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| Autore | JUAN : , de la Cruz <santo> |
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| Pubbl/distr/stampa | Milano : Bompiani Il pensiero occidentale, 2010 |
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| Collana | Ceramic Engineering and Science Proceedings |
| Altri autori (Persone) | BansalNarottam P SinghDileep, Dr. SinghPrabhakar WidjajaSujanto |
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| Nota di contenuto | Advances in Solid Oxide Fuel Cells VII; Contents; Preface; Introduction; CELL/STACK DEVELOPMENT; Recent Development of SOFC Cell and Stack at NTT; Investigation of the Effects of NiO-ScSZ-Layer Insertion on the Current Collection and Catalytic Properties of ScSZ-based Micro-Tubular SOFC; ELECTROLYTES; Effect of Dopants on CeO ₂ Based Solid State Electrolytes for Intermediate Temperature Electrochemical Devices; ELECTRODES; Electrochemical Phenomena in MEA Electrodes; The Effect of A-Site Stoichiometry on LSCF Cathode Performance and Stability Influence of Operational Parameters on LSCF and LSF Stability Assessment of the Electrochemical Properties of BSCF and Samarium Doped BSCF Perovskites; Role of Sintering Atmosphere on the Stability of LSM-YSZ Composite; INTERCONNECTS; Crofer 22 APU in Real SOFC |

Stacks; Assessment of Chromium Evaporation from Chromia and Alumina Forming Alloys; Effect of Chromium Doping on the Crystal Structure, Electrical Conductivity and Thermal Expansion of Manganese Cobalt Spinel Oxides; Effect of Metallic Interconnect Thickness on its Long-Term Performance in SOFCs
Characterization of the Conductive Protection Layers on Alloy Interconnect for SOFCNOVEL CELL/STACK DESIGN AND PROCESSING;
Advanced Manufacturing Technology for Solid Oxide Fuel Cells;
Production of Current Collector-Supported Micro-Tubular Solid Oxide Fuel Cells with Sacrificial Inner Core; RELIABILITY/DEGRADATION;
Numerical Modeling of Cathode Contact Material Densification;
Observations on the Air Electrode-Electrolyte Interface Degradation in Solid Oxide Electrolysis Cells; FUEL REFORMING; Carbon Dioxide Reforming of Methane for Solid Oxide Fuel Cells; Author Index

Sommario/riassunto

This book is a collection of papers from The American Ceramic Society's 35th International Conference on Advanced Ceramics and Composites, held in Daytona Beach, Florida, January 23-28, 2011. This issue includes papers presented in the 8th International Symposium on Solid Oxide Fuel Cells: Materials, Science, and Technology on topics such as Cell and Stack Development;
Electrochemical/Mechanical/Thermal Performance; Electrodes; Interconnects; Novel Cell/Stack Design and Processing; and Reliability/Degradation.
