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Titolo	Advances in solid oxide fuel cells VI : a collection of papers presented at the 34th International Conference on Advanced Ceramics and Composites, January 24-29, 2010, Daytona Beach, Florida / / edited by Prabhakar Singh [and three others] ; The American Ceramic Society
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Nota di contenuto	Advances in Solid Oxide Fuel Cells VI; Contents; Preface; Introduction; Solid Oxide Fuel Cell (SOFC) Based Power Systems for Mobile Applications; Micro-Tubular Solid Oxide Fuel Cells with Embedded Current Collector; Durability Improvement of Segmented-in-Series Cell Stacks for Small Scale SOFCs; Perovskite Materials for Use as Sulfur Tolerant Anodes in SOFCs; Preparation and Characterization of LSCF (La0.58Sr0.4CO0.2Fe0.8O3.a)/ GDC (Ce0.8Gd0.2O2) Cathode for IT-Solid Oxide Fuel Cell; Effects of Geometrical and Mechanical Properties of Various Components on Stresses of the Seals in SOFCs Stability of Materials in High Temperature Water Vapor: SOFC ApplicationsOxygen Diffusion in Bi2M4Og (M = AI, Ga, Fe) Systems and the Effect of Sr Doping in Bi2-2XSr2XM4O9_x Studied by Isotope Exchange Experiments and IR Absorption; Aqueous Processing for Self Standing YSZ Films for SOFC Studies; Synthesis and Sintering of Yttrium-Doped Barium Zirconate; Use of Hydrocarbon Fuel for Micro Tubular SOFCs; Phase Diagram of Proton-Conducting Ba(Zr0.8-xCexY0.2)02.9 Ceramics by In Situ Micro-Raman Scattering and X-Ray Diffraction Electrical Conductivity of Composite Electrolytes Based on BaO-Ce02-GdO1.5 System in Different Atmospheres3D CFD Analysis for Solid Oxide Fuel Cells with Functionally Graded Electrodes; Fabrication and Properties of Nano-Structural Bi203-Y2O3-Y2O3-ZrO2 Composite; Author index
Sommario/riassunto	The Seventh International Symposium on Solid Oxide Fuel Cells (SOFC): Materials, Science, and Technology was held during the 34th International Conference and Exposition on Advanced Ceramics and Composites in Daytona Beach, FL, January 24 to 29, 2010. This symposium provided an international forum for scientists, engineers, and technologists to discuss and exchange state-of-the-art ideas, information, and technology on various aspects of solid oxide fuel cells. A total of 75 papers