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Combustion synthesis of LaNi0.6Fe0.4O3 perovskite  
as cathode contact material for IT-SOFCs

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| Jack Left (1), Mike Middle (1,2), Peter Wright (2) |
| (1) Fuel Cells Forever, Inc. |
| 123 Efficiency Street, CH-1543 Clean Town/Wonderland |
| (2) Faculty of Sciences and Technology  **Authorlist**  with **only one institution:**  no (1), (2) etc. are required  Copy all you do not change from your abstract .docx |
| 45 Sample Street, CH-8016 Town/Wonderland |
| Tel.: +41-56-987-1234 |
| [jsample@fastmail.com](mailto:jsample@fastmail.com) |

Abstract

This is a sample text: Perovskite sample of composition LaNi0.6Fe0.4O3 has been prepared by the glycinenitrate route using different amounts of glycine fuel (G/N= 0.5, 1.0 and 1.5), in order to study the sample preparation influence on the structural, morphological and electrical properties in the context of their possible use as cathode contact material for intermediate temperature solid oxide fuel cells (IT-SOFCs). The obtained materials have been characterized by X-ray diffraction (XRD), scanning electron microscopy (SEM), thermal expansion coefficient (TEC) and electrical conductivity measurements. X-ray powder diffraction (XRD) shows that all of the compounds have rhombohedral symmetry (space group: R-3c). All of the samples obtained using different amounts of glycine fuel have a porous microstructure with fine grain sizes.

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Introduction

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1. Scientific Approach

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2. Experiments/Calculations/Simulations

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3. Results

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References

[1] Jack Sample, Time Response of Polymer Electrolyte Fuel Cell Anodes. Proceedings of the Annual Meeting of the Electrochemical Society, Kyoto, Japan, July 1999

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