The Electrochemical Society

New Materials and New Configurations for Advanced Electrochemical Capacitors

by K. Naoi and P. Simon

Nanostructured Carbons: Double-Layer Capacitance and More

by P. Simon and A. F. Burke

Advanced Polymers as Active Materials and Electrolytes for ECs and Hybrid Capacitor Systems

by K. Naoi and M. Morita

Ig Manganese Oxides: Battery Materials Make the Leap to Electrochemical Capacitors

by D. Bélanger, T. Brousse, and J. W. Long

B Electrochemical Capacitors: Challenges and Opportunities for Real-World Applications

by J. R. Miller and A. F. Burke

Spring 2008 Vol. 17, No. 1

- **From the Editor**
- **7** Pennington Corner
- **B** Society News
- **15** Special Section: ECS Phoenix Meeting
- **28** People News
- **3** Technical Highlights
- The Chalkboard
- **33** Introduction to the Featured Articles
- **5**[°] Section News
- **5** Awards
- **6** New Members
- **5** Student News

On the cover...

Cover design by Dinia Agrawala. Artist's conception of a multifunctional electrode architecture for electrochemical capacitors in which nanoscopic manganese oxide deposits (green spheres) are distributed on a 3-dimensional, ultraporous, conductive carbon substrate (purple framework). Image generated by Michael S. Doescher (Naval Research Laboratory, 2004) using POV-RAY software, in support of the research programs of Jeffrey W. Long and Debra R. Rolison (Naval Research Laboratory).