

Title (en)
METHOD FOR PRODUCING ZINCATE CRYSTALS OF AT LEAST ONE METAL, AND/OR A METALLOID AND/OR A LANTHANIDE, AND THE APPLICATIONS THEREOF

Title (de)
VERFAHREN ZUR HERSTELLUNG VON ZINKATKRISTALLEN AUS MINDESTENS EINEM METALL UND/ODER EINEM METALLOID UND/ODER EINEM LANTHANID SOWIE ANWENDUNGEN DAVON

Title (fr)
PROCÉDÉ DE FABRICATION DE CRISTAUX DE ZINCATE D'AU MOINS UN MÉTAL, ET/OU D'UN MÉTALLOÏDE ET/OU D'UN LANTHANIDE, AINSI QUE LEURS APPLICATIONS

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Abstract (en)
[origin: WO2018065735A1] The invention relates to a method for producing zincate crystals from a least one element other than zinc (Zn), marked "A", independently selected from a metal, a metalloid or a lanthanide, with the exception of zincate crystals that only comprise calcium (Ca) as element A, said method comprising at least the following steps: suspending different starting reactants comprising at least a source of the zinc element with a degree of oxidation +2 and a source of said A element(s) with a degree of oxidation from 1 to 6, in a liquid medium, so as to form a suspension called "starting suspension"; grinding said starting suspension at an ambient temperature lower than or equal to 50 °C, in a three-dimensional microbead grinder in a liquid medium during a residence time of 15 min or less; recovering, at the outlet of said three-dimensional microbead grinder, a suspension called "end suspension" comprising said starting reactants in the activated form or zincate crystals of said A element(s), which are generally in a hydrated form; and if necessary, the calcination of said end suspension when it comprises said starting reactants in the activated form so as to obtain generally non-hydrated zincate crystals of said A element(s).

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