

Accepted Manuscript

Synthesis, characterization, and electrochemical properties of bi-layered cathode films deposited on co-doped ceria

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PII: S0577-9073(17)30157-0
DOI: [10.1016/j.cjph.2017.11.003](https://doi.org/10.1016/j.cjph.2017.11.003)
Reference: CJPH 378



To appear in: *Chinese Journal of Physics*

Received date: 17 February 2017
Revised date: 6 November 2017
Accepted date: 7 November 2017

Please cite this article as: Ali Mater , Didier Fasquelle , Massoud Kahlaoui , Adel Madani ,
Chaabane Chefi , Synthesis, characterization, and electrochemical properties of bi- layered cathode
films deposited on co-doped ceria, *Chinese Journal of Physics* (2017), doi: [10.1016/j.cjph.2017.11.003](https://doi.org/10.1016/j.cjph.2017.11.003)

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Highlights

- $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ cathode formed a good adhesion with $\text{Ce}_{0.8}\text{Sm}_{0.17}\text{La}_{0.03}\text{O}_{1.9}$
- Crystallization of $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ phase was obtained at 850°C.
- Combined thick and thin porous cathode films give an interest electrical result.

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