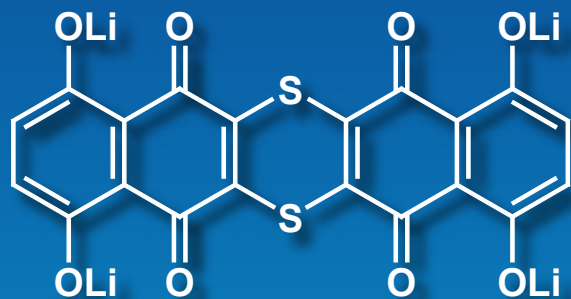


New

MATERIALS



High Capacity Organic Positive-electrode Material DNP-Li

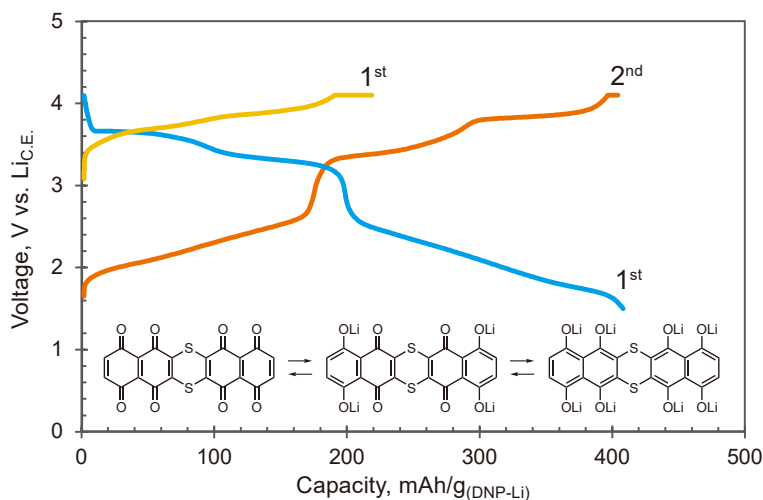


DNP-Li
100mg / 500mg
[D5947]

Advantages

- Naphthazarin-based positive electrode material
- Multielectron-transfer type redox reaction
- High capacity (416 mAh/g) and energy density (1.1 Wh/g)
- Long cycle-life (300 mAh/g after 100 cycles)

Typical charge/discharge curves during initial cycles (cited from Reference)



Appearance



Application (preparation of electrodes and cells)

As a positive-electrode, composite sheet composed of DNP-Li (a few milligrams per electrode), acetylene black, and PTFE is prepared by mixing them. The sheet is then pressed onto a mesh-type aluminum current collector. The battery performance is examined by assembling IEC R2032 coin-type cells with a positive-electrode, a lithium metal negative-electrode, separator, and electrolyte solution.

Reference M. Yao, N. Taguchi, H. Ando, N. Takeichi, T. Kiyobayashi, *Commun. Mater.* **2020**, *1*, 70. <https://doi.org/10.1038/s43246-020-00071-5>

This product was are commercialized under an invention license by the National Institute of Advanced Industrial Science and Technology (AIST), Japan.

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TCI battery

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