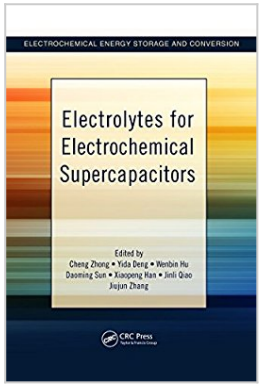

Electrolytes for Electrochemical Supercapacitors (Electrochemical Energy Storage and Conversion)

By Cheng Zhong, Yida Deng, Wenbin Hu, Daoming Sun, Xiaopeng Han, Jinli Qiao, Jiujun Zhang

Electrolytes for Electrochemical Supercapacitors (Electrochemical Energy Storage and Conversion) By Cheng Zhong, Yida Deng, Wenbin Hu, Daoming Sun, Xiaopeng Han, Jinli Qiao, Jiujun Zhang

Electrolytes for Electrochemical Supercapacitors provides a state-of-the-art overview of the research and development of novel electrolytes and electrolyte configurations and systems to increase the energy density of electrochemical supercapacitors. Comprised of chapters written by leading international scientists active in supercapacitor research and manufacturing, this authoritative text:

- Describes a variety of electrochemical supercapacitor electrolytes and their properties, compositions, and systems
- Compares different electrolytes in terms of their effects on electrochemical supercapacitor performance
- Examines the interplay between the electrolytes, active electrode materials, and inactive components of the supercapacitors
- Discusses the design and optimization of electrolyte systems for improving electrochemical supercapacitor performance
- Explores the challenges electrochemical supercapacitors currently face, offering unique insight into next-generation supercapacitor applications

Thus, **Electrolytes for Electrochemical Supercapacitors** is a valuable resource for the research and development activities of academic researchers, graduate/undergraduate students, industry professionals, and manufacturers of electrode/electrolyte systems and electrochemical energy devices such as batteries, as well as for end users of the technology.

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Editorial Review

Review

"… provides a nice overview of both the fundamentals of electrochemical capacitor technologies and some of the latest and most impactful publications on electrochemical interactions between electrolytes and various electrode materials. … discusses technologically important but often omitted topics related to the impacts of binders and oxidation stability of current collectors utilized in the construction of supercapacitor electrodes."
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?Patrice Simon, University Paul Sabatier, Toulouse, France

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Cheng Zhong is an associate professor in the School of Materials Science and Engineering at Tianjin University. Prior to joining the faculty at Tianjin University, he worked as an associate professor in the State Key Laboratory of Metal Matrix Composites in the Department of Materials Science and Engineering at Shanghai Jiao Tong University. He earned his BSc and PhD in Materials Science from Fudan University in 2004 and 2009, respectively. Dr. Zhong’s recent research interests focus on the development of electrochemical metallurgy methods for preparing micro/nanostructured materials for electrochemical and electrocatalysis applications.

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