

| | |
|-------------------------|---|
| 1. Record Nr. | UNINA9910787103503321 |
| 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
