

Oleg Borodin

Dr. Borodin currently works as a research scientist at the Electrochemistry Branch of the US Army Research Laboratory, focusing on multiscale modeling of materials for energy storage applications such as batteries and capacitors. His expertise include quantum chemistry calculations and high throughput screening of electrochemical reactions in electrolytes and electrode - electrolyte interfaces, force field development and molecular dynamics simulations of liquid, ionic liquid, polymeric and solid electrolytes for lithium battery applications, solid electrolyte interphase (SEI) components, electric double layer structure and capacitance. Before joining ARL in 2011 he worked at the University of Utah, Wasatch Molecular Inc and held a Guest Faculty appointment at ANL. His research was supported by DOE, NSF, NASA, DOD and private industry and published in 135 papers and 6 book chapters.

