

1. Record Nr.	UNINA9910557548103321
Autore	Lamedica Regina
Titolo	Modeling and Simulation of Electricity Systems for Transport and Energy Storage
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2021
Descrizione fisica	1 online resource (122 p.)
Soggetti	History of engineering and technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This book comprises five peer-reviewed articles covering original research articles on the modeling and simulation of electricity systems for transport and energy storage. The topics include: 1 - Optimal siting and sizing methodology to design an energy storage system (ESS) for railway lines; 2 - Technical-economic comparison between a 3 kV DC railway and the use of trains with on-board storage systems; 3 - How to improve electrical feeding substations, by changing transformer technology and by installing dedicated high-power-oriented storage systems; 4 - Algorithm applied to a vehicle-to-grid (V2G) technology. 5 - Thermal investigation and optimization of an air-cooled lithium-ion battery pack.

2. Record Nr.	UNINA9910557387603321
Autore	Risio Marcello Di
Titolo	Marine Sediments : Processes, Transport and Environmental Aspects
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2020
Descrizione fisica	1 online resource (122 p.)
Soggetti	Research & information: general Kalgoorlie-Boulder (SE WA Goldfields SH51-09)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	In recent years, increasing attention has been paid to water quality and environmental aspects related to sediment transport, driven by both ambient forcing and human activities. Estuarine, coastal, and harbor areas often undergo operations to nourish beaches, to maintain navigation channels, and to remove contaminated sediment. Hence, much research is needed related to the sediment processes, transport, and related environmental aspects of marine sediments. The aim of this Special Issue is to exhibit novel research results in this field. Particular attention is paid to water quality and environmental aspects relating to sediment transport driven by anthropogenic activities and natural phenomena: spillover due to tidal processes, metals mobility, coastal modifications driven by extreme events and mean wave climate, sediments re-suspension and dispersion related to marine sediment handling.