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Solid State Physics and Engineering

Calcium-Ion Batteries

David J. Fisher

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The book reviews resent research on identifying suitable electrode and electrolyte materials for calcium-ion batteries.

Keyword: Multivalent Batteries, High Energy-Density, Rechargeable Electrodes, Ion Diffusion, Intercalation Electrode Materials, Reversible Calcium-Exchange, Power Output, Safety, Toxicity, Cost-Effectiveness

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Summary:

Due to the limited availability of lithium in the world, there is much research on the possibility of using calcium instead of lithium. Calcium is 2500 times more plentiful than lithium. The book reviews resent research on identifying suitable electrode and electrolyte materials based on calcium ions. It references 167 original resources with their direct web links for in-depth reading.

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