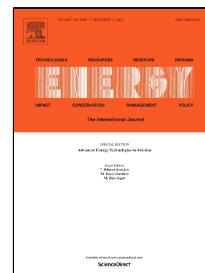


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A double-scale and adaptive particle filter-based online parameter and state of charge estimation method for lithium-ion batteries

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Highlights

- ▶ A novel double adaptive particle filter was proposed to adapt to environmental variety.
- ▶ Battery parameters and SoC can be renewed adaptively with two time scales.
- ▶ Battery SoC is renewed every one second, and the parameters every one minute.
- ▶ The effectiveness and applicability of the methods are verified by aged batteries.

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