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Nota di contenuto	Corrosion and Surface Engineering; Preface and Organizing Committee; Table of Contents; Chapter 1: Corrosion and Surface Engineering, Corrosion Protection; Novel Concepts on the Growth of Corrosion Fatigue Small and Short Cracks; Corrosion Fatigue Crack Propagation Rates for Steam Turbine Blade 13% Cr Steels; Corrosion Behaviour of Amorphous and Nanocrystalline Alloys; Influence of Plastic Deformation on the Corrosion Behaviour of As-Cast AlMg2 and AlCu4Mg1 Aluminium Alloys in NaCl Solution Influence of the Crystallographic Orientation of Grains and Plastic Deformation on the Electrochemical Behavior of Pure Aluminum in Sodium Chloride Solution Structure and Corrosion Behavior of Mg-Cu-Y-(Zn,Ni) Bulk Metallic Glasses; The Influence of Deformation the Corrosion Resistance of Titanium Grade2; Influence of Ageing on the Corrosion Resistance of the ZnAl22Cu3 and ZnAl40Cu3 Alloys; Resistance to Electrochemical Corrosion of Extruded Magnesium Alloy AZ31; The Corrosion Processes Effect on Surface Roughness of Bonded Magnetic Material Based on Nd-(Fe,Co)-B Powder Type The Influence of Reinforcement Purity on Corrosion Resistance of AM50/SiC Composites The Properties of Refined Glasses with Aluminum Hydroxide Nano-Molecules; Corrosion Resistance of Sinters CNT-Cu/Cu; A Study on the Inhibition of J55 and P110SS Steel in 3.5% NaCl

Solution Saturated with CO₂ by Seed Extract of *Momordica charantia* (Karela); Inhibition Effect of Guar Gum on the Corrosion Behaviour of Carbon Steel (K-55) in Fracturing Fluid; Investigation of Some Mannich Bases Corrosion Inhibitors for Carbon Steel; The Effect of Chloride Ions on the Passive Films of Titanium in Sulfuric Acids
Effect of Cadmium Addition on the Galvanic Corrosion of AM60 Magnesium Alloy in 0.1 M Sodium Chloride Solution
Studies on the Corrosion Properties of High-Mn Austenitic Steels; The Electrochemical and Immersion Corrosion of Casting Magnesium Alloys Containing Rare Earth Elements; Corrosion Behavior of MRI153M Magnesium Alloy in 3% NaCl Solution; Corrosion Behaviour of Magnesium Lithium Alloys in NaCl Solution; Corrosion of WE43 and AE44 Magnesium Alloys in Sodium Sulfate Solution; Electrochemical Corrosion Behaviour of Stainless Steels AISI 304 and 316L in Caribbean Sea Water
Adsorption Kinetics of Benzothiazole and 2-Mercaptobenzothiazole on Microcrystalline Gold and Silver Surfaces
Corrosion Resistance in Saline Environment of Colored Based Alumina Spectrally Selective Surfaces; The Effects of Inappropriate Corrosion Protection; The Effect of Ti and REE Addition on the Corrosion Resistance of the AlZn12Mg3.5Cu2.5 Alloy in "Acid Rain" Environment; Corrosion Resistance of AA2024-T3 Coated with Graphene/Sol-Gel Films; Corrosion Behavior of Hybrid Sol-Gel Films Reinforced with Electrospun Nanofibers
Epoxy-Polyelectrolyte Composites as a Basis of Intellectual Coating for Protection from Underfilm Corrosion on Cathodically Polarizable Structures

Sommario/riassunto

Collection of selected, peer reviewed papers from the International Scientific Conference Corrosion 2014, November 18-21, 2014, Gliwice, Poland. The 136 papers are grouped as follows: Chapter 1: Corrosion and Surface Engineering, Corrosion Protection; Chapter 2: Concrete Corrosion; Chapter 3: Corrosion and Surface Engineering in Industry; Chapter 4: Atmospheric Corrosion, Tribocorrosion, Erosion, Hydrogen Degradation and Diffusion; Chapter 5: Microbiological Corrosion; Chapter 6: High-Temperature Corrosion and Surface Strength, Thermal Coating; Chapter 7: Corrosion of Biomaterials; Chapter 8: T
