

PEROVSKITE STRUCTURE, PROCESS FOR PRODUCTION AND USE THEREOF**ABSTRACT**

Aspects concern a perovskite structure comprising a composition comprising a first organic cation, a second cation, a metal cation and a counter anion, wherein the perovskite structure comprises layers stacked in a stacking direction and polarized charge domains arranged along a horizontal direction which is perpendicular to the layers stacking direction. Further aspects concern a process for the production of the perovskite structure as well as its use as a memory device structure.

FIG. 1A