

Qichao Hu PhD

Education

2007-2012 *Harvard University*
PhD in Applied Physics
Advisor: Prof. Donald Sadoway, TIME 100 Most Influential People
Thesis: Electrode-Electrolyte Interfaces in Solid Polymer Lithium Battery

2003-2007 *Massachusetts Institute of Technology*
BS in Physics
Advisor: Prof. Yoel Fink
Thesis: Mode Synthesis in Photonic Bandgap Fibers

Work Experience

2012-Now *SolidEnergy Systems Corp.*
Founder, CEO, CTO
In the fall of 2012, cofounded SolidEnergy and spun it out of MIT. The goal was to develop next generation battery materials and revolutionize the consumer electronics and electric vehicles industries. This was during the toughest time in the US advanced battery industry, with many large battery companies going bankrupt. After overcoming enormous adversity, led SolidEnergy to win a worldwide exclusive license on the MIT patent, Series A investment, became the first and only startup to form a strategic partnership with A123 Venture Technologies, built a world-class team, and developed prototypes that achieved almost 1400 Wh/L in energy density in one year. Created a beautiful “phoenix rising out of the ashes” story.

2008-2012 *Massachusetts Institute of Technology, Group Sadoway*
Doctoral and Post-doctoral Researcher
Studied lithium battery and battery materials, focused on room temperature solid polymer and ionic liquid electrolytes. Invented the Solid Polymer Ionic Liquid (SPIL) ultra-thin lithium metal battery, which demonstrated transformational energy density and safety, and led to the founding of SolidEnergy Systems.

Awards

2014 R&D100 Award
2013 NREL Industry Growth Forum
2013 Massachusetts Clean Energy Council Award
2012 Forbes 30 Under 30 in Energy
2012 ARPA-E Finalist
2012 Department of Energy National Clean Energy
2012 MIT \$100K
2012 MIT Clean Energy Prize

Press

Financial Times, ABC-Boston, South China Morning Post, MIT Technology Review