

molecules

IMPACT
FACTOR
4.6

Indexed in:
PubMed

CITESCORE
8.6

Special Issue Reprint

Novel Electrode Materials for Rechargeable Batteries

www.mdpi.com/books/reprint/11649

Edited by

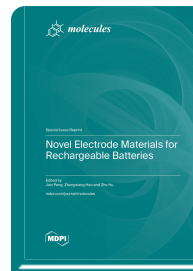
Jian Peng

Zhangxiang Hao

Zhe Hu

ISBN 978-3-7258-5269-7 (Hardback)

ISBN 978-3-7258-5270-3 (PDF)



This Special Issue of *Molecules*, “Novel Electrode Materials for Rechargeable Batteries”, features ten published papers that reflect the diversity and dynamism of current research in energy storage and conversion. Several studies focus on lithium- and sodium-ion batteries, investigating Ni-rich cathode materials, hard carbon anodes, F-doped layered transition metal oxides, and stable anode-free configurations. Other contributions explore magnesium–sulfur batteries and highlight recent advances in electrolyte design. Beyond batteries, research on photocatalysts, thermoelectric materials, and hydrogen production technologies provides complementary insights into sustainable energy solutions. Together, these contributions demonstrate significant progress in material design, electrochemical performance optimization, and catalytic strategies, offering crucial perspectives for the future of rechargeable batteries and green energy technologies.



Order Your Print Copy

You can order print copies at

www.mdpi.com/books/reprint/11649

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



Open Access

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



Author Focus

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



High Quality & Rapid Publication

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



High Visibility

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



Print on Demand and Multiple Formats

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.