

1. Record Nr.	UNINA9910891917503321
Titolo	CAS Sofia working paper series
Pubbl/distr/stampa	Sofia, Bulgaria : , : Centre for Advanced Study Sofia (CAS)
Descrizione fisica	1 online resource
Soggetti	Publications périodiques Civilization History Periodicals. Europe, Eastern Civilization Periodicals Europe, Eastern History Periodicals Bulgarie Eastern Europe Europe de l'Est Civilisation Périodiques Europe de l'Est Histoire Périodiques
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico

2. Record Nr.	UNINA9911018763103321
Autore	Zou Jianxin
Titolo	Hydrogen Storage and Transportation // by Jianxin Zou
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	981-9628-75-X
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (XVII, 247 p. 107 illus., 83 illus. in color.)
Disciplina	620.11 621.312429
Soggetti	Fuel cells Materials Hydrogen as fuel Catalysis Force and energy Automotive engineering Thermodynamics Heat engineering Heat - Transmission Mass transfer Physics Fuel Cells Hydrogen Energy Materials for Energy and Catalysis Automotive Engineering Engineering Thermodynamics, Heat and Mass Transfer Classical and Continuum Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Overview of Hydrogen Storage and Transportation -- High-Pressure Gaseous Hydrogen Storage and Transportation -- Low-Temperature Liquid Hydrogen Storage and Transportation -- Hydrogen Storage and Transportation Technologies Using Hydrogen-Rich Liquid Compounds -- Material-Based Solid Hydrogen Storage and Transportation.

This book provides a comprehensive review of the latest hydrogen storage and transportation technologies. Starting with fundamental principles and research frontiers, the book introduces the state-of-the-art technologies in the storage and transportation using high-pressure compressed hydrogen, cryogenics and liquid hydrogen, hydrogen rich liquid compounds and solid-state hydrogen storage materials. Both qualitative and quantitative analyses are presented for each approach. The book also aims to provide hands-on tutorial for professionals and students to work in the fields of hydrogen energy and hydrogen related industries. This book is a valuable primer for professionals in the energy, materials science, chemistry and automotive industry. It is especially useful for those who are engaged in hydrogen production, storage, transportation and utilization. Covering low carbon technologies and carbon footprint as well, this book can also serve as a reference for teachers and students majoring in clean energy and functional materials in colleges and universities. The basis of English translation of this book, originally in Chinese, was facilitated by artificial intelligence. The content was later revised by the author for accuracy. Additional questions and answers via app: Download the Springer Nature Flashcards app free of charge and use exclusive additional material to test your knowledge.

---