

Sulfide Solid Electrolyte with Favorable Mechanical Property for All-Solid-State Lithium Battery

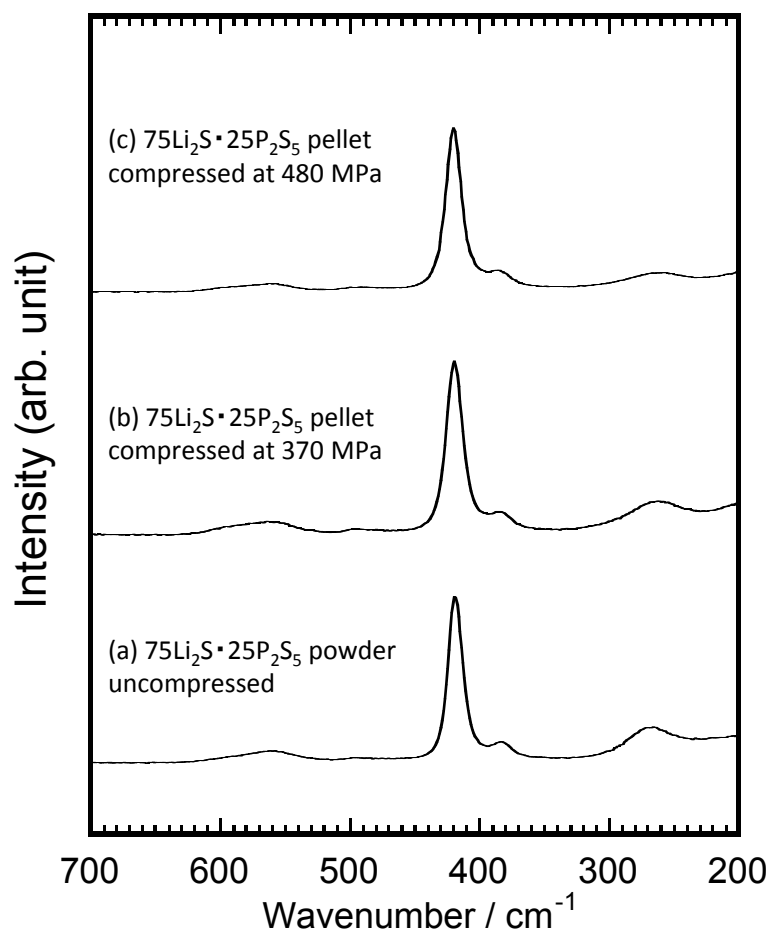
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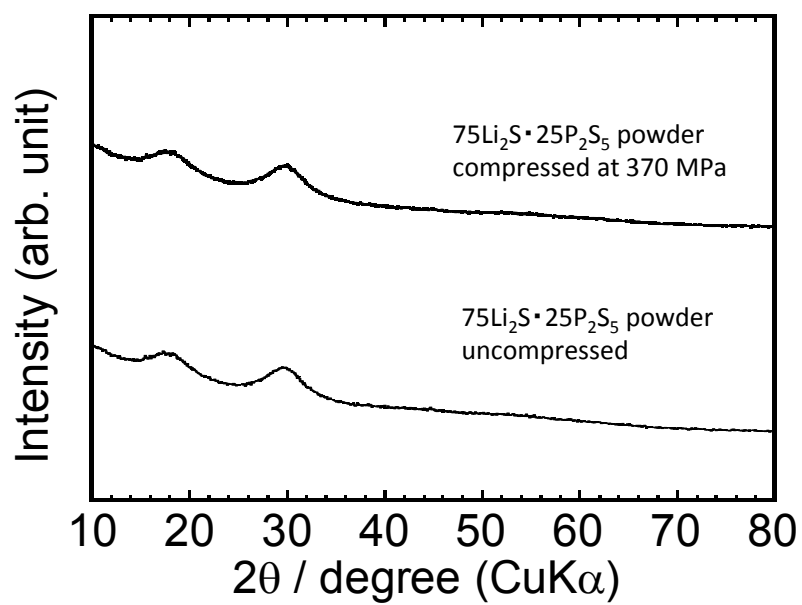
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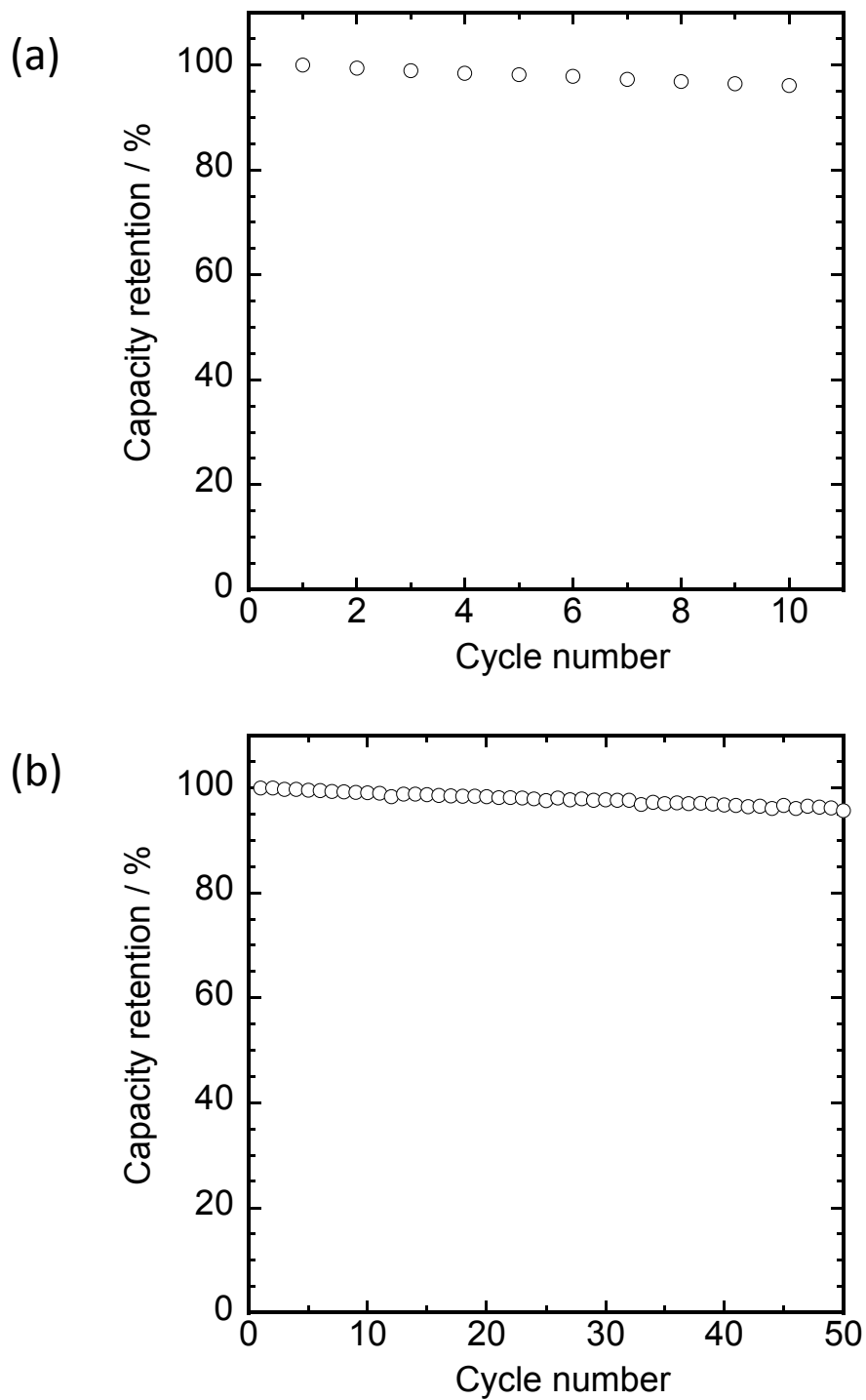
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Supplementary Figure S3. Raman spectra of (a) uncompressed $75\text{Li}_2\text{S} \cdot 25\text{P}_2\text{S}_5$ glass powder and $75\text{Li}_2\text{S} \cdot 25\text{P}_2\text{S}_5$ glassy pellets compressed at (b) 370 MPa and (c) 480 MPa.



Supplementary Figure S2. XRD patterns of $75\text{Li}_2\text{S}\cdot 25\text{P}_2\text{S}_5$ glass powders (a) before and (b) after compression at 370 MPa.



Supplementary Figure S3. Capacity retention of all-solid-state half cells using (a) SE-coated LiCoO_2 and (b) SE-coated graphite. Indium foil (a) and lithium-indium alloy (b) were used as counter electrodes, and the $80\text{Li}_2\text{S}\cdot 20\text{P}_2\text{S}_5$ glass was used as a solid electrolyte.