

1. Record Nr.	UNINA9910457367703321
Titolo	Proton-coupled electron transfer [[electronic resource]] : a carrefour of chemical reactivity traditions / / edited by Sebastiao Formosinho ; Monica Barroso
Pubbl/distr/stampa	Cambridge, : RSC Pub., 2012
ISBN	1-84973-316-3
Descrizione fisica	1 online resource (169 p.)
Collana	RSC catalysis series, , 1757-6725 ; ; no. 8
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Disciplina	539.7
Soggetti	Electron transport Protons Electronic books.
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	i-iv; v-vi; vii-x; 1-31; 32-56; 57-88; 89-125; 126-151; 152-158
Sommario/riassunto	Proton-coupled electron transfer (PCET) is emerging as an important new class of reactions and, over the past decade, great strides have been made in our understanding of them. PCET reactions are studied in many branches of chemistry and are omnipresent in biological processes. This book covers recent developments from both the theoretical and experimental points of view. It concentrates on the importance of PCET in biological systems and for bioenergetic conversion. The oxidation of water in Photosystem II to produce oxygen, and the reduction of protons to hydrogen by hydrogenase, for energy