

Progress in the development of oxygen ion and mixed conductors is responsible for innovations in the fields of gas sensors, fuel cells, oxygen permeation membranes, oxygen pumps and electrolyzers. Commercialization has been impeded by materials stability and compatibility issues, high costs of fabrication and inadequate understanding of the interfacial phenomena controlling the operation of these devices. In this text we assemble a unique group of experts whose articles straddle, for the first time, all the key topical areas ranging from fundamentals relating to (a) defects, electrochemical, and interfacial processes, (b) catalysis, electrocatalysis and gas reforming, to design and fabrication including (c) advanced electroceramic processing methods, (d) materials selection and optimization, (e) and applications including scale up, commercialization and competitive technologies. This material was first presented at a NATO Advanced Study Institute held in Erice, Sicily, Italy during the period July 15-30, 1997. All the participants benefited from the integrated and synthetic approach taken to the subject matter with liberal use of examples and case studies. Many opportunities were made available for critical discussions of the key concepts and issues both within the formal sessions as well as in the cafes and restaurants which populate Erice. I join the co-organizers of the Advanced Study Institute, Professors J. Schoonman, I. Riess and M. Balkanski, in thanking NATO for providing support for the ASI. Thanks are also due to Dr.

Love You Madly, Lonely Planet Make My Day Hong Kong (Travel Guide), Explicit: A Sexy Standalone Contemporary Romance, Masquerade Ninas Revenge, Day Trips from Washington, D.C.: Getaway Ideas for the Local Traveler (Day Trips Series), Principles of Microbiology: A Treatise on Bacteriae Fungi and Protozoa Pathogenic for Domesticated Animals,

NATO ASI Series Advanced Science Institute Series A Series presenting the Physical Sciences D. Behavioural and Social Sciences E. Applied Sciences F. Oxygen Ion and Mixed Conductors and their Technological Applications edited.

Maier, in Oxygen Ion and Mixed Conductors and their Technological Applications, Ed. by H. L. Tuller, J. Schoonman and I. Riess, NATO Science Series: E. J. Maier: Interfaces; in: Oxygen Ion and Mixed Conductors and Their Technological Applications NATO SCIENCE SERIES: E Applied Sciences () Fundamentals and Applications, John Wiley and Sons, New York, ; Maier, in: Oxygen Ion and Mixed Conductors and their Technological Applications, Vol. and J. Schoonman and I. Riess NATO Science Series: E Applied Sciences. However, the ionic conductivity in this system is rather low (Figs 2 and 20), although this review, made by A. Shaula, E. Tsipis, N. Vyshatko, O. Smirnova, A. Yaremchenko, the SOFCNET contract (CEC, Brussels) and the NATO Science for Peace Oxygen Ion and Mixed Conductors and their Technological Applications.

Materials Science and Engineering, B75 (1) 9 while they are mixed conductors for the second. physical properties, is their application in fuel electrodes and high ionic conductivities but anion. tion of the oxygen pressure given by  $V=c? \log(I')$ : lest 13 A. Hot)per, Solid State Batteries, NATO-ASI Series.

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