

Morphology Memory but Reconstructing Crystal Structure: Porous Hexagonal GeO₂ Nanorods for Rechargeable Lithium-ion Batteries

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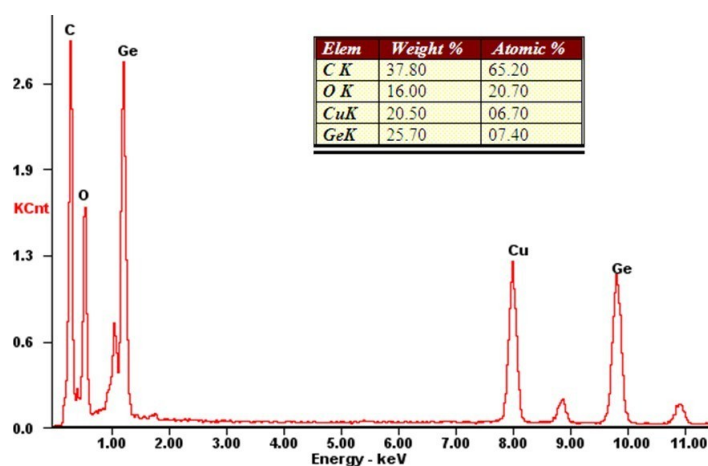


Figure S1. EDS elemental analysis of GeO₂ nanorods, C and Cu elements are arose from the carbon film of the TEM micro grid. No Ca element is detected, confirming that Ca is completely removed during the HNO₃ etching process.

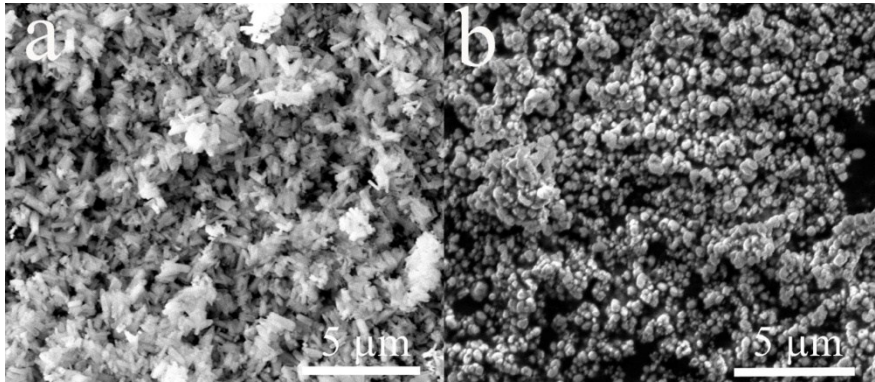


Figure S2. SEM image of GeO_2 products obtained after immersed $\text{Ca}_2\text{Ge}_7\text{O}_{16}$ nanorods in (a) 10 M HNO_3 and (b) 7.5 M HNO_3 for 1h.

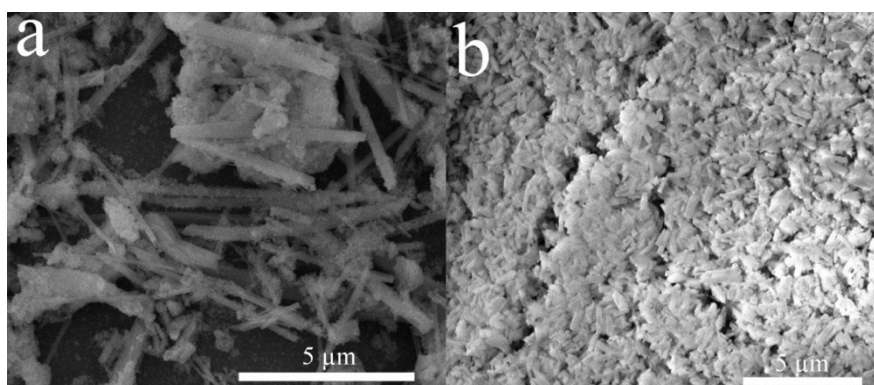


Figure S3. SEM image of (a) GeO_2 and (b) $\text{Ca}_2\text{Ge}_7\text{O}_{16}$ electrodes after 50 cycles.