TABLE SII: Optimal conditions of membranes sintering

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| Composition | Sintering conditions | Relative density  |
| *Atmosphere* | *Sintering temperature* | *Heating/cooling rate* | *Dwell time* |
| La0.1Sr0.9FeO3-δ | Air | 1150°C | 5°C/min | 8h | 97% |
| La0.3Sr0.7FeO3-δ | Air | 1200°C | 5°C/min | 8h | 96% |
| La0.5Sr0.5FeO3-δ | Air | 1250°C | 5°C/min | 8h | 95% |
| La0.7Sr0.3FeO3-δ | Air | 1300°C | 5°C/min | 8h | 96% |
| La0.9Sr0.1FeO3-δ | Air | 1350°C | 5°C/min | 8h | 95% |
| LaFeO3-δ | Air | 1350°C | 5°C/min | 8h | 96% |