

Modeling of the Interface and Interphases in Li-ion Batteries

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Short Biography

Dr. Yue Qi is an associate professor in the Chemical Engineering and Materials Science Department at Michigan State University. She received her PhD in Materials Science from California Institute of Technology in 2001. She was a co-recipient of 1999 Feynman Prize in Nanotechnology for Theoretical Work during her PhD study. After her PhD, she spent 12 years working at Chemical Sciences and Materials Systems Lab, General Motors R&D Center, Warren, MI. At GM, she developed multi-scale models starting from atomistic level to solve problems related to forming and machining of light weight alloys, and developing energy materials for batteries and fuel cells. She won three GM Campbell awards for outstanding research on various topics and TMS Young Leader Professional Development Award. Her recent research interest is integrating material failure model with battery life prediction.