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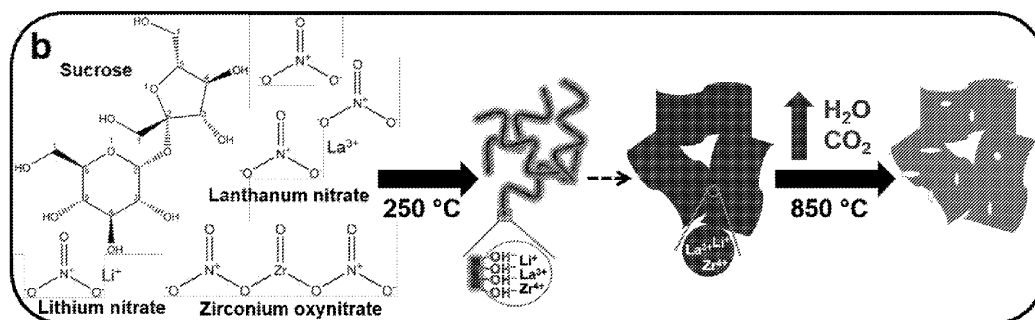
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(54) Title: SHEET-BASED FRAMEWORK FOR HIGH-PERFORMANCE HYBRID QUASI-SOLID BATTERY



(57) Abstract: The present invention relates to a material comprising a garnet-type oxide in the form of a powder comprising a plurality of sheet structures, a hybrid quasi-solid electrolyte framework comprising the material, a hybrid quasi-solid electrolyte comprising the hybrid quasi-solid electrolyte framework, and an electrochemical cell comprising the hybrid quasi-solid electrolyte. The present invention also relates to the respective methods for preparing the material, hybrid quasi-solid electrolyte framework, hybrid quasi-solid electrolyte and electrochemical cell. The present invention also relates to the respective methods for preparing the material, hybrid quasi-solid electrolyte framework, hybrid quasi-solid electrolyte and electrochemical cell as described above. In a particular embodiment, the garnet-type oxide is $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ (LLZO).

[Continued on next page]

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