1. Record Nr. UNINA9910823486403321

Titolo	Fuel cells science and engineering : materials, processes, systems and technology / / edited by Detlef Stolten and Bernd Emonts
Pubbl/distr/stampa	Weinheim, Germany, : Wiley-VCH, 2012
ISBN	9786613642691 9783527650262 3527650261 9781280665769 1280665769 9783527650279 352765027X 9783527650248 3527650245
Edizione	[1st ed.]
Descrizione fisica	1 online resource (1270 p.)
Collana	Fuel cells science and engineering : materials, processes, systems and technology ; ; v. 1
Altri autori (Persone)	StoltenDetlef EmontsBernd
Disciplina	621.312429
Soggetti	Fuel cells
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 and index.
Nota di contenuto	pt. 1. Technology -- pt. 2. Materials and production processes -- pt. 3. Analytics and diagnostics -- pt. 4. Quality assurance -- pt. 5. Modeling and simulation -- pt. 6. Balance of plant design and components -- pt. 7. Systems verification and market introduction.
Sommario/riassunto	Fuel cells are expected to play a major role in the future power supply that will transform to renewable, decentralized and fluctuating primary energies. At the same time the share of electric power will continually increase at the expense of thermal and mechanical energy not just in transportation, but also in households. Hydrogen as a perfect fuel for fuel cells and an outstanding and efficient means of bulk storage for renewable energy will spearhead this development together with fuel cells. Moreover, small fuel cells hold great potential for portable

devices such as gadgets and medical ap