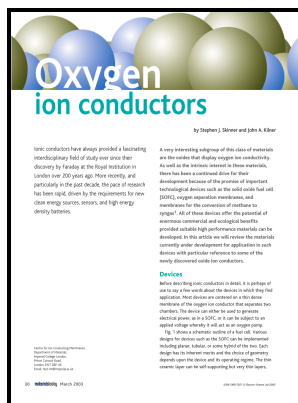


Ceramic oxygen ion conductors and their technological applications

Institute of Materials - Perovskite



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British ceramic proceedings -- no.56 Ceramic oxygen ion conductors and their technological applications

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Discovery of a new crystal structure family of oxide

Further improvements facilitate an export industry In the early 1990s improvements to the sensor were made and patented by the Division.

Ionic Conduction and Applications

Thus in 1974 a small team comprising Dr John Bannister, Dr Ken Johnston, Mr Bill Garrett and Mr Geoff Lavery began work to develop a sensor for use in gases, based on the zirconia pellet in alumina tube concept since this combination offered the ruggedness needed for many in-situ applications.

Ceramic Oxygen Ion Conductors and their Technological Applications (British Ceramic Proceedings.)

NdBaInO₄ was synthesized by a solid-state reaction and the crystal structure was determined from synchrotron and neutron powder diffraction data. These enabled the zirconia-based pellet to be replaced by a thin disc, welded across the end of the alumina tube, free of cracks and absolutely leak-tight. Data for representative conductors are tabulated.

Discovery of a new crystal structure family of oxide

Such joints are usually associated with the demand for high or ultrahigh vacuum tightness and acceptable mechanical strength for use in the field. In 1977 an exclusive licence was granted to Ceramic Oxide Fabricators COF, at that time a small Australian ceramic manufacturer, to make sensors and sell to customers around the world. It includes electrically insulating as well as semi-conducting, ionic-conducting and superconducting materials.

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