1. Record Nr. UNINA9910299606603321

Titolo	Electric Vehicle Batteries: Moving from Research towards Innovation : Reports of the PPP European Green Vehicles Initiative / / edited by Emma Briec, Beate Müller
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-12706-3
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (114 p.)
Collana	Lecture Notes in Mobility, , 2196-5552
Disciplina	629.2502
Soggetti	Transportation engineering Traffic engineering Energy storage Electrochemistry Sustainability Technological innovations Transportation Technology and Traffic Engineering Mechanical and Thermal Energy Storage Innovation and Technology Management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	HELIOS – High Energy Lithium Ion Storage Solutions: Comparative Assessment of 4 Chemistries of Cathode for EV and PHEV Applications -- Development of Novel Solid Materials for High Power Li Polymer Batteries (SOMABAT). Recyclability of Components -- AUTOSUPERCAP: Development of High Energy and High Power Density Supercapacitor Cells -- GREENLION Project: Advanced Manufacturing Processes for Low Cost Greener Li-Ion Batteries -- Lightweight and Integrated Plastic Solutions for Power Battery Racks in Electric Vehicles -- EASYBAT – Innovative Removal Battery Interfaces for Electric Vehicles -- SuperLIB: Smart Battery Management of a Dual Cell Architecture for Electric Vehicles -- SMART LIC: Smart and Compact Battery Management System Module for Integration into Lithium-Ion Cell for Fully Electric Vehicles.

Sommario/riassunto

This edited volume presents research results of the PPP European Green Vehicle Initiative (EGVI), focusing on electric vehicle batteries. Electrification is one road towards sustainable road transportation, and battery technology is one of the key enabling technologies. However, at the same time, battery technology is one of the main obstacles for a broad commercial launch of electric vehicles. This book includes research contributions which try to bridge the gap between research and innovation in the field of battery technology for electric vehicles. The target audience primarily comprises researchers and experts in the field.