A comprehensive overview of the main characterization techniques of polymer electrolytes and their applications in electrochemical devices

Polymer Electrolytes is a comprehensive and up-to-date guide to the characterization and applications of polymer electrolytes. The authors— noted experts on the topic—discuss the various characterization methods, including impedance spectroscopy and thermal characterization. The authors also provide information on the myriad applications of polymer electrolytes in electrochemical devices, lithium ion batteries, supercapacitors, solar cells and electrochromic windows.

Over the past three decades, researchers have been developing new polymer electrolytes and assessed their application potential in electrochemical and electrical power generation, storage, and conversion systems. As a result, many new polymer electrolytes have been found, characterized, and applied in electrochemical and electrical devices. This important book:

- Reviews polymer electrolytes, a key component in electrochemical power sources, and thus benefits scientists in both academia and industry
- Provides an interdisciplinary resource spanning electrochemistry, physical chemistry, and energy applications
- Contains detailed and comprehensive information on characterization and applications of polymer electrolytes
Written for materials scientists, physical chemists, solid state chemists, electrochemists, and chemists in industry professions, Polymer Electrolytes is an essential resource that explores the key characterization techniques of polymer electrolytes and reveals how they are applied in electrochemical devices.

ABOUT THE AUTHOR

Tan Winie is Associate Professor in the School of Physics and Material Science at Universiti Teknologi MARA, Malaysia. She is an Associate Fellow of the Malaysian Scientific Association.

Abdul Kariem Arof is a retired Professor in the Department of Physics at University of Malaya, Malaysia.

Sabu Thomas is Professor, School of Chemical Sciences and Vice Chancellor, Mahatma Gandhi University, India.

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