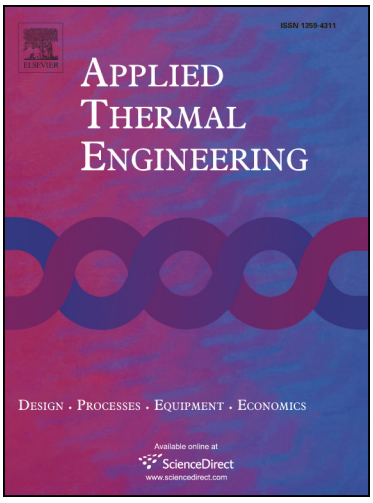

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PII: S1359-4311(17)33975-3
DOI: http://dx.doi.org/10.1016/j.applthermaleng.2017.06.061
Reference: ATE 10580

To appear in: *Applied Thermal Engineering*

Received Date: 21 February 2016
Revised Date: 7 April 2017
Accepted Date: 12 June 2017

Please cite this article as: P. Fu, M. Yan, M. Zeng, Q. Wang, Sintering Process Simulation of a Solid Oxide Fuel Cell Anode and Its Predicted Thermophysical Properties, *Applied Thermal Engineering* (2017), doi: http://dx.doi.org/10.1016/j.applthermaleng.2017.06.061

Revised Manuscript for *Applied Thermal Engineering* (ATE-2016-11703R1)

Presented at the 5th Asian Symposium on Computational Heat Transfer and Fluid Flow (ASCHT2015), 2015.11.22-11.25, Busan, Republic of Korea. (Original paper title: "Simulation of the sintering process of porous anode for solid oxide fuel cells" and Paper number ASCHT15-Mon02-004)

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Highlights

1. A CG-MD method is improved to simulate the sintering process of SOFC anode.
2. Nanostructure and relevant thermal properties of the sintered anode are obtained.
3. Effects of sintering conditions and composition are systematically investigated.
4. Analyses and predictions provide a guide to obtain the desired properties.