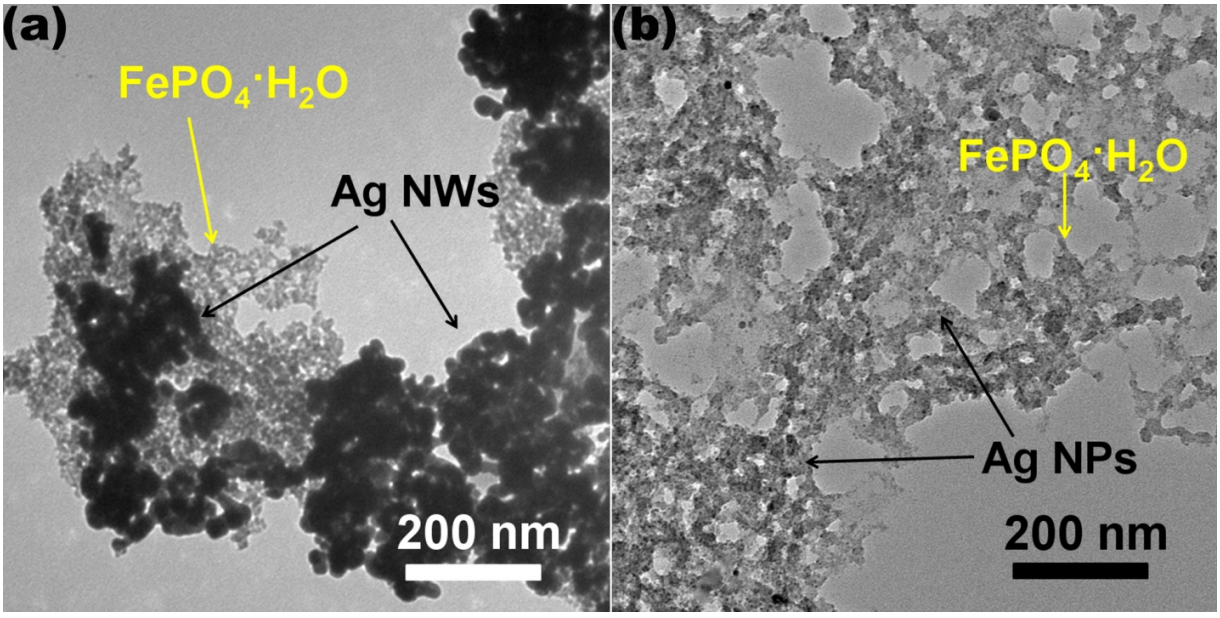

Figure S2. TEM images of nanowires in a (a) entanglement method, a-$FePO_4 \cdot H_2O$/Ag nanowires (b) heterostructure method (Ag)a-$FePO_4 \cdot H_2O$. Wavy black wires are Ag nanowires entangled on a-$FePO_4 \cdot H_2O$ network in (a). Ag NPs are embedded as black dots in a-$FePO_4 \cdot H_2O$ nanowires in (b).

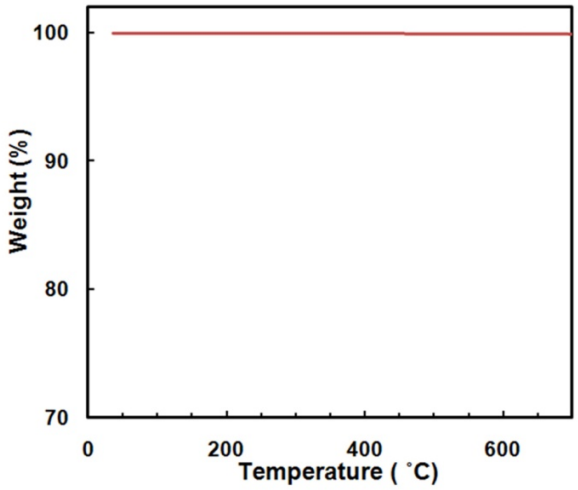

Figure S3. TGA curve of AgCl

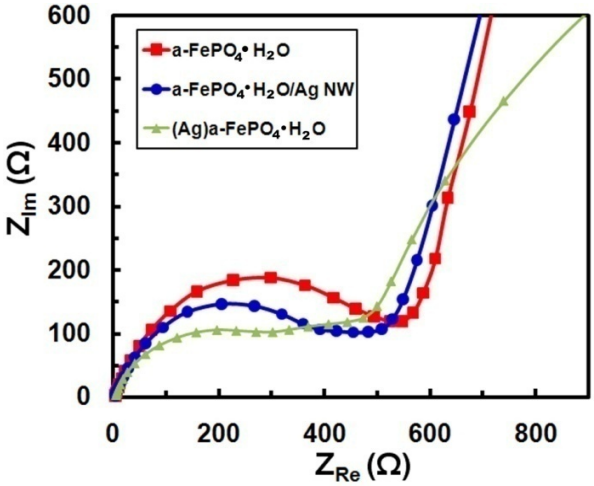

Figure S4. Nyquist plot: impedance response of a-$FePO_4$·H_2O, a-$FePO_4$·H_2O/ Ag NW and (Ag)a-$FePO_4$ viral nanowires.