OAK RIDGE NATIONAL LABORATORY
Managed by UT-Battelle for the Department of Energy

Solid Oxide Fuel Cell Cathode Material

Disclosure Number

200501587

Technology Summary

A mixed ionic and electronic conducting cathode material has been develop with the general formula A2B2O5 where A =Ca, Sr, Ba, La, Bi and B=Fe, Ni, Ti, Co, Mn, Cu, V or mixtures there of. This new material demonstrates high oxygen ion conductivity and when used as a cathode for a solid oxide fuel cell distributes the oxygen exchage from a single point to a three dimensional surface reducing interfacial polarization losses and improving fuel cell performance.

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