

Title (en)

DRY PROCESS FOR SYNTHESIS OF A PHOSPHOR BY TREATMENT UNDER A FLUORINE ATMOSPHERE

Title (de)

TROCKENVERFAHREN ZUR HERSTELLUNG EINES PHOSPHORS DURCH BEHANDLUNG UNTER EINER FLUORATMOSPHÄRE

Title (fr)

PROCÉDÉ DE SYNTHÈSE EN VOIE SÈCHE D'UN LUMINOPHORE PAR TRAITEMENT SOUS ATMOSPHÈRE DE FLUOR

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Application

EP 21703271 A 20210203

Priority

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Abstract (en)

[origin: WO2021156320A1] The invention relates to a dry process for synthesis of a phosphor of formula $A_x[B\text{F}_y]:C$ comprising a step of providing an initial composition comprising at least two synthesis precursors and at least one chemical doping source, a step of heating the initial composition to a fluorination temperature under an inert atmosphere or under vacuum, and a step of treating, under a fluorine atmosphere, the composition obtained at the end of the heating step, and a step of returning to ambient temperature under an inert atmosphere. The invention also relates to a composition comprising a phosphor of formula $A_x[B\text{F}_y]:C$ and obtained according to the synthesis process described above, the composition being free of hydrogen fluoride.

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