

Session Code [01] MoA2

Session Title	Li-Ion Battery 2
Date and Time	Monday, October 4, 2021 / 13:50-15:15
Session Room	Room A (Samda A)
Session Chair(s)	Seung-Wan Song (Chungnam Nat'l Univ., Korea) Chunjoong Kim (Chungnam Nat'l Univ., Korea)

[[01] MoA2-1] Keynote Talk [Online] 13:50-14:20**Rational Design of Stabilized Ni-Rich Cathode for Li Batteries**Matthew Bergschneider, Patrick Conlin, Taesoon Hwang, and Kyeongjae Cho (*UT Dallas, USA*)**[[01] MoA2-2] Invited Talk 14:20-14:45****Interface Stabilization of Nickel-Rich Cathode as a Key for Promoted Safety and Energy Density of Li-Ion Batteries**Seung-Wan Song (*Chungnam Nat'l Univ., Korea*)**[[01] MoA2-3] 14:45-15:00****Exploring the Long Cycle Life Nature of Mg-Doped Spinel $\text{Li}_{1-2x}\text{Mg}_x\text{Ni}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Using First-Principles Calculations**Byungwook Kang, Hyungjun Kim, Myungkyu Kim (*Seoul Nat'l Univ., Korea*), Duho Kim (*Kyung Hee Univ., Korea*), and Maenghyo Cho (*Seoul Nat'l Univ., Korea*)**[[01] MoA2-4] 15:00-15:15****Robust Solid-Electrolyte Interphase for Lithium Plating-Free Graphite NCM811 Full-Cell under Subzero-Temperature**Yen Hai Thi Tran, Jisoo Han, and Seung-Wan Song (*Chungnam Nat'l Univ., Korea*)