

# LITHIUM METAL BATTERIES FOR HIGH ENERGY STORAGE DEVICES



**Electrodeposition is used in various chemical manufacturing processes and plays an important role in electrochemical energy storage technologies based on batteries. This talk considers the stability of electrodeposition of reactive metals on planar electrodes with the goal of enabling next-generation secondary batteries that promise substantial improvements in electrochemical energy storage.**

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is the James A. Friend Family Distinguished Professor of Chemical and Biomolecular Engineering at Cornell University. His research focuses on transport properties of polymers and polymer/particle hybrids, and their applications for electrochemical energy storage technology. Archer received his Ph.D. in chemical engineering from Stanford University in 1993 and the bachelor of science degree in chemical engineering (polymer science) from the University of Southern California in 1989. His research contributions have been recognized with various awards, including the AIChE Nanoscale Science and Engineering Forum award, the National Science Foundation Award for Special Creativity, a NSF Distinguished Lectureship, and the American Institute of Chemical Engineer's MAC Centennial Engineer award. At Cornell, he has been recognized twice with the Merrill Presidential award as the most influential member of the Cornell faculty selected by a Merrill Presidential Scholar awardee.



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