

# EES Catalysis

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Fundamental questions  
Elemental answers



Showcasing collaborative research from Professor Crudden, Gilroy and Ragogna's laboratory, at Queen's University and Western University in Ontario, Canada.

Combined electrodeposition and electropolymerization method to produce surface-bound polystyrenyl NHC thin films

N-heterocyclic carbenes affixed with styrene groups were electrodeposited and polymerized in a single step onto Au substrates. The polymer coatings are durable and offer superior protection of the surface from degradation. Depositions are highly area selective, with a strong preference for metallic regions on a patterned substrate.

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As featured in:



See J. J. Nožl, C. M. Crudden, J. B. Gilroy, P. J. Ragogna *et al.*, *Chem. Sci.*, 2026, **17**, 8472.