

# Calcium battery and its electrolyte and composition

New Ca electrolyte composition which satisfies all essential properties required for rechargeable battery

## Overview

The Ca-rechargeable battery is expected to replace the Lirechargeable battery in the future, but there is no electrolyte having the essential characteristics for a rechargeable battery.

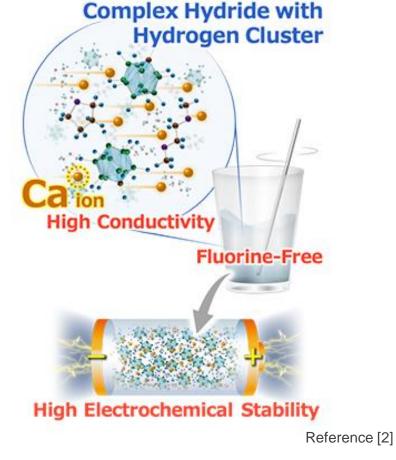
This invention solves above problems and realizes an electrolyte solution for Ca-rechargeable battery with high Ca-ion conductivity, large potential window, and high stability of metal dissolution & precipitation against Ca with limited property degradation, using a novel composition halogen-free Ca salt.

# We can provide the electrolyte samples.

The information can be disclosed after concluding a fee-based contract that includes a confidentiality clause since the application has not yet been published.

#### **IP** Data

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## **Related Works**

[1] Kisu, K., Kim, S., et al. Sci Rep 11, 7563 (2021). https://doi.org/10.1038/s41598-021-86938-0

[2] Tohoku University Research News April-6th 2021. https://www.tohoku.ac.jp/en/press/new\_material\_calcium\_batteries.html

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