

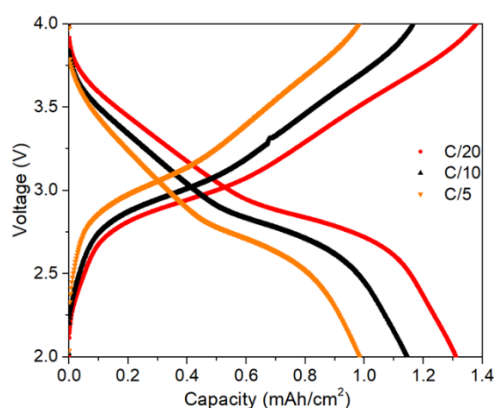
SOLID-STATE SODIUM BATTERY

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Researchers at CIC energigUNE and Ormazabal Corporate Technology have developed a sodium solid state battery with high cathode active material loading that operates in a voltage range between 2 and 4 V.

Sodium-based batteries are expected to reduce the cost of analogous lithium-based systems. Moreover, solid state batteries provide potential solutions to the primary problems encountered in traditional batteries, which employ flammable liquid electrolytes, such as poor safety or energy density. Being the energy density of the cells directly influenced by the active material loading of the electrodes, the specific combination of the polymer electrolyte and the cathode composition of the cell of this invention, enables the stable charge / discharge of the cell with cathode active material loadings up to 1 mAh/cm².



ADDED VALUE

- ✓ Improved electrochemical performance at high cathode active material loadings
- ✓ Cell free of volatile/flammable components

APPLICATION OF THE TECHNOLOGY

- ✓ Stationary energy storage

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