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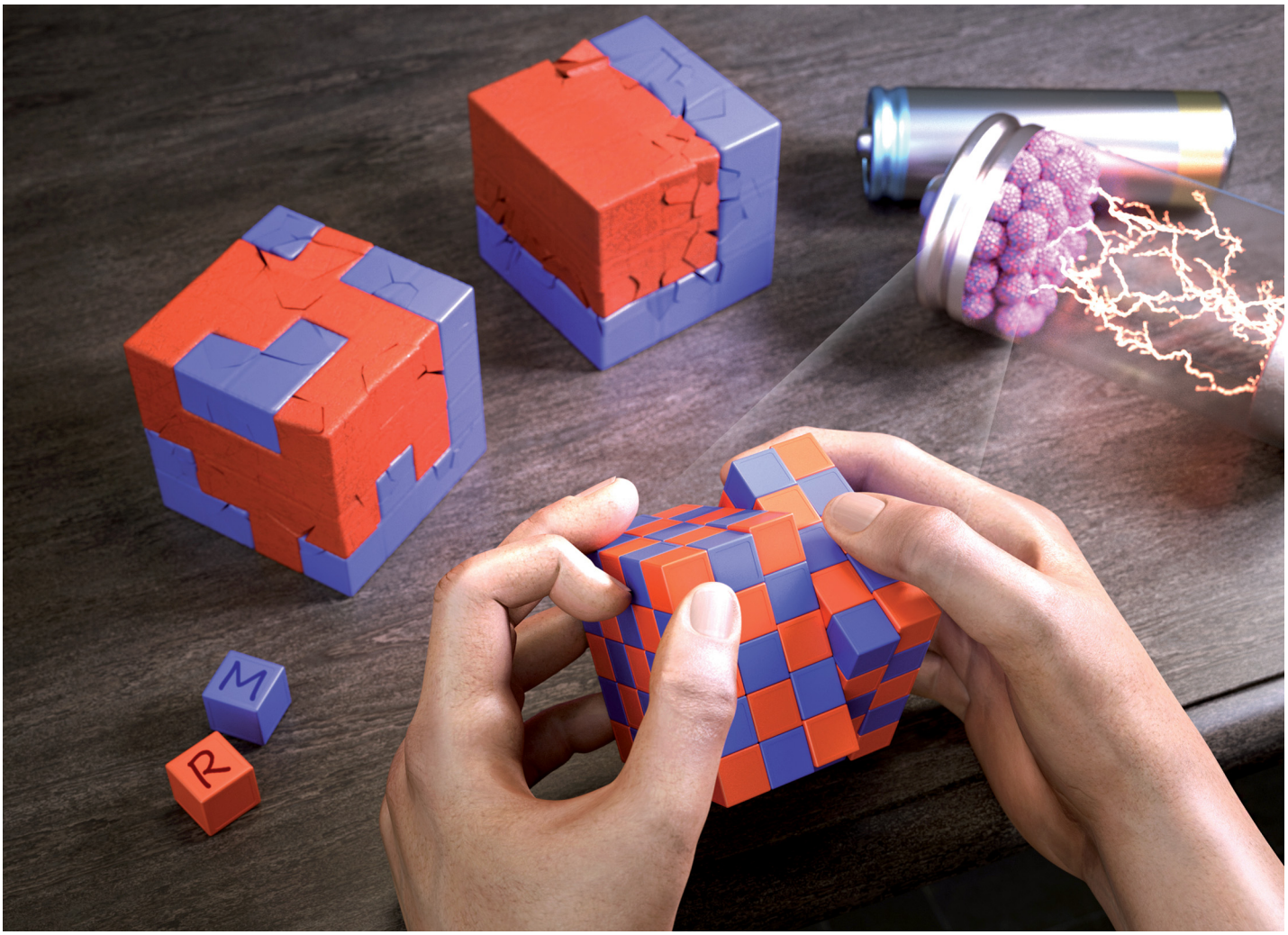

Showcasing research from Professor Kyu-Young Park's laboratory at the Graduate Institute of Ferrous & Eco Materials Technology, Pohang University of Science and Technology, Pohang, Republic of Korea.

Elucidating and controlling phase integration factors in Co-free Li-rich layered cathodes for lithium-ion batteries

Next-generation Co-free Li–rich layered oxides require coherent lattice integrity between R and M domains to achieve high capacity and extended cycle life. Atomic Li–Ni anti-site defects induce lattice strain that disrupts this coherence. By precise defect engineering to alleviate strain and reestablish domain homogeneity, both energy density and cycling stability are markedly enhanced.

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As featured in:

See Inchul Park, Kyu-Young Park *et al.*, *Mater. Horiz.*, 2025, **12**, 3731.

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