

# Application of PVA-chitosan blend polymer electrolyte membrane in electrical double layer capacitor

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Abstract:

The highest conducting sample 11 wt-% poly(vinyl alcohol)+7 wt-% chitosan+12 wt-% ammonium nitrate (NH<sub>4</sub>NO<sub>3</sub>)+70 wt-% ethylene carbonate in the poly(vinyl alcohol)+chitosan+NH<sub>4</sub>NO<sub>3</sub>+ethylene carbonate solid polymer electrolyte system has been used in the fabrication of an electrical double layer capacitor (EDLC). The solid polymer electrolyte has been prepared by the



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