Totally Solid State Electrolytes for Secondary Lithium Batteries via Computational Design

Brian Dixon¹ and Robert Morris¹ ¹Phoenix Innovation, Inc. Box 550 20 Patterson Brook Road West Wareham, MA 02576 USA

Completely solid state lithium battery systems are described that are based upon novel multi-element heteropolymers. These polymers were designed using computational chemistry techniques, and the subsequent experimental results have verified the virtual predictions. In addition the combined results have significantly advanced the state of the art of lithium power systems.