Professor Ju Li

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Ju Li is Carl Richard Soderberg Professor of Power Engineering at MIT Department of Nuclear Science and Engineering and Materials Science and Engineering, as well as a core faculty member of MIT Schwarzman College of Computing. Previously he has held faculty positions at the Ohio State University, and the University of Pennsylvania. His group (http://Li.mit.edu) investigates the mechanical, electrochemical and transport behaviors of materials as well as novel means of energy storage and conversion. Bases on his research, Li has founded multiple tough-tech companies. For example, Elementium Materials, Inc. develops advanced liquid electrolyte formulations, which is undergoing major pilot trials with two Fortune 500 companies, qualifying for hundreds of millions of devices/yr in production. Arcam Corporation specializes in recycling Li-ion battery wastes, that went into production in 2025 and has already sold 1000+ tons of recycled lithium-iron-phosphate (LiFePO4) cathode products.

Ju was elected Fellow of the American Physical Society in 2014, a Fellow of the Materials Research Society in 2017 and a Fellow of AAAS in 2020. Li is the chief organizer of MIT A+B Applied Energy Symposia that aim to develop solutions to global climate change challenges with “A-Action before 2040” and “B-Beyond 2040” technologies. (https://www.youtube.com/@mitab3889/videos).