

1. Record Nr.	UNINA9910819999103321
Titolo	Corrosion in power industry : special topic volume with invited peer reviewed papers only // edited by Maros Halama and Jan Stoullil
Pubbl/distr/stampa	[Zurich, Switzerland] : , : TTP, , 2015 ©2015
ISBN	3-03826-746-5
Descrizione fisica	1 online resource (92 p.)
Collana	Materials Science Forum, , 1662-9752 ; ; Volume 811
Disciplina	620.162
Soggetti	Alloys - Corrosion Corrosion and anti-corrosives Nanotechnology
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 at the end of each chapters and indexes.
Nota di contenuto	Corrosion in Power Industry; Preface; Table of Contents; I. Degradation of Solar Cells; Non-Destructive Technique for Evaluation of Degradation on Solar Cells; Effect of Humidity on Selective Surface of Solar Absorber Plates; II. Corrosion of Nanoparticles; A Lifetime of Metallic Nanoparticles in Heat Exchange Liquids; III. Failure Analysis; Corrosion Protection of Infrastructure of Power Industry; Corrosion Degradation of Steel Pipes in Indirect Cooling Circuit of Gas Cleaning; Atmosphere Aggressivity State Mapping in Slovak Republic for Corrosion of Construction Materials IV. Surface Treatment Influence of Anodic Oxidation on the Polarization Resistance of Ti6Al4V Alloy after Shot Peening; Quality Evaluation of HVOF Coatings on the Basis of WC-Co in Tribocorrosive Conditions; Effect of Surface Treatment by DCPD Coating on Corrosion Resistance of Magnesium Alloy Elektron 21; V. Material Properties; Influence of Temperature on the Electrochemical Characteristics of Ti-6Al-4V; The Corrosion Properties of EN AW 7075 Aluminium Alloy in Power Industry; VI. Safety Issue; BLEVE - Cases, Causes, Consequences and Prevention; Keywords Index; Authors Index
Sommario/riassunto	Nowadays trend in application of eco policy, more strict legislative and globalisation in economy together with research and development in

emerging technologies such as nanotechnology bringing also new corrosion challenges into the power industry sector. New alloys and composite materials, eco-friendly energy systems, effective monitoring techniques and sophisticated prediction methods contribute on safer and more reliable operation of energy units. All up-mentioned circumstances required interdisciplinary approach to build perspective solutions with aim to minimize degradation process of com
