

1. Record Nr.	UNINA9910741161403321
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Titolo	Flow Cells for Electrochemical Energy Systems : Fundamentals and Applications // edited by Liang An, Rong Chen, Yinshi Li
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	9783031372711 3031372719
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (259 pages)
Collana	Green Energy and Technology, , 1865-3537
Altri autori (Persone)	ChenRong LiYinshi
Disciplina	620.11 621.312429
Soggetti	Fuel cells Materials Electric power production Electric batteries Sustainability Fuel Cells Electrical Power Engineering Batteries
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction to flow cells -- Flow cell designs -- Mass and heat transfer -- Proton exchange membrane fuel cells -- Anion exchange membrane fuel cells -- Direct liquid fuel cells -- Microbial fuel cells -- Organic flow batteries -- Redox flow batteries -- Semi-solid flow batteries -- Microfluidic flow cells -- Electrolysis cells for CO2 reduction -- Modeling and simulations of fuel cells -- Modeling and simulations of flow batteries -- Modeling and simulations of microfluidic flow cells -- Challenges and perspectives in flow cells.
Sommario/riassunto	This book is a state-of-the-art review on recent advances in flow cells for electrochemical energy systems. The book includes an introduction to flow cells, proton exchange membrane fuel cells, photocatalytic fuel

cells, organic flow batteries, redox flow batteries, microfluidic flow cells, as well as electrolysis cells for CO<sub>2</sub> and nitrogen reduction. The book provides an essential reference for professors, researchers, and policymakers globally in academia, industry, and government.

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