Abstract

The invention relates to a solid inorganic material for use as an electrolyte material comprising an oxide of formula $A_x(MgM_1M_2Cu_yZn)1_{-x}O$, M_1 and M_2 being independently selected from among the metals of block d of the periodic table, with the exception of Co, and A being an alkali metal. The oxide is a high-entropy oxide.