1. Record Nr. UNINA9910350281303321

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Titolo	Graphene Network Scaffolded Flexible Electrodes—From Lithium to Sodium Ion Batteries [[electronic resource] /] / by Dongliang Chao
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2019
ISBN	981-13-3080-8
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (130 pages)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190-5053
Disciplina	621.312424
Soggetti	Chemistry Nanotechnology Energy Storage Electrochemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	General Introduction -- Vanadium Pentoxide for Li-Ion Storage -- Vanadium Dioxide for Li- and Na-Ion Storage -- Na3(VO)2(PO4)2F Array for Cathode of Na-Ion Battery -- SnS Array for Anode of Na-Ion Battery -- Future Work.
Sommario/riassunto	Research on deformable and wearable electronics has promoted an increasing demand for next-generation power sources with high energy/power density that are low cost, lightweight, thin and flexible. One key challenge in flexible electrochemical energy storage devices is the development of reliable electrodes using open-framework materials with robust structures and high performance. Based on an exploration of 3D porous graphene as a flexible substrate, this book constructs free-standing, binder-free, 3D array electrodes for use in batteries, and demonstrates the reasons for the research transformation from Li to Na batteries. It incorporates the first principles of computational investigation and in situ XRD, Raman observations to systematically reveal the working mechanism of the electrodes and structure evolution during ion insertion/extraction. These encouraging results and proposed mechanisms may accelerate further development of high rate batteries using smart nanoengineering of the electrode materials, which make “Na ion battery could be better than Li ion battery”

possible.

2. Record Nr. UNISALENTO991002364029707536

Titolo	Les cités de l'Italie tardo-antique, 4.-6. siècle : institutions, économie, société, culture et religion / études réunies par Massimiliano Ghilardi, Christophe J. Goddard et Pierfrancesco Porena
Pubbl/distr/stampa	[Roma] : Ecole française de Rome, 2006
ISBN	2728307709
Descrizione fisica	390 p. : ill., mappe ; 28 cm
Collana	Collection de l'Ecole française de Rome ; 369
Altri autori (Persone)	Ghilardi, Massimilianoauthor Goddard, Christophe J. Porena, Pierfrancesco
Altri autori (Enti)	Ecole française de Rome
Soggetti	Cittadini e città - Italia - Storia - Congressi Urbanizzazione - Italia - Storia - Congressi
Lingua di pubblicazione	Francese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Atti del convegno organizzato dall'Ecole française de Rome, Roma 11-13 marzo 2004
Nota di bibliografia	Include riferimenti bibliografici e indici