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A rechargeable Li-SO₂ battery ...

... developed from a primary $\text{Li}\text{-SO}_2$ cell is reported by K. Kang et al. in their Communication on page 9663 ff. Lithium ions (yellow) and sulfur dioxide (blue) reversibly react with each other in the rechargeable system, leading to a high energy density and a superior energy efficiency of the rechargeable $\text{Li}\text{-SO}_2$ battery. The energy efficiency of the rechargeable system is further enhanced by using catalysts.

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