



# Electrochemical Technologies for Energy Storage and Conversion

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With its uniformly structured, self-contained chapters, this is ideal reading for entrants to the field as well as experienced researchers.

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## Editorial Review

### Review

"In this handbook gives a comprehensive overview of electrochemical energy and conversion methods."  
(Energy Database, 2012)

### From the Back Cover

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### About the Author

Ru-Shi Liu is Professor at the Department of Chemistry of the National Taiwan University in Teipei where his research is focused on materials chemistry. After his PhD he joined the Materials Research Laboratories at the Industrial Technology Research Institute in Hsinchu, Taiwan, before returning to Teipei. He received various honors, including the Outstanding Young Chemist Award from the Chinese Chemical Society.

Andy Sun holds a Canada Research Chair in the development nanomaterials and clean energy, and is Associate Professor in the Department of Mechanical and Materials Engineering at University of Western Ontario, Canada. The scope of his research ranges from fundamental science and applied nanotechnology to emerging engineering issues, specifically fuel cells, Li-ion batteries and energetic materials.

Hansan Liu is Research Associate at the NRC Institute for Fuel Cell Innovation, Canada. He obtained his PhD from Xiamen University, China. Hansan Liu has ten years of research experience in the field of electrochemical energy conversion and storage devices, including Ni-MH batteries, lithium ion batteries as well as direct methanol and polyelectrolyte membrane fuel cells.

Lei Zhang is Research Council Officer at the NRC Institute for Fuel Cell Innovation. She received her degrees in materials science and engineering from the Wuhan University of Technology, China, and an additional master degree in inorganic chemistry from the Simon Fraser University, Canada. Her research emphasis is on cost-effective catalyst development for polyelectrolyte membrane fuel cells and metal-air batteries.

Jiujun Zhang is Senior Research Officer at the NRC Institute for Fuel Cell Innovation. He received his PhD from Wuhan University and took up a position at the Huazhong Normal University, followed by postdoctoral research at the California Institute of Technology, USA, University of York, UK, and the University of British Columbia, Canada. Jiujun Zhang has more than thirteen years of experience in fuel cell research and development.

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