



CORROSION SCIENCE

The Journal on Environmental Degradation of Materials and its Control

Editor-in-Chief: G. T. BURSTEIN, University of Cambridge, U.K.

An Official Journal of the Institute of Corrosion

CONTENTS

- J. L. MARTINS, T. C. REIS,
M. BAZZAOUTI, E. A. BAZZAOUTI
and L. MARTINS
E. M. LEHOCKY,
A. M. BRENNENSTUHL and
I. THOMPSON
Y. F. CHENG and F. R. STEWARD
- A. CHEFOUNI, K. MEDJAHED,
K. E. SID-LAKHIDAR, B. HAMMOUL,
M. BENKADDOUR and A. MANSRI
E. A. ABD EL MEGUID and
A. A. ABD EL LATIF
Y. ZHU, K. MIMURA and M. ISSHIKI
- H.-L. WANG, R.-B. LIU and J. XIN
- J. A. GONZALEZ, J. M. MIRANDA
and S. FELIU
E. KRASICKA-CYDZIK
- 2361 Polypyrrole coatings as a treatment for zinc-coated steel surfaces against corrosion
- 2383 On the relationship between grain boundary connectivity, coincident site lattice boundaries, and intergranular stress corrosion cracking
- 2405 Corrosion of carbon steels in high-temperature water studied by electrochemical techniques
- 2421 Poly(4-vinylpyridine-poly(3-oxide-ethylene) (tosyle) as an inhibitor for iron in sulphuric acid at 80 °C
- 2431 Electrochemical and SEM study on Type 254 SMO stainless steel in chloride solutions
- 2445 A study of the initial oxidation of copper in 0.1 MPa oxygen and the effect of purity by metallographic methods
- 2455 Inhibiting effects of some mercapto-triazole derivatives on the corrosion of mild steel in 1.0 M HCl medium
- 2467 Considerations on reproducibility of potential and corrosion rate measurements in reinforced concrete
- 2487 Gel-like layer development during formation of thin anodic films on titanium in phosphoric acid solutions

Contents continued on outside back cover

Continued from front cover

M. A. MIGAED, R. O. ALY and
A. M. AL-SARAGH
A. A. EL-MOKHEIM

K. ARAMAKI and T. SHIMURA

K. SHIMIZU, H. FUJITANI,
H. HABAZAKI, P. SKELDON and
G. E. THOMPSON
K. ARAMAKI and T. SHIMURA

M.-G. VERGÉ, C.-O. A. OLSSON
and D. LANDOLT
W. L. WANG and M. L. FREE

- 2503 Impact of gamma-ray-pre-irradiation on the efficiency of corrosion inhibition of some novel polymeric surfactants
 2517 Passivity and its breakdown of sintered NdFeB-based magnets in chloride containing solution
 2533 Preparation of a one-dimensional polymer film on passivated iron by modification of a carboxylate ion self-assembled monolayer with octyltriethoxysilane for preventing passive film breakdown
 2549 Examination of surface films on aluminium and its alloys by low-voltage scanning and scanning transmission electron microscopy
 2563 Prevention of passive film breakdown on iron by coverage with one-dimensional polymer films of a carboxylate ion self-assembled monolayer modified with allyltriethoxysilanes
 2583 Anodic oxide growth on tungsten studied by EQCM, EIS and AES
 2601 Prediction and measurement of corrosion inhibition of mild steel using nonionic surfactants in chloride media
- I Corrosion diary
 V Keywords for *Corrosion Science*

CONTENTS Direct

This journal is part of **ContentsDirect**, the *free* alerting service which sends tables of contents by e-mail for Elsevier books and journals. You can register for **ContentsDirect** online at: <http://contentsdirect.elsevier.com>

Indexed/Abstracted in Current Contents, Engng Ind Monthly & Author Index, PASCAL/CNRS Database, Corrosion Abstracts, Metals Abstracts, Chemical Abstracts, INSPEC Database, BMT Abstracts, Petroleum Abstracts, Aqua Abstr, Cam Sci Abstr, Chem Eng Abstr, Chem Haz in Indus, Edi Metal Abstr, Environ Per Bibl, Materials Science Citation Index, Applied Science & Technology Index, Wilson Applied Science & Technology Abstracts, Current Techology Index / CTI)

ISSN 0010-938X

Also available on

SCIENCE @ DIRECT®

www.sciencedirect.com



0010-938X(200410)46:10;1-W