# **Characterization of Porous Materials**

## **Editors:**

#### **B. Lakshmanan**

General Motors Honeoye Falls, New York, USA

#### P. Pintauro

Vanderbilt University Nashville, Tennessee, USA

#### G. Brisard

University of Sherbrooke Sherbrooke, Québec, Canada

### **Sponsoring Divisions:**

Industrial Electrochemistry and Electrochemical Engineering

Physical and Analytical Electrochemistry



#### 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 **Pesitransactions** 

Vol. 13 No. 6

Copyright 2008 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)

ISBN 978-1-56677-663-9 (PDF) ISBN 978-1-60768-015-4 (Softcover)

Printed in the United States of America.

#### **Table of Contents**

Preface	iii
Nondestructive Reconstruction and Analysis of Solid Oxide Fuel Cell Anodes using X-ray Computed Tomography at sub-50 nm Resolution J. R. Izzo Jr., A. Joshi, K. Grew, W. Chiu, A. Tkachuk, S. Wang and W. Yun	1
Modeling of Indentation Studies of Reduced Porous Ni-8YSZ Anode and Electrolyte Structures J. Zhang, S. Biswas, T. Nithyanantham, S. Thangavel and S. Bandopadhyay	13
The Voltammetry and Impedance of Porous Electrodes Correlated by Fourier Transform <i>M. Sedlarikova, P. Dvorak and J. Vondrak</i>	21

Author Index