

ABSTRACT**SOLID ELECTROLYTE FOR ELECTROCHEMICAL DEVICES**

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Method for manufacturing a solid electrolyte for lithium-ion battery or supercapacitor, deposited on an electrode, comprising the steps of: a. providing a conductive substrate, covered beforehand with a layer of material that can be used as an electrode ("electrode layer"); b. deposition on said electrode layer of an electrolyte layer, preferably by electrophoresis or by dip-coating, from a suspension of core-shell particles comprising, as a core, a particle of a material that can be used as an electrolyte or electric insulator, on which a shell comprising PEO is grafted; c. drying the electrolyte layer thus obtained, preferably in an airflow; d. optionally, densifying said electrolyte layer by mechanical compression and/or heat treatment.

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Figure 1