Development of Lithium-Air battery

Keywords: Lithium-Air battery

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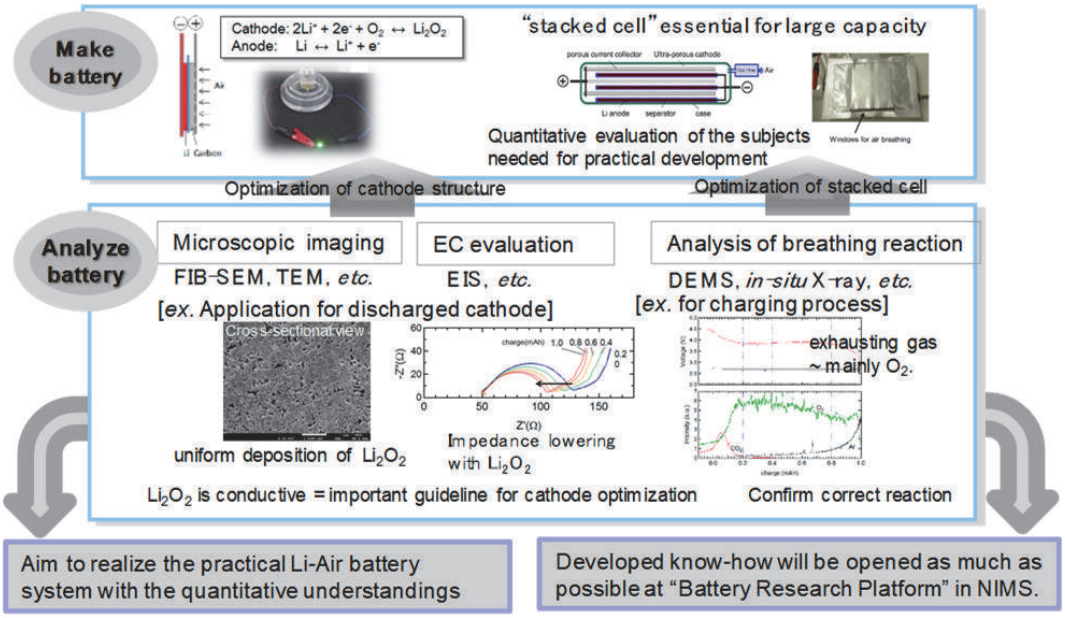
Background

Innovative battery technology which exceeds the performance limit of the conventional Li-ion battery is needed for the truly efficient use of natural energy (solar power, etc.) We started the development of Li-Air battery because lower cost is expected rather than a lot of other candidate technologiesSegoe UI 7.5 point

Aim

The composing elements are limited mainly to Li, C, and O, that is the essential reason for expected lower cost, on the other hand, makes hard to find effective method for drastic improvement in battery performance. We are trying to get the quantitative guideline for development from the ordinary cycle of "Making" & " Analyzing "

Advanced Research Topics



Applied area and future prospects

- Large scale battery for surplus power (for "smart-grid" technology)
- Application to EV enables it to run over 800km/charging.

Issues for technology transfer

- light air-breathing cathode with high power & capacity
- Metal-rich anode with high cycle endurance
- Small passive air-filtering system which effectively remove moisture from the ambient air