



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

Correspondences

A. O. VOLKOV, P. K. DATTA,
J. S. BURNELL-GRAY and R. COUPER
R. M. SOUTO, Y. GONZÁLEZ-GARCÍA,
S. GONZÁLEZ and G. T. BURSTEIN

Papers

V. DEDESHMUKH, A. VENUGOPAL,
D. CHANDRA, A. YILMAZ, J. DAEMEN,
D. A. JONES, S. LEA and
M. ENGELHARD

L. W. TSAY, H. H. LIN and
R. K. SHUE

C. CUEVAS-ARTEAGA,
J. URUCHURTU-CHAVARIN,
J. PORCAYO-CALDERON,
G. IZQUIERDO-MONTALVO and

J. GONZÁLEZ

M. MORENO, W. MORRIS,
M. G. ALVAREZ and G. S. DUFFO

D. CHEBABI, Z. AIT CHIKLI,

A. DERMAI, K. RHATTAS, T. JAZDULL,
N. HADJAL, F. EL MDARI and A. SREHRI

- 2613 Hydrodynamic measurement of a single corrosion pit
- 2621 Damage to paint coatings caused by electrolyte immersion as observed in situ by scanning electrochemical microscopy
- 2629 X-ray photoelectron spectroscopic analyses of corrosion products formed on rock bolt carbon steel in chloride media with bicarbonate and silicate ions
- 2651 Fatigue crack growth behavior of laser-annealed IN 718 alloy in hydrogen
- 2663 Study of molten salt corrosion of HK-40M alloy applying linear polarization resistance and conventional weight loss techniques
- 2681 Corrosion of reinforcing steel in simulated concrete pore solutions. Effect of carbonation and chloride content
- 2701 Synthesis of bolaamphiphile surfactants and their inhibitive effect on carbon steel corrosion in hydrochloric acid medium

Contents continued on outside back cover

Continued from front cover

- | | | |
|--|------|---|
| B. TIRBONOD | 2715 | A model for an anodic dissolution cell in connection to its dimensions for stress corrosion cracking |
| T. TÜRKEN, G. ARSLAN, B. YAZICI and M. ERBİL | 2743 | The corrosion protection of mild steel by polypyrrole/polyphenol multilayer coating |
| G. ENGELHARDT and D. D. MACDONALD | 2755 | Unification of the deterministic and statistical approaches for predicting localized corrosion damage. I. Theoretical foundation |
| F. BENTISS, M. TRAINSEL, H. VEZIN, H. F. HILDEBRAND and M. LAGRENER | 2781 | 2,5-Bis(4-dimethylaminophenyl)-1,3,4-oxadiazole and 2,5-bis(4-dimethylaminophenyl)-1,3,4-thiadiazole as corrosion inhibitors for mild steel in acidic media |
| Z. AVRAMOVIC and M. ANTONIJEVIC | 2793 | Corrosion of cold-deformed brass in acid sulphate solution |
| C. M. A. BRETT, I. IOANITSCU and F. TRANDAFIR | 2803 | Influence of the biological fluid on the corrosion of dental amalgam |
| Q. LU, P. SKELDON, G. E. THOMPSON, D. MASHEDER, H. HABAZAKI and K. SHIMIZU | 2817 | Transport numbers of metal and oxygen species in anodic tantalum |
| M. A. AMEER, E. KHAMIS and M. AL-MOTLAQ | 2825 | Electrochemical behaviour of recasting Ni-Cr and Co-Cr non-precious dental alloys |
| X. J. ZHANG, Y. NIU and F. GESMUNDO | 2837 | Oxidation of the three-phase Cu-20Ni-30Cr and Cu-20Ni-40Cr alloys at 700-800 °C in 1 atm O ₂ |
| E. ZUCCHI, V. GRASSI, A. FRIGNANI and G. TRABANELLI | 2853 | Inhibition of copper corrosion by silane coatings |
| | I | Corrosion diary |
| | III | Keywords for <i>Corrosion Science</i> |

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 Indust, Edt Metal Abstr, Environ Per Bibl, Materials Science Citation Index, Applied Science & Technology Index, Wilson Applied Science & Technology Abstracts, Current Technology Index (CTI)

ISSN 0010-938X

Also available on

SCIENCE @ DIRECT®
www.sciencedirect.com


0010-938X(200411)46:11;1-U