1. Record Nr. UNINA9910141192503321

Titolo	Advances in solid oxide fuel cells VII [[electronic resource]] : 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	1-283-33255-8 9786613332554 1-118-09524-3 1-118-17261-2
Descrizione fisica	1 online resource (224 p.)
Collana	Ceramic Engineering and Science Proceedings
Altri autori (Persone)	BansalNarottam P SinghDileep, Dr. SinghPrabhakar WidjajaSujanto
Disciplina	621.312429
Soggetti	Solid oxide fuel cells Fuel cells
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
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.

2. Record Nr. UNINA9910784448303321

Autore	Smith Peter F (Peter Frederick), <1930-, >
Titolo	Architecture in a climate of change : a guide to sustainable design / / Peter F. Smith
Pubbl/distr/stampa	Amsterdam ; ; Boston : , : Architectural Press, , 2005
ISBN	1-136-42852-6 1-136-42853-4 1-280-64218-1 9786610642182 0-08-045746-0
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (295 p.)
Disciplina	720.47
Soggetti	Architecture and energy conservation Architecture - Environmental aspects Architecture and climate Sustainable architecture
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Previous ed.: 2001. Includes index.
Nota di contenuto	Architecture in a Climate of Change; Contents; Foreword; Acknowledgements; Introduction; Chapter One Climate change - nature or human nature?; Chapter Two Predictions; Chapter Three Renewable technologies - the marine environment; Chapter Four Renewable technologies - the wider spectrum; Chapter Five Low energy techniques for housing; Chapter Six Insulation; Chapter Seven Domestic energy; Chapter Eight Advanced and ultra-low energy houses; Chapter Nine Harvesting wind and water; Chapter Ten Existing housing: a challenge and opportunity Chapter Eleven Low energy techniques for non-domestic buildingsChapter Twelve Ventilation; Chapter Thirteen Energy options; Chapter Fourteen Lighting - designing for daylight; Chapter Fifteen Lighting - and human failings; Chapter Sixteen Cautionary notes; Chapter Seventeen Life-cycle assessment and recycling; Chapter Eighteen State of the art case studies; Chapter Nineteen Integrated

	district environmental design; Chapter Twenty An American perspective; Chapter Twenty One Emergent technologies and future prospects; Appendix One Key indicators for sustainable design Appendix Two An outline sustainability syllabus for designersIndex
Sommario/riassunto	Revised to incorporate and reflect changes and advances since it was first published the new edition of Architecture in a Climate of Change provides the latest basic principals of sustainability and the future of sustainable technology.Including new material on wind generation, domestic water conservation, solar thermal electricity as well as international case studies Architecture in a Climate of Change encourages readers to consider new approaches to building making minimum demand on fossil based energy.