

1. Record Nr.	UNINA9910554239903321
Autore	Perry Samuel
Titolo	Electrochemical carbon dioxide reduction / / Samuel Perry
Pubbl/distr/stampa	Boston, Massachusetts : , : De Gruyter, , [2021] ©2021
ISBN	1-5015-1544-6 1-5015-2223-X
Descrizione fisica	1 online resource (158 pages)
Collana	De Gruyter STEM
Disciplina	541.37
Soggetti	Carbon dioxide mitigation Electrochemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Frontmatter -- Contents -- 1 Introduction to electrochemical carbon dioxide reduction -- 2 Reaction mechanisms -- 3 Catalyst design -- 4 Electrolytes -- 5 Reactor engineering -- 6 Future perspectives -- References -- Index
Sommario/riassunto	Carbon dioxide reduction is a key research challenge in the global mission to reduce CO2 emissions. The process presents a unique challenge in that it can produce several different products, presenting the user with the challenge of selectively and efficiently producing on single useful material. This book presents an introduction to the field, covering the chemical reactions involved, the range of innovative materials and reactor designs most recently developed, and the future targets that need to be met.