

1. Record Nr.	UNINA9910482231103321
Autore	Kirchmann Johann <1575-1643.>
Titolo	Joh. Kirchmanni Lubeccensis De annulis liber singularis. Accedunt Georgii Longi, Abrahami Gorlæi, et Henr. Kornmanni de iisdem tractatus absolutissimi [[electronic resource]]
Pubbl/distr/stampa	Leiden, : Hackios, 1672
Descrizione fisica	Online resource ([24], 249, [27], 140, [22], 22, 65, [3] p, 12°)
Lingua di pubblicazione	Latino
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Reproduction of original in Koninklijke Bibliotheek, Nationale bibliotheek van Nederland.
2. Record Nr.	UNINA9910254153103321
Titolo	Organic-Inorganic Composite Polymer Electrolyte Membranes : Preparation, Properties, and Fuel Cell Applications / / edited by Dr Inamuddin, Ali Mohammad, Abdullah M. Asiri
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-52739-8
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XX, 460 p. 145 illus., 75 illus. in color.)
Disciplina	541.2254
Soggetti	Polymers Ceramics Glass Composite materials Electrochemistry Renewable energy resources Fossil fuels Polymer Sciences Ceramics, Glass, Composites, Natural Materials Renewable and Green Energy Fossil Fuels (incl. Carbon Capture)

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Organic-inorganic Membranes Impregnated with Ionic Liquid -- Organic/TiO₂ Nanocomposite Membranes: Recent Developments -- Organic/Silica Nanocomposite Membranes -- Organic/Zeolites Nanocomposite Membranes -- Composite Membranes Based on Heteropolyacids and Their Applications in Fuel Cells -- Organic/Montmorillonite Nanocomposite Membranes -- Electrospun Nanocomposite Materials for Polymer Electrolyte Membrane Methanol Fuel Cells -- A Basic Overview of Fuel Cells: Thermodynamics and Cell Efficiency -- Organic/Zirconia and Sulfated Zirconia Nanocomposite Membranes for Proton Exchange Membrane Fuel Cells -- Electrochemical Promotional Role of Under-rib Convection based Flow-field in Polymer Electrolyte Membrane Fuel Cells -- Methods for the Preparation of Organic-inorganic Nanocomposite Polymer Electrolyte Membranes for Fuel Cells -- An Overview of Chemical and Mechanical Stabilities of Polymer Electrolytes Membrane -- Electrospun Nanocomposite Materials for Polymer Electrolyte Membrane Fuel Cells -- Fabrication Techniques for the Polymer Electrolyte Membranes for Fuel Cells -- Chitosan Based Polymer Electrolyte Membranes for Fuel Cell Applications -- Fuel Cells: Construction, Design and Materials -- Proton Conducting Polymer Electrolytes for Fuel Cells via Electrospinning Technique.
Sommario/riassunto	This volume explores the latest developments in the area of polymer electrolyte membranes (PEMs) used for high-temperature fuel cells. Featuring contributions from an international array of researchers, it presents a unified viewpoint on the operating principles of fuel cells, various methodologies used for the fabrication of PEMs, and issues related to the chemical and mechanical stabilities of the membranes. Special attention is given to the fabrication of electrospun nanocomposite membranes. The editors have consciously placed an emphasis on developments in the area of fast-growing and promising PEM materials obtained via hygroscopic inorganic fillers, solid proton conductors, heterocyclic solvents, ionic liquids, anhydrous H₃PO₄ blends, and heteropolyacids. This book is intended for fuel cell researchers and students who are interested in a deeper understanding of the organic-inorganic membranes used in fuel cells, membrane fabrication methodologies, properties and clean energy applications.