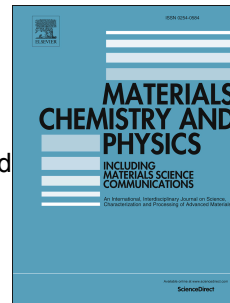


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P. Tadini, M. Sahli, K. Chetehouna, N. Gascoin, N. Bellel



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Effect of voltage on the characteristics of magnesium-lanthanum deposits synthesized by an electrodeposition process

M. Sahli¹, K. Chetehouna², N. Gascoin², N. Belle¹, P. Tadini^{2,*}

¹Laboratoire de Physique Energétique, Université de Constantine 1, Algeria

²INSA-CVL, Univ. Orléans, PRISME, EA 4229, F-18020, Bourges, France

³Univ. Orléans, GREMI, UMR 7343, F-18020, Bourges, France

*Address correspondence to Pietro TADINI, INSA Centre Val de Loire - Campus de Bourges, Laboratoire PRISME UPRES EA 4229, 88, Boulevard Lahitolle, CS 60013, 18022 Bourges Cedex, France.

Email: tadini.pietro@gmail.com

Phone: +33 07 81 32 20 60

Highlights:

- Synthesis of magnesium-lanthanum deposits by an electrodeposition process.
- Voltage effect is investigated using different physicochemical analysis techniques (EDS, XRD, FTIR and SEM).
- The EDS analysis shows the presence of three major elements (Mg, La and O) and a little amount of Cl.
- Two phases, namely Mg(OH)₂ and La(OH)₃ are identified.
- Heterogeneous chemical structures are formed on the surfaces of Mg-La samples.

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