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Nota di contenuto	Advances in Solid Oxide Fuel Cells VIII: A Collection of Papers Presented at the 36th International Conference on Advanced Ceramics and Composites; Contents; Preface; Introduction; Investigation of Novel Solid Oxide Fuel Cell Cathodes Based on Impregnation of SrTixFe1-xO3- into Ceria-Based Backbones; Freeze-Tape Casting for the Design of Anode-Delivery Layer in Solid Oxide Fuel Cells; Tailoring the Anode Microstructure in Micro-Tubular SOFCS by the Optimization of the Slurry; Mixed Conducting Praseodymium Cerium Gadolinium Oxide (PCGO) Nano-Composite Cathode for ITSOFC Applications Development of GDC-(LiNa)CO3 Nano-Composite Electrolytes For Low Temperature Solid Oxide Fuel CellsWeibull Strength Variations between Room Temperature and High Temperature Ni-3YSZ Half-Cells; In-Situ

XRD of Operating LSFC Cathodes: Development of a New Analytical Capability; Proton Conduction Behaviors in Ba- and Mg-Doped LaGaO3; Silver-Palladium Alloy Electrodes for Low Temperature Solid Oxide Electrolysis Cells (SOEC); Development of Improved Tubular Metal-Supported Solid Oxide Fuel Cells Towards High Fuel Utilization Stability Highlighting DOE EERE Efforts for the Development of SOFC Systems for APU and Stationary ApplicationsEfficient Planar SOFC Technology for a Portable Power Generator; Investigation of Ni-Yttria Stabilized Zirconia Anode for Solid-Oxide Fuel Cell using XAS Analysis; Processing of Gadolinium-Doped Ceria Electrolyte Layers with a Thickness of ~1 mm: Thin Film Wet Coating Methods and PVD; Author Index

Sommario/riassunto

The Ninth International Symposium on Solid Oxide Fuel Cells: Materials, Science, and Technology was held in January 2012 as part of the 36th International Conference on Advanced Ceramics and Composites (ICACC). This symposium provided an international forum for scientists, engineers, and technologists from around the world to present and discuss the latest advances in solid oxide fuel cells. This issue features fourteen papers selected from the symposium, offering readers a broad panorama of the current status of solid oxide fuel cells technology, as well as emerging issues and future direc