

リチウムイオン電池、マグネシウム、ナトリウムイオン電池 正極、負極、固体電解質材料

1. パウダー
2. 印刷用ペースト (粒子径、活物質濃度、粘度、樹脂、水系、有機溶剤系など、ご相談ください)
3. 表面ヘシリカ、アルミナなどの酸化物の表面コーティング処理、もしくは導電性カーボン、カーボンナチューブの表面コーティング処理など)
4. 金属ドープなどによる電気化学的特性調整 など.
5. 下表以外の酸化物電池材料の受託合成

Cathode for Lithium Ion Battery

Material	size in powder	size in liquid (particle sol in water or organic solvent)
LiCoO_2	1-10 μm (powder)	< 150 nm (liquid dispersion)
LiMn_2O_4	1-10 μm (powder)	< 150 nm (liquid dispersion)
$\text{LiNi}_{1/3}\text{Mn}_{1/3}\text{Co}_{1/3}\text{O}_2$	1-5 μm (powder)	< 150 nm (liquid dispersion)
LiMnPO_4 , LiFePO_4	1-10 μm (powder)	< 150 nm (liquid dispersion)
LiCoPO_4	1-10 μm (powder)	< 150 nm (liquid dispersion)
$\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$	1-10 μm (powder)	< 150 nm (liquid dispersion)
$\text{LiNi}_{0.13}\text{Mn}_{0.54}\text{Co}_{0.13}\text{O}_2$ Li Rich Cathode	1-10 μm (powder)	< 150 nm (liquid dispersion)
$\text{LiNi}_{0.6}\text{Co}_{0.2}\text{Mn}_{0.2}\text{O}_2$	1-10 μm (powder)	< 150 nm (liquid dispersion)
$\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$	1-10 μm (powder)	< 150 nm (liquid dispersion)
$\text{LiNi}_{0.5}\text{Co}_{0.2}\text{Mn}_{0.3}\text{O}_2$	1-10 μm (powder)	< 150 nm (liquid dispersion)
$\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$	1-10 μm (powder)	< 150 nm (liquid dispersion)
$\text{Li}_2\text{FeP}_2\text{O}_7$	1 - 10 μm (powder)	< 200 nm (liquid dispersion)

Anode for Lithium Ion Battery

Material	size in powder	size in liquid (particle sol in water or organic solvent)
$\text{Li}_4\text{Ti}_5\text{O}_{12}$	1-10 μm (powder)	< 150 nm (liquid dispersion)

Magnesium, Sodium Ion Battery Electrode

$\text{Mg}_x\text{Co}_y\text{O}$, $\text{Mg}_x\text{Ni}_y\text{O}$ etc...	1-10 μm (powder)	< 200 nm (liquid dispersion)
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Lithium Ion Battery Solid Electrolyte

Material	size in powder	size in liquid (particle sol in water or organic solvent)
$\text{Li}_{3x}\text{La}_{2/3-x}\text{TiO}_3$	1-10 μm (powder)	< 150 nm (liquid dispersion)

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