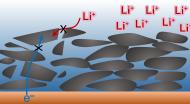


Fresh cell lithium plating
Rate-independent: n:p < 1
Rate-dependent: Local current density
beyond what electrode can support
(often low T, high I, or high compression)

Aged cell lithium plating due to LAM Rate-independent: n:Li inventory < 1 Rate-dependent: Increased local current density beyond what electrode can support



Aged cell lithium plating due to SEI

growth

Rate-dependent:

Hate-dependent:1. Decreased porosity → decreased

electrolyte transport 2. Decreased lithium transport kinetics through the SEI → decreased charge transfer kinetics