

ELECTROCHEMICAL ENERGY STORAGE AND CONVERSION

LITHIUM-ION BATTERIES

Fundamentals and Applications

Edited by
Yuping Wu



Lithium Ion Batteries Fundamentals And Applications Electrochemical Energy Storage And Conversion

Joey Jung, Pang-Chieh Sui, Jiujuun Zhang



Lithium Ion Batteries Fundamentals And Applications Electrochemical Energy Storage And Conversion:

Lithium-Ion Batteries Yuping Wu, 2015-04-24 *Lithium Ion Batteries Fundamentals and Applications* offers a comprehensive treatment of the principles background design production and use of lithium ion batteries Based on a solid foundation of long term research work this authoritative monograph Introduces the underlying theory and history of lithium ion batteries Describes the key components **Redox Flow Batteries** Huamin Zhang, Xianfeng Li, JiuJun Zhang, 2017-11-22 Flow batteries have received attention in large scale energy storage due to their flexible design high safety high energy efficiency and environmental friendliness In recent years they have been rapidly developed and tested in a variety of scales that prove their feasibility and advantages of use As energy becomes a global focus it is important to consider flow battery systems This book offers a detailed introduction to the function of different kinds of redox flow batteries including vanadium flow batteries as well as the electrochemical processes for their development materials and components applications and near future prospects *Redox Flow Batteries Fundamentals and Applications* will give readers a full understanding of flow batteries from fundamentals to commercial applications **Electrochemical Energy** Pei Kang Shen, Chao-Yang Wang, San Ping Jiang, Xueliang Sun, JiuJun Zhang, 2018-10-08 *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 Electro catalysis 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 **Electrochemical Energy Conversion and Storage** Yuping Wu, Rudolf Holze, 2022-03-14 This pioneering textbook on the topic provides a clear and well structured description of the fundamental chemistry involved in these systems as well

as an excellent overview of the real life practical applications Prof Holze is a well known researcher and an experienced author who guides the reader with his didactic style and readers can test their understanding with questions and answers throughout the text Written mainly for advanced students in chemistry physics materials science electrical engineering and mechanical engineering this text is equally a valuable resource for scientists and engineers working in the field both in academia and industry

Advanced Bifunctional Electrochemical Catalysts for Metal-Air Batteries Yan-Jie Wang, Rusheng Yuan, Anna Ignaszak, David P. Wilkinson, Jiujun Zhang, 2018-12-14 Metal air batteries MABs have attracted attention because of their high specific energy low cost and safety features This book discusses science and technology including material selection synthesis characterization and their applications in MABs It comprehensively describes various composite bifunctional electrocatalysts corrosion oxidation of carbon containing air cathode catalysts and how improvements can be achieved in the catalytic activities of oxygen reduction reaction and oxygen evolution reaction and their durability stability This book also analyzes compares and discusses composite bifunctional electrocatalysts in the applications of MABs matching the fast information of commercial MABs in requirements Aimed at researchers and industry professionals this comprehensive work provides readers with an appreciation for what bifunctional composite electrocatalysts are capable of how this field has grown in the past decades and how bifunctional composite electrocatalysts can significantly improve the performance of MABs It also offers suggestions for future research directions to overcome technical challenges and further facilitate research and development in this important area

Hydrometallurgical Recycling of Lithium-Ion Battery Materials Joey Jung, Pang-Chieh Sui, Jiujun Zhang, 2023-02-24 The expanding market share of lithium ion batteries LIBs driven by the secondary battery and electric vehicle markets has consequently led to the accumulation of spent LIBs This presents a unique business opportunity for recovering and recycling valuable metals from the spent lithium ion cathode materials Hydrometallurgical Recycling of Lithium Ion Battery Materials provides a comprehensive review of the available hydrometallurgical technologies for recycling spent lithium ion cathode active materials The aim of this book is to raise awareness of LIB recycling provide comprehensive knowledge of hydrometallurgical recycling of lithium cathode active materials and promote an environmentally friendlier hydrometallurgical recycling process Key Features Summarizes current recycling processes challenges and perspectives Offers a comprehensive review of current commercialized LIB recycling companies Showcases an innovative closed loop hydrometallurgical recycling process to recycle lithium cathode materials Provides detailed modeling and economic analyses of several hydrometallurgical recycling processes Features practical cases and data developed by the authors Offering the most up to date information on LIB material recycling this book is aimed at researchers and professionals in materials chemical electrical and mechanical engineering as well as chemists working on battery technologies

Carbon Dioxide Reduction through Advanced Conversion and Utilization Technologies Yun Zheng, Bo Yu, Jianchen Wang, Jiujun Zhang, 2019-05-03 Carbon Dioxide Reduction through Advanced Conversion and Utilization

Technologies covers fundamentals advanced conversion technologies economic feasibility analysis and future research directions in the field of CO₂ conversion and utilization This book emphasizes principles of various conversion technologies for CO₂ reduction such as enzymatic conversion mineralization thermochemical photochemical and electrochemical processes It addresses materials components assembly and manufacturing degradation mechanisms challenges and development strategies Applications of conversion technologies for CO₂ reduction to produce useful fuels and chemicals in energy and industrial systems are discussed as solutions to reduce greenhouse effects and energy shortages Particularly the advanced materials and technology of high temperature co electrolysis of H₂O and CO₂ to produce sustainable fuels using solid oxide cells SOCs are reviewed and the introduction fundamentals and some significant topics regarding this CO₂ conversion process are discussed This book provides a comprehensive and clear picture of advanced technologies in CO₂ conversion and utilization Written in a clear and detailed manner it is suitable for students as well as industry professionals researchers and academics

Electrochemical Supercapacitors for Energy Storage and Delivery Aiping Yu, Victor Chabot, Jiujuan Zhang, 2017-12-19 Although recognized as an important component of all energy storage and conversion technologies electrochemical supercapacitors ES still face development challenges in order to reach their full potential A thorough examination of development in the technology during the past decade *Electrochemical Supercapacitors for Energy Storage and Delivery* Fundamentals and Applications provides a comprehensive introduction to the ES from technical and practical aspects and crystallization of the technology detailing the basics of ES as well as its components and characterization techniques The book illuminates the practical aspects of understanding and applying the technology within the industry and provides sufficient technical detail of newer materials being developed by experts in the field which may surface in the future The book discusses the technical challenges and the practical limitations and their associated parameters in ES technology It also covers the structure and options for device packaging and materials choices such as electrode materials electrolyte current collector and sealants based on comparison of available data Supplying an in depth understanding of the components design and characterization of electrochemical supercapacitors the book has wide ranging appeal to industry experts and those new to the field It can be used as a reference to apply to current work and a resource to foster ideas for new devices that will further the technology as it becomes a larger part of main stream energy storage

Electrochemical Energy Storage Technologies Beyond Li-ion Batteries Guanjie He, 2024-11-26 *Electrochemical Energy Storage Technologies Beyond Li ion Batteries* focuses on an overview of the current research directions to enable the commercial translation of electrochemical energy storage technologies First the principles of energy storage mechanisms and device design considerations are introduced Then organized by electrochemical energy storage technology the advances in candidate materials and their path to commercialization and industrialization are discussed Electrochemical energy storage technologies reviewed include rocking chair batteries metal air batteries redox flow batteries fuel cells and

supercapacitors Electrochemical Energy Storage Technologies Beyond Li ion Batteries is suitable for materials scientists and chemists in academia and industry It may also be of interest to physicists and energy scientists and practitioners Provides a thorough overview of candidate materials for electrochemical energy storage technologies including batteries fuel cells and supercapacitors Summarizes fundamental principles of electrochemical energy storage such as energy storage mechanisms device design considerations and computational and characterization methods Discusses future opportunities and challenges of recycling of electrochemical energy storage technologies and non lithium energy storage

Energy Storage and Conversion Devices Anurag Gaur,A. L. Sharma,Anil Arya,2021-10-28 This book presents a state of the art overview of the research and development in designing electrode and electrolyte materials for Li ion batteries and supercapacitors Further green energy production via the water splitting approach by the hydroelectric cell is also explored Features include Provides details on the latest trends in design and optimization of electrode and electrolyte materials with key focus on enhancement of energy storage and conversion device performance Focuses on existing nanostructured electrodes and polymer electrolytes for device fabrication as well as new promising research routes toward the development of new materials for improving device performance Features a dedicated chapter that explores electricity generation by dissociating water through hydroelectric cells which are a nontoxic and green source of energy production Describes challenges and offers a vision for next generation devices This book is beneficial for advanced students and professionals working in energy storage across the disciplines of physics materials science chemistry and chemical engineering It is also a valuable reference for manufacturers of electrode electrolyte materials for energy storage devices and hydroelectric cells

Electrochemical Polymer Electrolyte Membranes Jianhua Fang,Jinli Qiao,David P. Wilkinson,Jiujun Zhang,2015-04-17 Electrochemical Polymer Electrolyte Membranes covers PEMs from fundamentals to applications describing their structure properties characterization synthesis and use in electrochemical energy storage and solar energy conversion technologies Featuring chapters authored by leading experts from academia and industry this authoritative text Disc

Photochemical Water Splitting Neelu Chouhan,Ru-Shi Liu,Jiujun Zhang,2017-01-27 Cleavage of water to its constituents i e hydrogen and oxygen for production of hydrogen energy at an industrial scale is one of the holy grails of materials science That can be done by utilizing the renewable energy resource i e sunlight and photocatalytic material The sunlight and water are abundant and free of cost available at this planet But the development of a stable efficient and cost effective photocatalytic material to split water is still a great challenge To develop the effective materials for photocatalytic water splitting various type of materials with different sizes and structures from nano to giant have been explored that includes metal oxides metal chalcogenides carbides nitrides phosphides and so on Fundamental concepts and state of art materials for the water splitting are also discussed to understand the phenomenon mechanism behind the photoelectrochemical water splitting This book gives a comprehensive overview and description of the manufacturing of photocatalytic materials and devices for water splitting by

controlling the chemical composition particle size morphology orientation and aspect ratios of the materials The real technological breakthroughs in the development of the photoactive materials with considerable efficiency are well conversed to bring out the practical aspects of the technique and its commercialization Recycling of Lithium-Ion Batteries Arno Kwade, Jan Diekmann, 2017-12-12 This book addresses recycling technologies for many of the valuable and scarce materials from spent lithium ion batteries A successful transition to electric mobility will result in large volumes of these The book discusses engineering issues in the entire process chain from disassembly over mechanical conditioning to chemical treatment A framework for environmental and economic evaluation is presented and recommendations for researchers as well as for potential operators are derived Solar Energy Conversion and Storage Suresh C. Ameta, Rakshit Ameta, 2015-11-05 Solar Energy Conversion and Storage Photochemical Modes showcases the latest advances in solar cell technology while offering valuable insight into the future of solar energy conversion and storage Focusing on photochemical methods of converting and or storing light energy in the form of electrical or chemical energy the book Describes various t

Composite Electrolyte & Electrode Membranes for Electrochemical Energy Storage & Conversion Devices

Giovanni Battista Appetecchi, 2021-05-05 Electrochemical energy systems can successfully exploit beneficial characteristics of electrolyte and or electrode membranes due to their intriguing peculiarities that make them well established standard components in devices such as fuel cells electrolyzers and flow batteries Therefore more and more researchers are attracted by these challenging yet important issues regarding the performance and behavior of the final device This Special Issue of Membranes offers scientists and readers involved in these topics an appealing forum to bring and summarize the forthcoming Research Development results which stipulates that the composite electrolyte electrode membranes should be tailored for lithium batteries and fuel cells Various key aspects such as synthesis preparation of materials components investigation of the physicochemical and electrochemical properties understanding of phenomena within the materials and electrolyte electrode interface and device manufacturing and performance were presented and discussed using key research teams from internationally recognized experts in these fields *Atomically Dispersed Metallic Materials for Electrochemical Energy Technologies* Wei Yan, Xifei Li, Shuhui Sun, Xueliang Sun, Jiujun Zhang, 2022-09-13 Atomically dispersed metallic materials ADMMs are the most advanced materials used in energy conversion and storage devices to improve their performance for portable electronics electric vehicles and stationary power stations Atomically Dispersed Metallic Materials for Electrochemical Energy Technologies aims to facilitate research and development of ADMMs for applications in electrochemical energy devices It provides a comprehensive description of the science and technology of ADMMs including material selection synthesis characterization and their applications in fuel cells batteries supercapacitors and H₂O CO₂ N₂ electrolysis to encourage progress in commercialization of these clean energy technologies Offers a comprehensive introduction to various types of ADMMs their fabrication and characterization and how to improve their performance

Analyzes compares and discusses advances in different ADMMs in the application of electrochemical energy devices including commercial requirements Describes cutting edge methodologies in composite ADMM design selection and fabrication Summarizes current achievements challenges and future research directions Written by authors with strong academic and industry expertise this book will be attractive to researchers and industry professionals working in the fields of materials chemical mechanical and electrical engineering as well as nanotechnology and clean energy *Lead-Acid Battery Technologies* Joey Jung,Lei Zhang,Jiujun Zhang,2015-06-26 Lead Acid Battery Technologies Fundamentals Materials and Applications offers a systematic and state of the art overview of the materials system design and related issues for the development of lead acid rechargeable battery technologies Featuring contributions from leading scientists and engineers in industry and academia this book Describe **Electrolytes for Electrochemical Supercapacitors** Cheng Zhong,Yida Deng,Wenbin Hu,Daoming Sun,Xiaopeng Han,Jinli Qiao,Jiujun Zhang,2016-04-27 Electrolytes for Electrochemical Supercapacitors provides a state of the art overview of the research and development of novel electrolytes and electrolyte configurations and systems to increase the energy density of electrochemical supercapacitors Comprised of chapters written by leading international scientists active in supercapacitor research and manufacturing this authoritative text Describes a variety of electrochemical supercapacitor electrolytes and their properties compositions and systems Compares different electrolytes in terms of their effects on electrochemical supercapacitor performance Examines the interplay between the electrolytes active electrode materials and inactive components of the supercapacitors Discusses the design and optimization of electrolyte systems for improving electrochemical supercapacitor performance Explores the challenges electrochemical supercapacitors currently face offering unique insight into next generation supercapacitor applications Thus Electrolytes for Electrochemical Supercapacitors is a valuable resource for the research and development activities of academic researchers graduate undergraduate students industry professionals and manufacturers of electrode electrolyte systems and electrochemical energy devices such as batteries as well as for end users of the technology **Proton Exchange Membrane Fuel Cells** Zhigang Qi,2013-12-16 Written by an industry leading scientist Proton Exchange Membrane Fuel Cells explains the theoretical foundations of PEM fuel cells in relation to practical design and operation to not only help beginners grasp the essentials but also guide industry professionals in tackling technical challenges Useful to scientists researchers students academics and practicing engineers the book covers the fundamentals materials components modules system architecture applications and current developmental status offers real world examples and provides insight into advancing this sustainable clean technology Hydrothermal Reduction of Carbon Dioxide to Low-Carbon Fuels Fangming Jin,2017-12-06 The book covers advances in hydrothermal reduction of CO₂ into low carbon fuels It offers perspectives from chemical engineering environmental chemicals organic chemistry inorganic chemistry physical chemistry geology and materials science It addresses fundamentals and applications of hydrothermal chemical processes associated materials and

technologies It describes reduction with biomass and dissociation of water by solar energy driven two step process
Challenges and strategies are discussed to facilitate research and development

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