

---

# Sodium Batteries

---

## Editors:

### **C. S. Johnson**

Argonne National Laboratory  
Lemont, Illinois, USA

### **M. Doeff**

Lawrence Berkeley National Laboratory  
Berkeley, California, USA

### **J. Fergus**

Auburn University  
Auburn, Alabama, USA

### **J. M. Fenton**

University of Central Florida  
Cocoa, Florida, USA

## Sponsoring Divisions:



**Battery**



**Energy Technology**



**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. 50, No. 15**

---

Copyright 2013 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 978-1-62332-038-6 (Softcover)  
ISBN 978-1-60768-390-2 (PDF)

Printed in the United States of America.

---

***ECS Transactions, Volume 50, Issue 15***  
Sodium Batteries

**Table of Contents**

<i>Preface</i>	<i>iii</i>
Electrochemical Insertion of Sodium Ion into Nanocarbon Materials for Sodium Ion Batteries <i>T. Matsushita, Y. Ishii, S. Kawasaki</i>	1
Author Index	7