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Nota di contenuto

Atomically precise electrocatalysts; Single/Dual/Multi-atom catalysts -- Synthesis and characterization of atomically precise electrocatalysts -- Electrocatalytic properties of atomically precise electrocatalysts -- Electrochemical Energy Conversion and Storage Strategies -- Oxygen Reduction Reaction; Fuel Cells -- Oxygen Evolution Reaction; Water Electrolyzer -- Hydrogen Evolution Reaction; Water Electrolyzer -- Activity descriptors for Atomically Precise OR Electrocatalysts -- Single-atom catalysts for Oxygen Reduction Reaction -- Dual-atom catalysts for Oxygen Reduction Reaction -- Multi-atom catalysts for Oxygen Reduction Reaction -- Activity descriptors for Atomically Precise OER Electrocatalysts -- Single-atom catalysts for Oxygen Evolution Reaction -- Dual-atom catalysts for Oxygen Evolution Reaction -- Multi-atom catalysts for Oxygen Evolution Reaction -- Activity descriptors for Atomically Precise HER - Electrocatalysts.-Single-atom catalysts for Hydrogen Evolution Reaction -- Dual-atom catalysts for Hydrogen Evolution Reaction -- Multi-atom catalysts for Hydrogen Evolution Reaction -- Single-atom catalysts for metal-air batteries -- Dual-atom catalysts for metal-air batteries -- Multi-atom catalysts for metal-air batteries -- Single-atom catalysts for metal-sulfur batteries -- Dual-atom catalysts for metal-sulfur batteries -- Multi-atom catalysts for metal-sulfur batteries. .

Sommario/riassunto

This book offers a comprehensive overview of atomically precise electrocatalysts, including single-atom, dual-atom, and multi-atom catalysts, which are considered to be superior electrode materials for fuel cells and water electrolyzers. By presenting a systematic examination of these materials in ascending order of metal atom number, the book provides a deep understanding of their synthesis processes, energy applications, and potential for improving their performance. Unlike any contemporary book on the topic, this book explores the reaction mechanisms and structure-performance relationships in catalytic processes at atomic level. Essentially, by driving the development of fuel cells and water electrocatalyzers, this book helps meet the world's growing energy demands. With its cutting-edge insights, this book is an indispensable resource for researchers, engineers, and students working in the field of renewable energy.
