
Corrosion Posters (General) – 218th ECS Meeting

Editors:

D. Hansen

University of Dayton
Dayton, Ohio, USA

A. Alfantazi

University of British Columbia
Vancouver, British Columbia, Canada

N. Missert

Sandia National Laboratories
Albuquerque, New Mexico, USA

Sponsoring Division:



Published by

The Electrochemical Society

65 South Main Street, Building D
Pennington, NJ 08534-2839, USA

tel 609 737 1902

fax 609 737 2743

www.electrochem.org

ecstransactions™

Vol. 33, No. 30

Copyright 2011 by The Electrochemical Society.
All rights reserved.

This book has been registered with Copyright Clearance Center.
For further information, please contact the Copyright Clearance Center,
Salem, Massachusetts.

Published by:

The Electrochemical Society
65 South Main Street
Pennington, New Jersey 08534-2839, USA

Telephone 609.737.1902
Fax 609.737.2743
e-mail: ecs@electrochem.org
Web: www.electrochem.org

ISSN 1938-6737 (online)
ISSN 1938-5862 (print)
ISSN 2151-2051 (cd-rom)

ISBN 978-1-56677-888-6 (PDF)
ISBN 978-1-60768-240-0 (Softcover)

Printed in the United States of America.

Table of Contents

<i>Preface</i>	<i>iii</i>
Electrochemical Effect of Cationic Gemini Surfactant and Halide Salts on Corrosion Inhibition of Low Carbon Steel in Acid Medium <i>D. Asefi, M. Arami, and N. Mahmoodi</i>	1
Formation and Oxidation Behavior of Diffusion-Barrier-Coating System on γ -TiAl <i>Z. Żurek, A. Stawiarski, A. Jaroń, and A. Gil</i>	17
Effect of NO_2^- in the Corrosion Behavior of Cerium Based Conversion Coatings on AA6061-T6 <i>S. Kiyota, B. Valdez, R. Zlatev, M. Stoytcheva, and C. Iñiguez</i>	23
Microstructure, Corrosion Resistance and Adhesive Strength of Calcium Phosphate Coatings Formed on Pure Magnesium by a Simple Immersion Method <i>M. Tomozawa and S. Hiromoto</i>	31
Self-Lubricative Coatings Deposited by Microplasma Oxidation on 7075-T6 Aluminum Alloys in the Solution of Aluminate/Molybdenum Disulfide <i>C. Hua, J. Lee, C. Lu, Y. Lin, and M. Yang</i>	39
Evaluation of Credibility of Plasma Spray Biocompatible HAp Coatings by Electrochemical Impedance Technique <i>S. Take, M. Kasahara, Y. Ito, M. Kawaguti, M. Ohshima, and Y. Itoi</i>	49
Anodic Dissolution of Refractory Metals in Choline Chloride Based Binary Mixtures <i>Q. Abbas and L. Binder</i>	57
The Synthesis of New Organic Polymers with Anticorrosive and Antiscaling Action for Protection of Industrial Cooling Water Systems <i>F. Branzoi, I. Branzoi, and A. Stanca</i>	69
Electrochemical Deposition of γ -Phase Zinc-Nickel Alloys from Alkaline Solution <i>H. Conrad, J. Corbett, and T. D. Golden</i>	85

High Temperature Oxidation of TiAl Alloys Treated by Fluorine Resin <i>A. Gil, Z. Żurek, A. Stawiarski, and J. Dąbek</i>	97
Corrosion Inhibitor for Use in Giant Magnetoresistance (GMR) Biosensors <i>Z. Liu, Y. Wang, J. Litvinov, P. Chinwangso, R. Willson, and D. Litvinov</i>	103
Author Index	113