

1. Record Nr.	UNINA9910298630903321
Autore	Gründler Peter
Titolo	In-situ Thermoelectrochemistry : Working with Heated Electrodes // by Peter Gründler
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2015
ISBN	3-662-45818-7
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (153 p.)
Collana	Monographs in Electrochemistry, , 1865-1844
Disciplina	54 541.37 620.11
Soggetti	Electrochemistry Materials - Analysis Characterization and Analytical Technique
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	Introduction -- Fundamentals -- History of modern thermoelectrochemistry -- Modern thermoelectrochemistry -- Dynamic processes in cells with heated electrode-solution interfaces -- Working with electrically heated electrodes.
Sommario/riassunto	This book represents the first rigorous treatment of thermoelectrochemistry, providing an overview that will stimulate electrochemists to develop and apply modern thermoelectrochemical methods. While classical static approaches are also covered, the emphasis lies on methods that make it possible to independently vary temperature such as in-situ heating of electrodes by means of electric current, microwaves or lasers. For the first time, "hot-wire electrochemistry" is examined in detail. The theoretical background presented addresses all aspects of temperature impacts in the context of electrochemistry. .