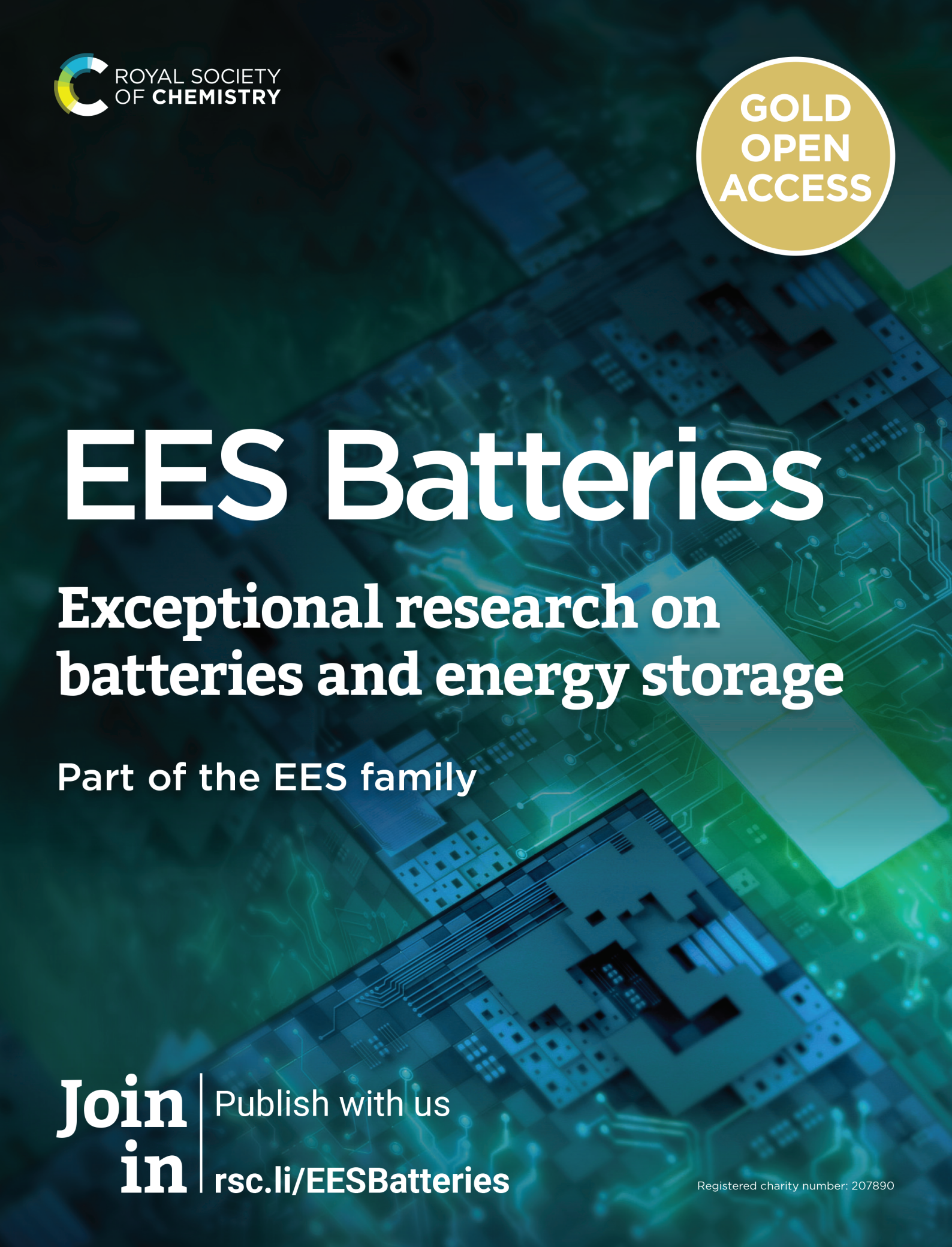
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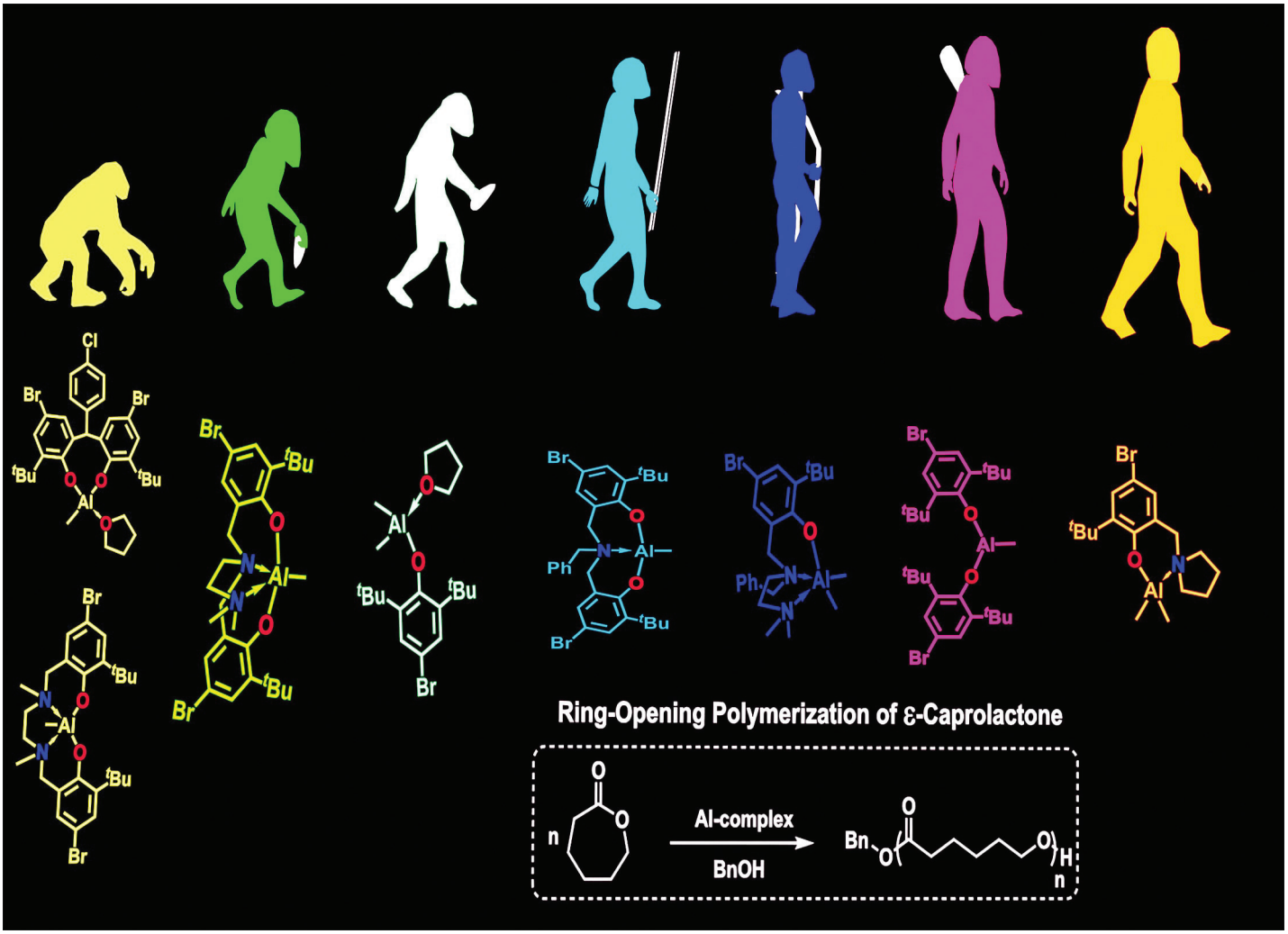
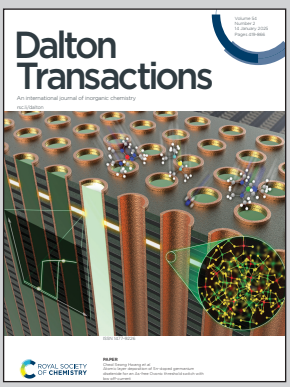


Showcasing research from Professor Hsuan-Ying Chen's laboratory, Department of Medicinal and Applied Chemistry, Kaohsiung Medical University, Taiwan, R.O.C.

Evolution of aluminum aminophenolate complexes in the ring-opening polymerization of ε-caprolactone: electronic and amino-chelating effects

A series of aluminum complexes bearing phenolate, biphenolate, aminophenolate, aminobiphenolate, bis(phenolato)bis(amine), and Salan ligands were synthesized, and their application for ε-Caprolactone polymerization was investigated. All Al complexes with electron-donating substituents on ligands exhibited higher catalytic activity than those with bromo substituent. This is due to the low initiating ability of two bridging benzyl alkoxides, and the electron-donating substituents on the phenolate ring and chelating amino group enhance the electron density of the Al center to prevent the formation of a low active dinuclear Al complex with two bridging alkoxides.

As featured in:



See Hsuan-Ying Chen *et al.*, *Dalton Trans.*, 2025, **54**, 511.

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