

1. Record Nr.	UNINA9910139627303321
Titolo	Synthetic diamond films [[electronic resource]] : preparation, electrochemistry, characterization, and applications // edited by Enric Brillas, Carlos Alberto Martinez-Huitle
Pubbl/distr/stampa	Hoboken, N.J., : Wiley, c2011
ISBN	1-283-17591-6 9786613175915 1-118-06235-3 1-118-06236-1 1-118-06234-5
Descrizione fisica	1 online resource (678 p.)
Collana	The Wiley series on electrocatalysis and electrochemistry
Altri autori (Persone)	BrillasEnric Martinez-HuitleCarlos Alberto
Disciplina	666.88 666/.88
Soggetti	Diamonds - Electric properties Diamond thin films
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. Synthesis of diamond films -- pt. 2. Electrochemistry of diamond films -- pt. 3. Electroanalytical applications -- pt. 4. Industrial applications -- pt. 5. Bioelectrochemical applications.
Sommario/riassunto	The book gives an overview on the current development status of synthetic diamond films and their applications. Its initial part is devoted to discuss the different types of conductive diamond electrodes that have been synthesized, their preparation methods, and their chemical properties and characterization. The electrochemical properties of diamond films in different scientific areas, with special attention in electroanalysis, are further described. Different strategies to modify these electrodes are also discussed as important technologies with ability to change their electrochemical charac