1. Record Nr. UNINA9910796505803321

Autore	Han Shumin
Titolo	Hydrogen storage alloys : with RE-Mg-Ni based negative electrodes / / Shumin Han, Yuan Li, Baozhong Liu
Pubbl/distr/stampa	Berlin, [Germany] ; ; Boston, [Massachusetts] : , : De Gruyter, , 2017 ©2017
ISBN	3-11-049838-3 3-11-050148-1
Descrizione fisica	1 online resource (244 pages) : illustrations
Disciplina	621.312423
Soggetti	Nickel-hydrogen batteries Nickel-metal hydride batteries
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Frontmatter -- Preface -- Contents -- 1 Introduction -- 2 Preparation, Electrochemical Properties and Gaseous Hydrogen Storage Characteristics of the Single-Phase Superlattice RE-Mg-Ni-Based Hydrogen Storage Alloys -- 3 Effect of Multiphase Structures on Electrochemical Properties of the Superlattice RE-Mg-Ni-Based Hydrogen Storage Alloys -- 4 Effect of Element Composition on Microstructure and Electrochemical Characteristics of RE-Mg-Ni-Based Hydrogen Storage Alloys -- 5 Effect of Surface Treatment on Electrochemical Characteristics of RE-Mg-Ni-Based Hydrogen Storage Alloys -- 6 Outlook and Challenges of RE-Mg-Ni-Based Alloys as Negative Electrode Materials for Ni/MH Batteries -- Index
Sommario/riassunto	The book presents current research progress on hydrogen storage alloys, with a special focus on their applications in batteries. Background, formation mechanisms, electrochemical characteristics, and effects of elemental substitution are covered. Provides an up-to-date overview of the theme for experienced researchers, while including enough fundamentals to serve as a handy, practical introduction for newcomers to the field.