

リチウムイオン電池用 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 ₂ O ₄	1-10 μm (powder)	< 150 nm (liquid dispersion)
LiNi _{1/3} Mn _{1/3} Co _{1/3} 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)
LiNi _{0.5} Mn _{1.5} O ₄	1-10 μm (powder)	< 150 nm (liquid dispersion)
LiNi _{0.13} Mn _{0.54} Co _{0.13} O ₂ Li Rich Cathode	1-10 μm (powder)	< 150 nm (liquid dispersion)
LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂	1-10 μm (powder)	< 150 nm (liquid dispersion)
LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂	1-10 μm (powder)	< 150 nm (liquid dispersion)
LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂	1-10 μm (powder)	< 150 nm (liquid dispersion)
LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂	1-10 μm (powder)	< 150 nm (liquid dispersion)
Li ₂ FeP ₂ 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)
Li ₄ Ti ₅ O ₁₂	1-10 μm (powder)	< 150 nm (liquid dispersion)
Magnesium, Sodium Ion Battery Electrode		
Mg _x Co _y O, Mg _x Ni _y O etc...	1-10 μm (powder)	< 200 nm (liquid dispersion)
Lithium Ion Battery Solid Electrolyte		
Material	size in powder	size in liquid (particle sol in water or organic solvent)
Li _{3x} La _{2/3-x} TiO ₃	1-10 μm (powder)	< 150 nm (liquid dispersion)
Li ₇ La ₃ Zr ₂ O ₁₂		

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