
High Temperature Corrosion and Materials Chemistry 11

Editors:

E. Opila

J. Fergus

P. Cannon

T. Markus

T. Maruyama

E. Wuchina

Sponsoring Divisions:



High Temperature Materials



Corrosion



Published by

The Electrochemical Society

65 South Main Street, Building D
Pennington, NJ 08534-2839, USA

tel 609 737 1902

fax 609 737 2743

www.electrochem.org

ecstransactions™

Vol. 66, No. 18

Copyright 2015 by The Electrochemical Society.
All rights reserved.

This book has been registered with Copyright Clearance Center.
For further information, please contact the Copyright Clearance Center,
Salem, Massachusetts.

Published by:

The Electrochemical Society
65 South Main Street
Pennington, New Jersey 08534-2839, USA

Telephone 609.737.1902
Fax 609.737.2743
e-mail: ecs@electrochem.org
Web: www.electrochem.org

ISSN 1938-6737 (online)
ISSN 1938-5862 (print)
ISSN 2151-2051 (cd-rom)

ISBN 978-1-62332-283-0 (Soft Cover)
ISBN 978-1-60768-641-5 (PDF)

Printed in the United States of America.

Table of Contents

<i>Preface</i>	<i>iii</i>
Scaling Kinetics and Scale Microstructure of Chromia Scales Formed on Ni-25%Cr Model Alloy during Oxidation in H ₂ O-Containing High and Low <i>pO</i> ₂ Test Gas at 1000°C <i>M. Hänsel, V. Shemet, E. Turan, I. Kijatkin, D. Simon, B. Gorr, H. J. Christ</i>	1
Effect of Sulphur on Fe-20Cr-(Mn, Si) and Fe-20Ni-20Cr-(Mn, Si) Corrosion in CO ₂ -H ₂ O at 650°C <i>C. Yu, T. D. Nguyen, J. Zhang, D. J. Young</i>	23
The Time and Temperature Dependence of AISI 316L Corrosion in Chlorosilane Environments <i>J. L. Aller, K. Ellingwood, B. Clark, P. E. Gannon</i>	41
Function of Reaction Layer in Pyrochlore Thermal Barrier Coatings against CMAS Corrosion <i>H. Wang, Z. Sheng, E. Tarwater, X. Zhang, J. W. Fergus</i>	53
Author Index	61