

CO

Ref: C 2 PF 171198/01 Df: 27745163
 CORROSION SCIENCE (PAPER EDITION)
 01.06.99 Vol. 41 No. 6
 0010-938X 22101144 19.07.99
 LIBRIS
 144 BOULEVARD KRIM BELKACEM
 ALGER
 ALGERIE

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

Volume 41, No. 6

June 1999

CONTENTS

- | | | |
|---|------|--|
| B. MALKI, A. LEGRIS and D. GORSE | 1031 | Threshold stress for crack initiation in yellow brass immersed in sodium nitrite solutions |
| J. L. ALBARRAN, L. MARTINEZ and H. F. LOPEZ | 1037 | Effect of heat treatment on the stress corrosion resistance of a microalloyed pipeline steel |
| S. COLIN, E. BECHE, R. BERJOAN, H. JOLIBOIS and A. CHAMBAUDET | 1051 | An XPS and AES study of the free corrosion of Cu-, Ni- and Zn-based alloys in synthetic sweat |
| J. M. OLIVE, J. CWIEK and D. DESJARDINS | 1067 | Quantification of the hydrogen produced during corrosion fatigue crack propagation |
| A. CONDE and J. J. DE DAMBORENEA | 1079 | Stress corrosion cracking behaviour of 8090 Al-Li alloy at 313 K. The effect of grain structure |
| X. ZHOU, G. E. THOMPSON, P. SKELDON, G. C. WOOD, K. SHIMIZU and H. HABAZAKI | 1089 | Anodic oxidation of an Al-2 wt% Cu alloy: effect of grain orientation |
| X.-Y. LI, E. AKIYAMA, H. HABAZAKI, A. KAWASHIMA, K. ASAMI and K. HASHIMOTO | 1095 | Electrochemical and XPS studies of the corrosion behavior of sputter-deposited amorphous Fe-Cr-Ni-Nb alloys in 6 M HCl |
| S. H. GOODS and R. W. BRADSHAW | 1119 | Constant extension rate testing of IN625LCF in molten nitrate salt |
| V. LIGIER, M. WÉRY, J.-Y. HIHN, J. FAUCHEU and M. TACHEZ | 1139 | Formation of the main atmospheric zinc end products: $\text{NaZn}_4\text{Cl}(\text{OH})_6\text{SO}_4 \cdot 6\text{H}_2\text{O}$, $\text{Zn}_3\text{SO}_4(\text{OH})_6 \cdot n\text{H}_2\text{O}$ and $\text{Zn}_4\text{Cl}_2(\text{OH})_4\text{SO}_4 \cdot 5\text{H}_2\text{O}$ in $[\text{Cl}^-][\text{SO}_4^{2-}][\text{HCO}_3^-][\text{H}_2\text{O}_2]$ electrolytes |
| K. DAROWICKI and S. JANICKI | 1165 | Evaluation of the effect of ruthenium oxide on the properties of composite electrodes used in cathodic protection |

Contents continued on outside back cover



PERGAMON

Continued from front cover

- | | | |
|---|------|---|
| A. CAKIR, S. TUNCELL and
A. AYDIN | 1175 | AE response of 316L SS during SSR test under potentiostatic control |
| G. E. KIOURTSIDIS, S. M. SKOLIANOS
and E. G. PAVLIDOU | 1185 | A study on pitting behavior of AA2024/SiC _p composites using the double cycle polarization technique |
| A. FRIGNANI, L. TOMMESANI,
G. BRUNORO, C. MONTICELLI and
M. FOGAGNOLO | 1205 | Influence of the alkyl chain on the protective effects of 1,2,3-benzotriazole towards copper corrosion. Part I: inhibition of the anodic and cathodic reactions |
| A. FRIGNANI, M. FONSATI,
C. MONTICELLI and G. BRUNORO | 1217 | Influence of the alkyl chain on the protective effects of 1,2,3-benzotriazole towards copper corrosion. Part II: formation and characterization of the protective films |
| | I | Keywords for <i>Corrosion Science</i> |



This journal is part of **ContentsDirect**, the *free* alerting service which sends tables of contents by e-mail for Elsevier Science books and journals. The quickest way to register for **ContentsDirect** is via the World Wide Web at: www.elsevier.nl/locate/ContentsDirect

If you don't have access to the WWW you can register for this service by sending an e-mail message to cdsubs@elsevier.co.uk specifying the title of the publication you wish to register for. The tables of contents are also available on the Elsevier Science website at: www.elsevier.nl or www.elsevier.com or www.elsevier.co.jp

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 Technology Index (CTI)

ISSN 0010-938X



0010-938X(1999)41:6;1-R