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Large energy is required for traditional CO₂ fixation, leading to more CO₂ emission and additional pollutants. Recently, integrating renewable energy with CO₂ fixation has attracted increasing attention as a sustainable strategy. Here, based on a systematic investigation on aprotic Li-CO₂ electrochemistry, we first provide an alternative strategy for either CO₂ ...

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Electrochemical energy storage (EES) plays an important role in personal electronics, electrified vehicles, and smart grid. Lithium-ion batteries (LIBs) and supercapacitors (SCs) are two of the most important EES devices that have been widely used in our daily life. The energy density of LIBs is heavily dependent on the electrode capacity, in ...

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