

COL

Ref: C 2 PF 171198/01 Df: 27745163  
 CORROSION SCIENCE (PAPER EDITION)  
 01.05.99 Vol. 41 No. 5  
 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. 5**

**May 1999**

## CONTENTS

- |  |     |  |
|--|-----|--|
| Y. FENG, K. S. SLOW, W. K. TEO and A. K. HSIEH | 829 | The synergistic effects of propargyl alcohol and potassium iodide on the inhibition of mild steel in 0.5 M sulfuric acid solution      |
| S. ZHANG, T. SHIBATA and T. HARUNA             | 853 | Crack initiation and propagation of sensitized Type 304 stainless steel in the mixed solutions of sulfate and borate                   |
| V. VIGNAL, J. M. OLIVE and D. DESJARDINS       | 869 | Effect of molybdenum on passivity of stainless steels in chloride media using ex situ near field microscopy observations               |
| A. M. BECCARIA and L. CHIARUTTINI              | 885 | The inhibitive action of metacryloxypropylmethoxysilane (MAOS) on aluminium corrosion in NaCl solutions                                |
| P. CASTELLO, F. H. STOTT and F. GESMUNDO       | 901 | Yttrium-promoted selective oxidation of aluminium in the oxidation at 1100°C of an eutectic Ni-Al-Cr <sub>3</sub> C <sub>2</sub> alloy |
| P. CASTELLO, Y. NIU and F. GESMUNDO            | 919 | The sulphidation of copper-rich Cu-Ag alloys in H <sub>2</sub> -H <sub>2</sub> S at 550–750°C  |
| L. KOBOTIATIS, N. PEBERE and P. G. KOUTSOUKOS  | 941 | Study of the electrochemical behaviour of the 7075 aluminium alloy in the presence of sodium oxalate                                   |
| L. F. GARFIAS-MESIAS and J.M. SYKES            | 959 | Metastable pitting in 25 Cr duplex stainless steel   |
| Y. NIU, F. GESMUNDO, R. YAN and W. WU          | 989 | The corrosion of Fe-15 wt% Y and Fe-30 wt% Y in sulfidizing-oxidizing atmospheres at 600–800°C   |

*Contents continued on outside back cover*



**PERGAMON**

Continued from front cover

M. J. ROBINSON and N.C. JACKSON

- 1013 The influence of grain structure and intergranular corrosion rate on exfoliation and stress corrosion cracking of high strength Al-Cu-Mg alloys  
I Keywords for *Corrosion Science*



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](http://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](mailto: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](http://www.elsevier.nl) or [www.elsevier.com](http://www.elsevier.com) or [www.elsevier.co.jp](http://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)41:5;1-S