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Constructing low-cost and long-cycle-life electrochemical energy storage devices is currently the key for

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large-scale application of clean and safe energy [1], [2], [3]. The scarcity of lithium ore and the continued pursuit of efficient energy has driven new-generation clean energy with other carriers [4], [5], [6], such as Na +, K +, Zn 2+, Mg 2+, Ca 2+, and Al 3+.

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