

Supplementary Information

The role of strontium in CeNiO₃ nano-crystalline perovskites for greenhouse gas mitigation to produce syngas

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Table S1. Textural properties and deactivation factors of $\text{Ce}_x\text{Sr}_{1-x}\text{NiO}_3$ ($x = 0.6-1$) perovskites.

| Perovskites | T1 (°C) | T2 (°C) | T3 (°C) |
|--|---------|---------|---------|
| CeNiO_3 | 150 | 420 | - |
| $\text{Ce}_{0.8}\text{Sr}_{0.2}\text{NiO}_3$ | 145 | 410 | - |
| $\text{Ce}_{0.6}\text{Sr}_{0.4}\text{NiO}_3$ | 130 | 450 | 870 |