

Li-S電池用 CNT分散液

CNT dispersion for Li-S batteries

特徴 | Characteristics

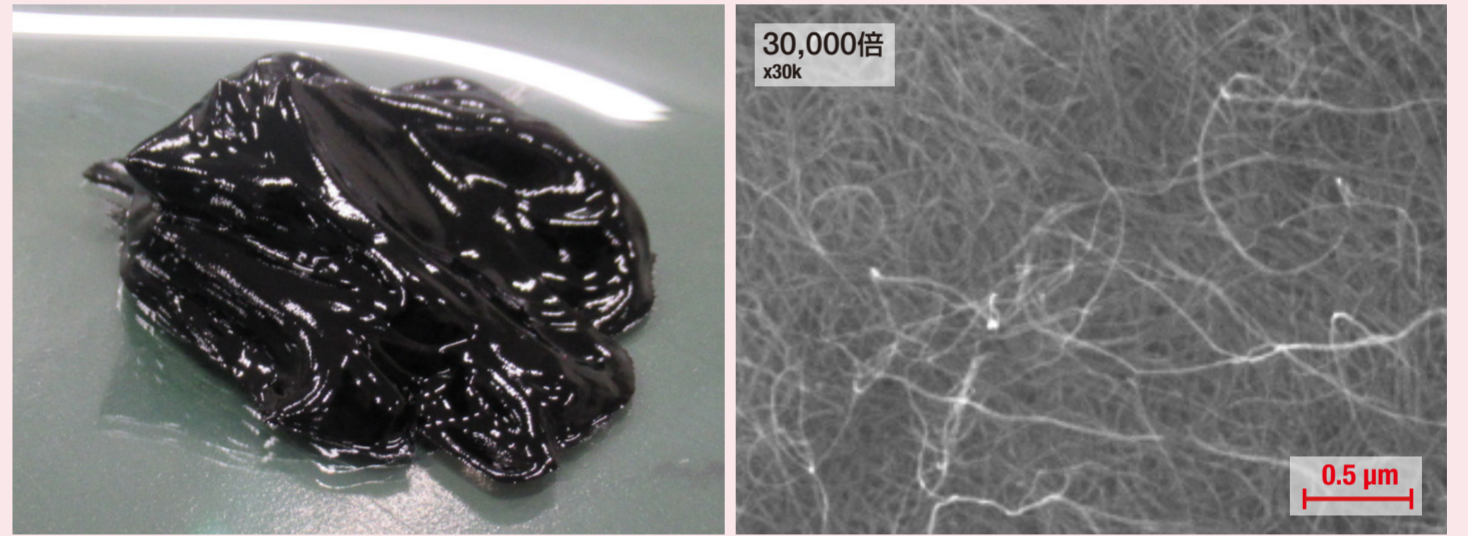
- **長尺CNTをLi-S電池用に均一に分散**
Aqueous dispersion of long CNTs for Li-S batteries
- **長距離電子伝導パス形成と、活物質体積変化に追従**
Contributes to formation of long-distance electron conduction path and accommodate the repeated volume change of active materials
- **Li-S電池以外の活物質にも対応可能**
Various active material are available



代表物性 | Representative physical properties

項目 Items	仕様 Specifications
媒体 Media	純水 Pure water
CNT濃度 Concentration of CNT	0.4 wt. %
粘度(剪断速度 5/s) Viscosity (shear velocity 5/s)	1,200 mPa·s

分散液と分散液中のCNTイメージ
Dispersion and state of CNT in dispersion

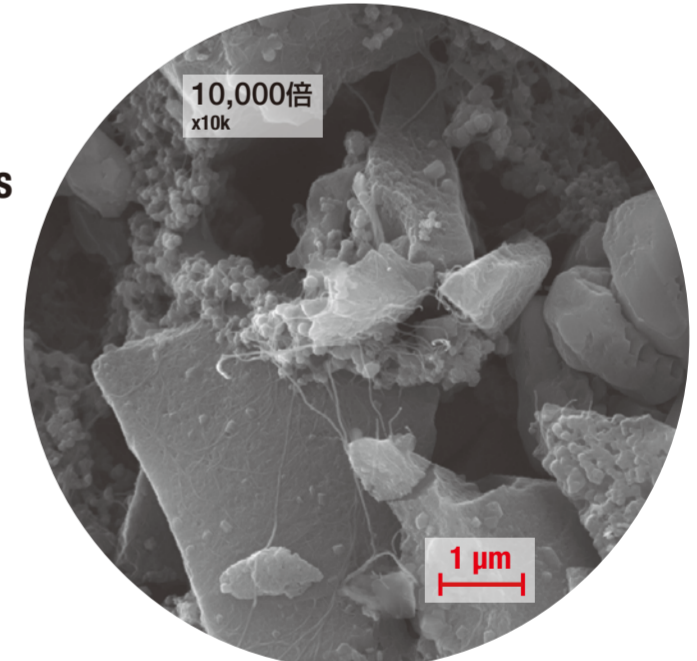


Li-S電池評価結果 | Li-S batteries test results

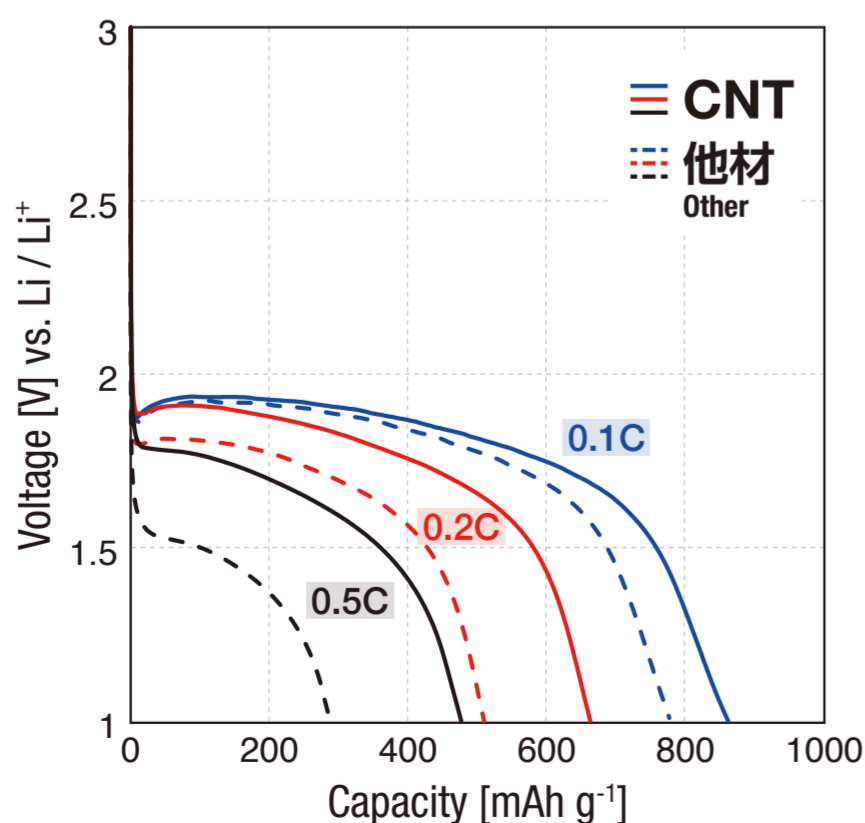
項目 Items	仕様 Specifications
活物質 Active material	硫黄担持活性炭 Sulfur in activated carbon
CNT添加量 Amount of CNT	0.7 wt. %
電解質 Electrolyte	LiTFSI
電流値 Current	1C = 1,672 mA g ⁻¹

※関西大学 電気化学研究室のご協力により評価データを取得
We acquired the evaluation data due to cooperation with Kansai University, electrochemistry laboratory

- **合材層中のCNT存在イメージ**
Image is for illustration purposes



- **レート特性の向上を確認**
Excellent rate properties



- **電極の体積変化に追従し、良好なサイクル特性**
Excellent cycle properties because accommodate the repeated volume change

