



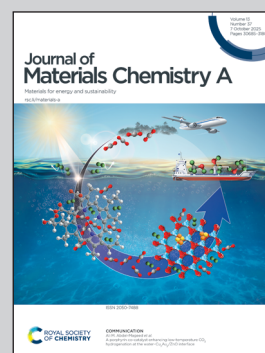
Showcasing research from Professor Montree Sawangphruk's laboratory, School of Energy Science and Engineering, Vidyasirimedhi Institute of Science and Technology (VISTEC), Thailand.

Suppressing failure mechanisms in thick Ni-rich cathodes using angstrom-level alumina coatings

A scalable low-temperature atomic layer deposition method applies ~2 nm alumina coatings to thick Ni-rich NMC811 electrodes, improving stability by suppressing microcracking, oxygen release, metal dissolution, and electrolyte decomposition for safer, longer-lasting lithium-ion batteries in commercial applications.

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See Montree Sawangphruk *et al.*, *J. Mater. Chem. A*, 2025, **13**, 30985.