

Andrew N. Jansen

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Professional Experience

1993 – present: Argonne National Laboratory

- Investigated low-temperature performance of lithium-ion batteries using micro-reference electrodes
- Developed flexible low-cost packaging for a hybrid electric vehicle battery, including accelerated abuse test procedures to predict calendar life
- Developed micro-reference electrodes and large-area planar test fixtures for lithium-ion cells
- Developed high-power lithium-ion battery using metal oxides as alternative anode materials
- Evaluated novel lithium salts for use as overcharge protection
- Explored performance of laboratory and prototype cells as a function of operating conditions and starting materials
- Investigated influence of metal additives in nickel-metal hydrides on crystal structure and cell performance

Professional Society Activities

- Electrochemical Society

Education

- PhD, Chemical Engineering, University of Florida
- MS, Chemical Engineering, University of Virginia
- BS, Chemical Engineering, University of Wisconsin

Awards

- Argonne National Laboratory Quality and Safety Recognition Award, 2006
- Air Products and Chemicals, Inc. 4th Annual External Collaboration Award, 2006
- University of Virginia Fellowship, 1988
- Dow Chemical Outstanding Junior Chemical Engineer Award, 1985

Patents

- "Lithium-Titanium-Oxide Anodes for Lithium Batteries," U.S. Patent No.6,221,531, April 24, 2001