



## **DEYANG QU** **University of Wisconsin-Milwaukee**

Deyang Qu is a professor and department chair of mechanical engineering at the University of Wisconsin-Milwaukee (UWM). Prior to joining UWM, Deyang taught in the department of chemistry at the University of Massachusetts Boston, was a chemist with Spectrum Brands (formerly Rayovac), and was a staff scientist at Emtech Technology Corporation (Ashurst Technology Center).

At UWM, Deyang heads up Dr. Deyang Qu's Research Group where he works with professors, visiting scholars, and graduate and undergraduate student researchers. The Group's research focuses on fundamental electrochemical research which seeks new materials as well as an understanding of reaction mechanisms in the areas of renewable energy, sensors, and water treatments. He writes that "The rapid proliferation and commercial success of micro-hybrid and hybrid vehicles has not only led to an increase in the demand for advanced secondary batteries, but also renewed interests in the development of both the traditional lead acid batteries to suit for the micro-hybrid applications and the high capacity traction batteries for true electric vehicles, which are believed to be the next generation of transportation for urban commuters. Longer and stronger energy storage systems are not only critical to national energy independence from foreign oil, but also important to the nation's strong military and space program."

Deyang's areas of research include renewable energy, solid-state Li batteries, Li-S batteries, Li-ion batteries, metal air (Zn-air and Li-air) batteries, supercapacitors, fuel cells, lead acid, hydrogen storage materials, and alkaline batteries.

After receiving his B.Sc. in chemistry from Wuhan University, China, Deyang received a Ph.D. in chemistry from the University of Ottawa in Canada.