

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

Volume 43, No. 9

September 2001

CONTENTS

- | | | |
|---|------|---|
| J. P. POPIĆ, M. L. AVRAMOV-IVIĆ
and I. D. DOROSLOVAČKI | 1601 | Electrochemical behavior of stainless steel W.Nr. 1.4301 in the malic acid and sulfur dioxide solution |
| G. GUNASEKARAN, R. NATARAJAN
and N. PALANISWAMY | 1615 | The role of tartrate ions in the phosphonate based inhibitor system |
| D. ZHANG, L. LI, L. CAO,
N. YANG and C. HUANG | 1627 | Studies of corrosion inhibitors for zinc-manganese batteries: quinoline quaternary ammonium phenolates |
| L. WANG | 1637 | Inhibiting effect of 2-mercaptopyrimidine on the corrosion of a low carbon steel in phosphoric acid |
| S. R. ALLAH-KARAM, V. VASANTASREE
and M. G. HOCKING | 1645 | Electrochemical potential mapping of a rapidly solidified processed light alloy |
| A. ABALLE, M. BETHENCOURT, F. J. BOTANA,
M. J. CANO and M. MARCOS | 1657 | Localized alkaline corrosion of alloy AA5083 in neutral 3.5% NaCl solution |
| H. TAMURA, N. ITO, M. KITANO
and S. TAKASAKI | 1675 | A kinetic model of the dissolution of copper(II) oxide in EDTA solutions considering the coupling of meta- and oxide ion transfer |
| P. T. JAKOBSEN and E. MAAHN | 1693 | Temperature and potential dependence of crevice corrosion of AISI 316 stainless steel |
| J. FLIS, J. MAŃKOWSKI,
T. ZAKROCZYMSKI and T. BELL | 1711 | The formation of phosphate coatings on nitrided stainless steel |
| T. ISHIKAWA, R. KATOH,
A. YASUKAWA, K. KANDORI,
T. NAKAYAMA and F. YUSE | 1727 | Influences of metal ions on the formation of β -FeOOH particles |

Contents continued on outside back cover



PERGAMON

<http://www.elsevier.com/locate/corsci>

Continued from front cover

- L. LEGRAND, G. SAGON, S. LECOMTE, 1739 A Raman and infrared study of a new carbonate green rust obtained by electrochemical way
 A. CHAUSSE and R. MESSINA
 K. SAITO and J. KUNIYA 1751 Mechanochemical model to predict stress corrosion crack growth of stainless steel in high temperature water
- S. HIROMOTO, K. ASAMI, A.-P. TSAI, 1767 Appearance of a negative loop on the polarization curves of $\text{Pd}_{78}\text{Si}_{16}\text{Cu}_{6-x}\text{Cr}_x$ amorphous alloys in phosphate buffered saline solution
 M. SUMITA and T. HANAWA
- S.-B. HONG, N. ELIAZ, E. M. SACHS, 1781 Corrosion behavior of advanced titanium-based alloys made by three-dimensional printing (3DP™) for biomedical applications
 S. M. ALLEN and R. M. LATANISION
- Y. LI 1793 Formation of nano-crystalline corrosion products on Zn-Al alloy coating exposed to seawater
 I Corrosion diary
 III 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 Science books and journals. You can register for **ContentsDirect** online at: www.elsevier.nl/locate/contentsdirect

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

Ref: PF 120201/05 Df: 29981670
 CORROSION SCIENCE (PAPER EDITION)
 01.09.01 Vol. 43 No. 9
 0010-938X 22101144 14.08.01
 LIBRIS - C2
 144 BOULEVARD KRIM BELKACEM
 ALGER
 ALGERIE



0010-938X(200109)43:9;1-H