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This book, first published in 2005, covers a wide range of topics related to solid-state ionics. In particular, it highlights advances in materials for energy and the environment. The book is divided into five parts that emphasize the strong impact of fuel cell and battery research in the field. Part I focuses on solid ionic conductors - experiments and theory. Part II is devoted to solid-state ionic devices and is complementary to the papers on cation and anion conductors. Central attention goes to gas permeation membranes, especially for oxygen and hydrogen. Chemical sensors are the focus of Part III. They are important for ecologically responsible development of mankind, given that pollutant emission control requires reliable and fast detection devices. Materials for fuel cells are addressed in Part IV of the book. The largest cluster of contributions falls to Part V - rechargeable lithium batteries. These electrochemical systems have a huge technological impact on mobile phones, laptops and other portable electronic equipment.

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Electrochemical Energy: Advanced Materials and Technologies covers the development of advanced materials and technologies for electrochemical energy conversion and storage. The book was created by participants of the International Conference on Electrochemical Materials and Technologies for Clean Sustainable Energy (ICES-2013) held in Guangzhou, China, and incorporates select papers presented at the conference. More than 300 attendees from across the globe participated in ICES-2013 and gave presentations in six major themes: Fuel cells and hydrogen energy Lithium batteries and advanced secondary batteries Green energy for a clean environment Photo-Electrocatalysis Supercapacitors Electrochemical clean energy applications and markets Comprised of eight sections, this book includes 25 chapters featuring highlights from the conference and covering every facet of synthesis, characterization, and performance evaluation of the advanced materials for electrochemical energy. It thoroughly describes electrochemical energy conversion and storage technologies such as batteries, fuel cells, supercapacitors, hydrogen generation, and their associated materials. The book contains a number of topics that include electrochemical processes, materials, components, assembly and manufacturing, and degradation mechanisms. It also addresses challenges related to cost and performance, provides varying perspectives, and emphasizes existing and emerging solutions. The result of a conference encouraging enhanced research collaboration among members of the electrochemical energy community, Electrochemical Energy: Advanced Materials and Technologies is dedicated to the development of advanced materials and technologies for electrochemical energy conversion and storage and details the technologies, current achievements, and future directions in the field.

This fourth volume of the series "Progress in Physical Chemistry" is a collection of mini-review articles written by those who were project leaders and members of the Collaborative Research Centre (SFB) 458 of the German Research Foundation (DFG). The articles are based on ten years of intense coordinated research and report particularly on the scientific progress made at SFB 458 since 2005. Their common theme is the study of ionic motion in disordered materials over wide scales in space and time. The mini reviews thus address key questions in the rapidly developing field of SOLID STATE IONICS, a discipline which has its roots in the physics and chemistry of solids and is now a thriving branch of materials science and engineering. In the materials studied, the dynamics of the mobile ions are de-termined by disorder and interaction. This complicated many-particle problem constitutes an area of basic research in its own right. At SFB 458, it has been tackled on complementary routes, i.e., by synthesis of new disordered electrolytes, by advanced experimental techniques and by numerical simulations and model concepts. Substantial progress has thus been made in developing a coherent view and a new understanding of the ionic motion in materials with disordered structures.

Impedance Spectroscopy is a powerful measurement method used in many application fields such as electrochemistry, material science, biology and medicine, semiconductor industry and sensors. This book covers new advances in the field of impedance spectroscopy including fundamentals, methods and applications by contributions from international scientists.

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.

Composite materials, often shortened to composites, are engineered or naturally occurring materials made from two or more constituent materials with significantly different physical or chemical properties which remain separate and distinct at the macroscopic or microscopic scale within the finished structure. The aim of this book is to provide comprehensive reference and text on composite materials and structures. This book will cover aspects of design, production, manufacturing, exploitation and maintenance of composite materials. The scope of the book covers scientific, technological and practical concepts concerning research, development and realization of composites.

Reporting on the work of an international team of scientists actively involved in the study of thermoplastic elastomers (TPE) based on polyesters, polyamides, and polyurethanes, this book is the first to provide a detailed description of condensation TPE with close attention paid to polyamide-based systems. Reflecting the increasing importance of TPE as engineering plastics, the authors discuss the widened application opportunities by preparing systems with various chemical compositions and molecular structures as (semi-) interpenetrating networks. The contents also cover the chemical aspects, physical structure and properties, life cycle assessment, and recycling possibilities as well as such unique "smart" properties like the shape memory effect of the three classes of thermoplastic elastomers.

This issue contains 13 papers from The American Ceramic Society ' s 38th International Conference on Advanced Ceramics and Composites, held in Daytona Beach, Florida, January 26-31, 2014 presented in Symposium 3 - 12th International Symposium on Solid Oxide Fuel Cells: Materials, Science, and Technology.