1. Record Nr. UNINA9910704757603321

Autore	Hamed A (Awatef)
Titolo	Combined experimental and numerical simulations of thermal barrier coated turbine blades erosion / / Awatef Hamed [and five others]
Pubbl/distr/stampa	Cleveland, Ohio : , : National Aeronautics and Space Administration, Glenn Research Center, , [2013]
Descrizione fisica	1 online resource (20 pages) : illustrations
Collana	NASA/TM 2013-217857
Soggetti	Coatings Computational fluid dynamics Erosion Lagrangian function Particle interactions Three dimensional models
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from title screen (viewed Aug. 6, 2013). "April 2013."
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Titolo	Advances in solid oxide fuel cells VII : a collection of papers presented at the 35th International Conference on Advanced Ceramics and Composites, January 23-28, 2011, Daytona Beach, Florida / / edited by Narottam P. Bansal, Prabhaker Singh ; volume editors, Sujanto Widjaja, Dileep Singh
Pubbl/distr/stampa	Hoboken, N.J., : Wiley, c2011
ISBN	9786613332554 9781283332552 1283332558 9781118095249 1118095243 9781118172612 1118172612
Edizione	[1st ed.]
Descrizione fisica	1 online resource (224 p.)
Collana	Ceramic Engineering and Science Proceedings
Altri autori (Persone)	BansalNarottam P SinghDileep (Materials scientist) SinghPrabhakar WidjajaSujanto
Disciplina	621.312429
Soggetti	Solid oxide fuel cells Fuel cells
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
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 CeO2 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.