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	Titolo	I naturalisti e la cultura scientifica siciliana dell'800 : atti del convegno, Palermo, 5-7 Dicembre 1984 / a cura di G. Liotta
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Nota di contenuto	Part 1. EPOC: Story and Fundamentals -- 1. Presentation, Story and Mechanistic Understanding of Electrochemical Promotion of Catalysis (Constantinos G. Vayenas and Philippe Vernoux) -- 2. Electrochemical Promotion of Catalysis: From Discovery to Fundamentals to Applications (Symeon Bebelis) -- Part 2. EPOC in Nano-Dispersed Catalysts -- 3. The Quest of Electropromoted Nano-dispersed Catalysts (Arash Fella Jahromi, Christopher Panaritis and Elena A. Baranova) -- 4. The Effective-Double-Layer as an Efficient Tool for the Design of Sinter-Resistant Catalysts (Ioannis V. Yentekakis) -- Part 3. EPOC to Face Environmental Challenges -- 5. EPOC with Alkaline Conductors - Implementations in Emissions Control Catalysis (Ioannis V. Yentekakis, Philippe Vernoux and Angel Caravaca) -- 6. Electrochemical Promotion of Catalysis for CO₂ Valorisation (Christos Chatziliadis, Eftychia Martino, Dimitrios Zagoraios, Georgios Kyriakou and Alexandros Katsaounis) -- Part 4. EPOC to Accelerate the Energy Transition -- 7. Recent Studies of Electrochemical Promotion for H₂ Production from Ethanol (Estela Ruiz-López, Fernando Dorado and Antonio de Lucas-Consuegra) -- 8. Electrochemical Promotion and Related Phenomena during Ammonia Synthesis (Anastasios Vourros, John Garagounis and Michael Stoukides) -- Part 5. Prospects Towards the Application -- 9. Challenges and Prospects for Applications of the Electrochemical Promotion of Catalysis (Angel Caravaca, Jesus González-Cobos, Vasilis Kyriakou and Philippe Vernoux).
Sommario/riassunto	This book provides a critical review of research in the field of Electrochemical Promotion of Catalysis (EPOC). It presents recent developments during the past decade that have led to a better understanding of the field and towards applications of the EPOC concept. The chapters focus on the implementation of EPOC for developing sinter-resistant catalysts, catalysts for hydrogen production, ammonia production and carbon dioxide valorization. It also highlights the developments towards electropromoted dispersed catalysts and for Self-Sustained Electrochemical Promotion which are currently expanding. This authoritative review of EPOC is useful for various scientific communities working at the interface of heterogeneous catalysis, solid state electrochemistry and materials science. It is of particular interest to groups whose research focuses on developments towards a better and more sustainable future.