

Facile Synthesis of CePO_4 Nanowires Attached to CeO_2 Octahedral Micron Crystals and Their Enhanced Photoluminescence Properties

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Supporting Information

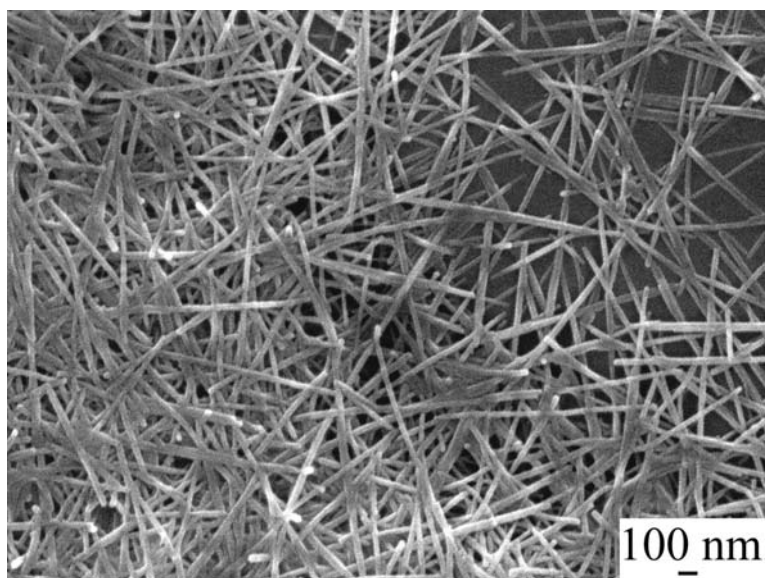


Figure S1. SEM images of pure CePO_4 nanowires synthesized with the molar ratio of Ce^{3+} and $\text{PO}_4^{3-} = 1$ at 180 °C for 24 h.

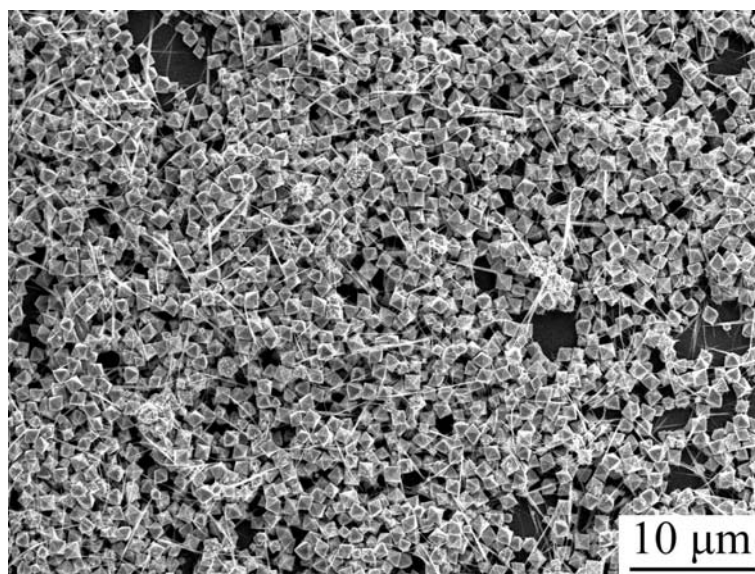


Figure S2. Low-magnification SEM images of CePO_4 nanowires attached to CeO_2 octahedral micron crystals synthesized with the molar ratio of Ce^{3+} and $\text{PO}_4^{3-} = 2$ at $180\text{ }^\circ\text{C}$ for 24 h.

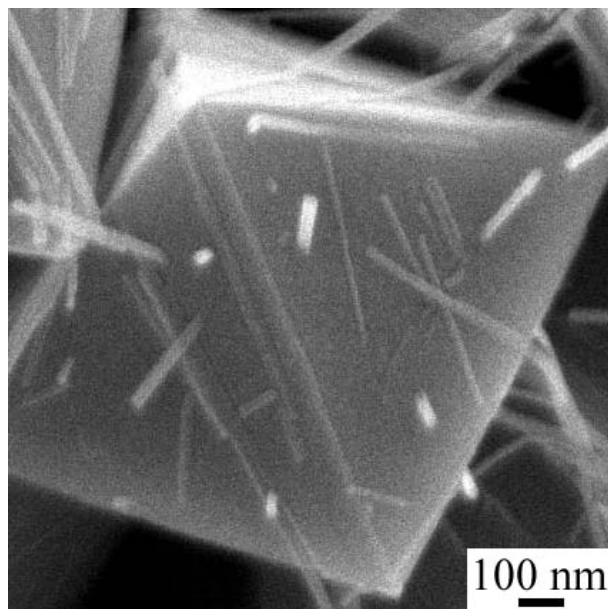


Figure S3. High-magnification SEM images of CePO_4 nanowires attached to CeO_2 octahedral micron crystals synthesized with the molar ratio of Ce^{3+} and $\text{PO}_4^{3-} = 2$ at $180\text{ }^\circ\text{C}$ for 24 h.

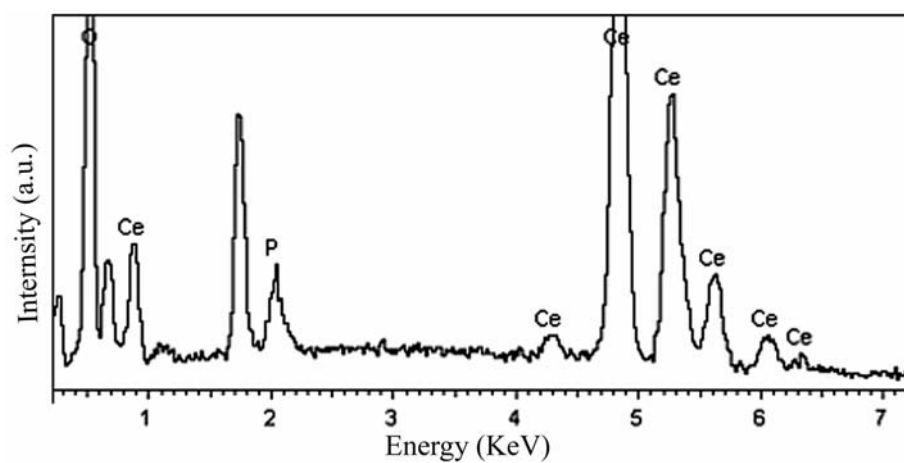


Figure S4. EDS spectrum of CePO_4 nanowires attached to CeO_2 octahedral micron crystals synthesized with the molar ratio of Ce^{3+} and $\text{PO}_4^{3-} = 2$ at 180°C for 24 h.

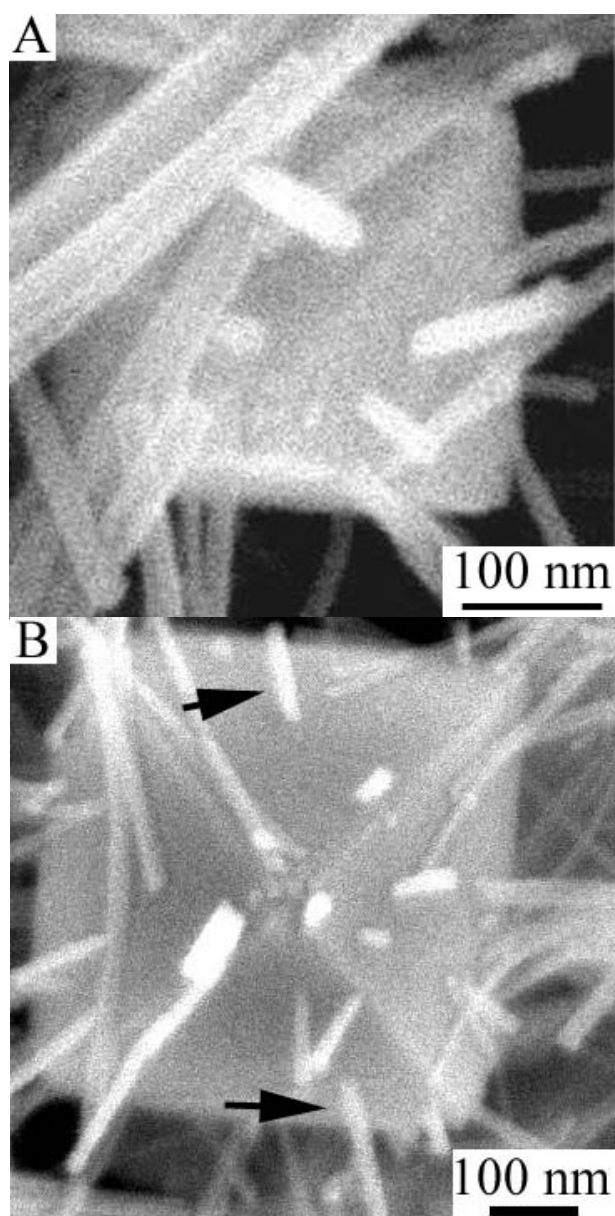


Figure S5. High-magnification SEM images of CePO₄ nanowires attached to CeO₂ octahedral micron crystals synthesized with the molar ratio of Ce³⁺ and PO₄³⁻ = 2 at 180 °C for different reaction times. (A) 5 h; (B) 12 h.