

---

# High Temperature Experimental Techniques and Measurements 2

---

**Editors:**

**T. Markus**

**R. Walker**

**G. Jackson**

**Sponsoring Division:**



**High Temperature Materials**



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](http://www.electrochem.org)

**ecs**transactions™

**Vol. 69, No. 15**

---

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](mailto:ecs@electrochem.org)  
Web: [www.electrochem.org](http://www.electrochem.org)

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

ISBN 978-1-62332-322-6 (CD-ROM)  
ISBN 978-1-60768-680-4 (PDF)

Printed in the United States of America.

---

***ECS Transactions, Volume 69, Issue 15***  
High Temperature Experimental Techniques and Measurements 2

**Table of Contents**

<i>Preface</i>	<i>iii</i>
A Laboratory Study of Partial Anode Effects during Aluminium Electrowinning <i>H. Åsheim, T. Aarhaug, E. Sandnes, O. S. Kjos, A. Solheim, G. M. Haarberg</i>	1
Behavior of Sodium Sulfate in Cryolite-Alumina Melts and Formation of Sulfurous Gases <i>R. Meirbekova, G. M. Haarberg, J. Thonstad, T. A. Aarhaug, G. Saevarsdottir</i>	13
Electrochemical Analysis for the Identification of Electrode Reaction in Ni-YSZ Anode as for Solid Oxide Fuel Cell <i>H. N. Im, D. K. Lim, T. R. Lee, Y. S. Yoo, M. Choi, S. J. Song</i>	25
Author Index	33