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Special Issue Reprint

Novel Electrode Materials for Rechargeable Batteries, 2nd Edition

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This Special Issue Reprint of *Molecules*, “Novel Electrode Materials for Rechargeable Batteries, 2nd Edition”, highlights recent progress in materials and design strategies for advanced electrochemical energy storage and conversion. The collected articles showcase innovations in electrode engineering—from morphology-optimized NiMo alloys for efficient hydrogen evolution to flexible anodes, sulfur encapsulation strategies, and high-performance zinc-ion and lithium-ion battery materials. The Reprint also features studies on electrolyte and additive optimization, three-dimensional current collectors, and comprehensive reviews covering polyanionic cathodes and metallic lithium anode protection.

Together, these contributions present a concise yet insightful overview of emerging concepts and key challenges in modern electrochemical materials research, offering valuable guidance for the development of next-generation sustainable energy storage technologies.

