

Supplementary Materials

Total Conductivity from EIS

A₂Ce₂O₇/ZnO at 600 °C

Sample	Ro	Rct	Rt	Total Conductivity
Nd ₂ Ce ₂ O ₇	0.029	0.156	0.185	0.844594595
Bi ₂ Ce ₂ O ₇	0.184	0.305	0.489	0.319529652
La ₂ Ce ₂ O ₇	0.392	0.523	0.915	0.170765027

A₂Ce₂O₇/LNCZ at 600 °C

Sample	Ro	Rct	Rt	Total Conductivity
Nd ₂ Ce ₂ O ₇	0.003	0.139	0.142	1.100352113
Bi ₂ Ce ₂ O ₇	0.102	0.214	0.316	0.494462025
La ₂ Ce ₂ O ₇	0.312	0.441	0.753	0.20750332

LNCZ/A₂Ce₂O₇/LSFC at 600 °C

Sample	Ro	Rct	Rt	Total Conductivity
Bi ₂ Ce ₂ O ₇	0.013	0.147	0.16	0.9765625
Nd ₂ Ce ₂ O ₇	0.133	0.216	0.349	0.447707736
La ₂ Ce ₂ O ₇	0.373	0.504	0.877	0.20750332