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(54) Title: NA EXCESS P3-TYPE LAYERED OXIDES $\text{Na}_x\text{M}_y\text{O}_z$ WITH $x \geq 0.66$; $0.8 \leq y \leq 1.0$ AND $z \leq 2$ AS CATHODE MATERIALS FOR SODIUM ION BATTERIES

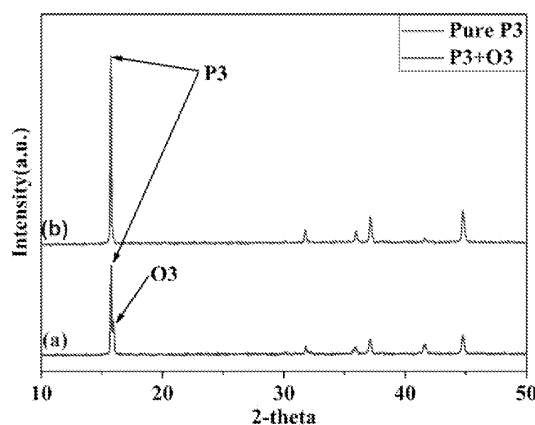


FIG. 1

(57) Abstract: Disclosed herein is a stabilised Na-ion oxide P3 phase of formula (I): $\text{P3-Na}_x\text{M}_y\text{O}_z$ Where, $x > 0.66$, $0.8 \leq y \leq 1.0$, $z \leq 2$; and M is selected from one or more of the group consisting of a 3d transition metal, a 4d transition metal, Al, Mg, B, Si, Sn, Sr and Ca. The stabilised Na-ion oxide P3 phase of formula (I) may be particularly useful as an active material in a Na-ion battery.

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