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Titolo	Advances in solid oxide fuel cells : a collection of papers presented at the 29th International Conference on Advanced Ceramics and Composites, January 23-28, 2005, Cocoa Beach, Florida // editor, Narottam P. Bansal ; general editors, Dongming Zhu, Waltraud M. Kriven
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Advances in Solid Oxide Fuel Cells; Contents; Preface; Overview and Current Status; Worldwide SOFC Technology Overview and Benchmark; U.S. DOE Solid Oxide Fuel Cells: Technical Advances; Processing/Fabrication; Single-Step Co-Firing Technique for SOFC Fabrication; Fabrication and Properties of an Anode-Supported Tubular IT-SOFC Based on Lanthanum Gallate; Low Cost SOFC Manufacturing Process; Y2O3-Stabilized ZrO2 Aerogels Prepared from an Epoxide Assisted Sol-Gel Synthesis for Use in SOFC Composite Cathodes; Pulsed

Laser Deposition of BaCe<sub>0.85</sub>Y<sub>0.15</sub>O<sub>3</sub> Films; Characterization/Testing  
Electrochemical Characterization of Vacuum Plasma Sprayed Planar  
Solid Oxide Fuel Cells and Short Stacks for Mobile Application Single  
Cell Testing and Performance Analysis of Planar Solid Oxide Fuelcells;  
Long-Term SOFC Stability with Coated Ferritic Stainless Steel  
Interconnect; Chemical Diffusion and Hydrogen Separation Properties of  
Lanthanum Ferrite and Doped Ceria Composite Mixed Conductors;  
Vapor Phase Silica Transport during SOFC Operation at 1000°C; The  
Effect of Inverter Ripple on Solid Oxide Fuel Cell Performance;  
Electrodes  
Study of Praseodymium Strontium Manganite for the Potential Use as a  
Solid Oxide Fuel Cell Cathode Chromium Poisoning Effects on Various  
Cathodes; Anomalous Shrinkage of Lanthanum Strontium Manganite;  
Development and Characterization of SOFC Ni-YSZ Anodes Using  
Highly Porous Ni Foam; High Purity H<sub>2</sub>/H<sub>2</sub>O/Nickel/Stabilized Zirconia  
Electrodes at 500°C; Characterization of Pore Structure of Electrodes of  
Solid Oxide Fuel Cells; Influence of Processing Parameters on Porosity  
of NiO-YSZ Solid Oxide Fuel Cell Anode Material  
Property Control of Cathodes and Anodes Produced by Slip Casting for  
Planar Solid Oxide Fuel Cells/Interconnects; Surface Modification on  
Ferritic and Ni Based Alloys for Improved Oxidation Resistance in SOFC  
Applications; Ferritic Stainless Steel SOFC Interconnects with Thermally  
Grown (Mn,Co)<sub>3</sub>O<sub>4</sub> Spinel Protection Layers; Chemical Reaction Behavior  
between Glass-Ceramic Sealants and High Chromium Ferritic Steels  
Under Various SOFC Conditions; Electrical Contacts between Cathodes  
and Metallic Interconnects in Solid Oxide Fuel Cells; Seals  
Finite Element Analysis of the Bonded Compliant Seal Design - A New  
Sealing Concept for Use in Planar Solid Oxide Fuel Cells/Glass-Ceramic  
Materials of the System BaO-CaO-SiO<sub>2</sub> as Sealants for SOFC  
Applications; Layered Composite Seals for Solid Oxide Fuel Cells  
(SOFC); Glass Mica Composite Seals for Solid Oxide Fuel Cells .;  
Combined Ageing and Thermal Cycling of Compressive Mica Seals for  
Solid Oxide Fuel Cells; Mechanical Properties; Mechanical Properties of  
SOFC Seal Glass Composites; Fracture Energies of Brittle Sealants for  
Planar Solid Oxide Fuel Cells  
Failure Probability of Solid Oxide Fuel Cells

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### Sommario/riassunto

Due to its many potential benefits, including high electrical efficiency and low environmental emissions, solid oxide fuel cell (SOFC) technology is the subject of extensive research and development efforts by national laboratories, universities, and private industries. This collection of papers provides valuable insights on materials-related aspects of fuel cells such as SOFC component materials, materials processing, and cell/stack design, performance, and stability. Emerging trends in electrochemical materials, electrochemicals, interface engineering, long-term chemical interactions are also cov

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2. Record Nr.	UNINA9910397304003321
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