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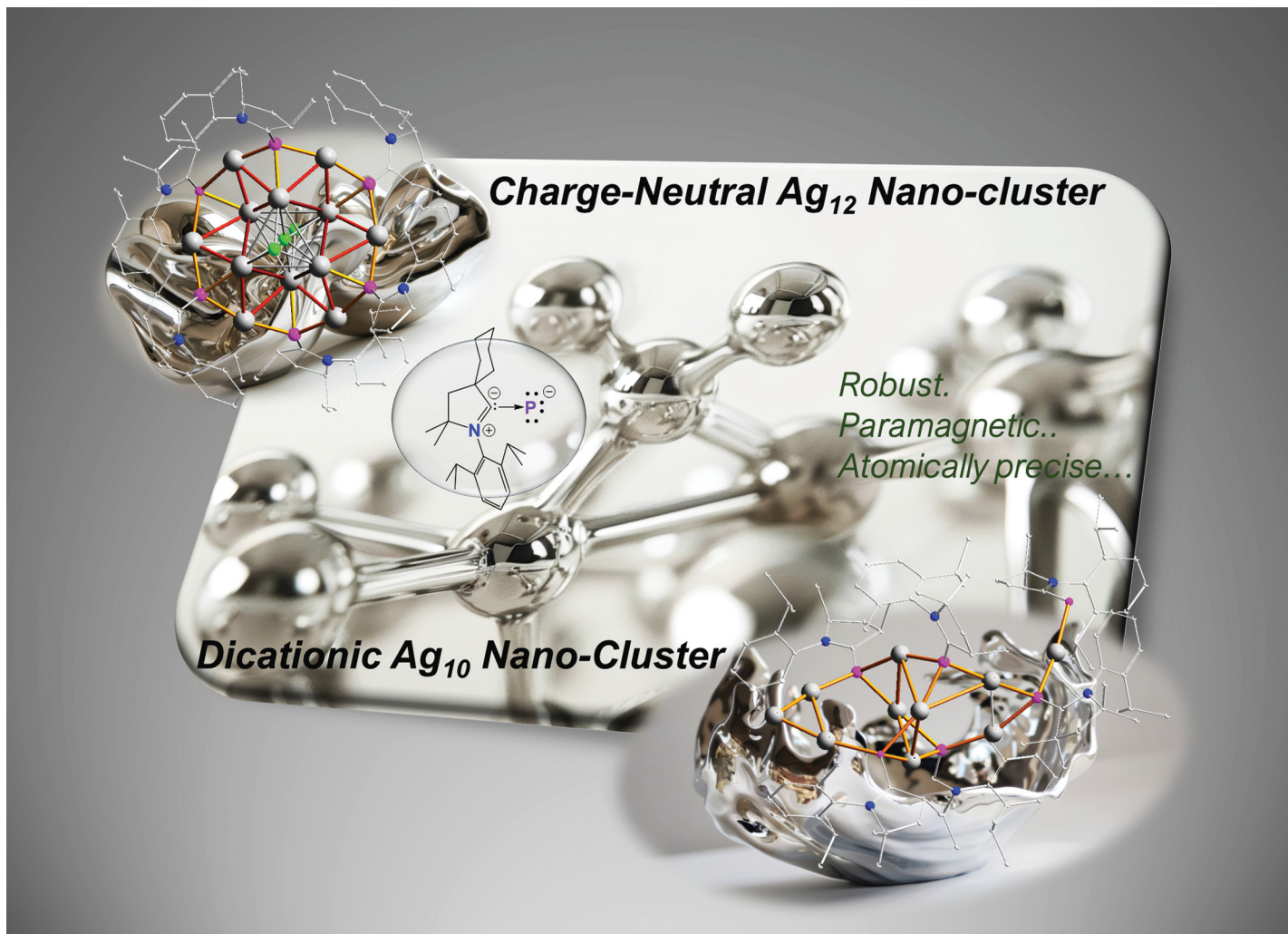


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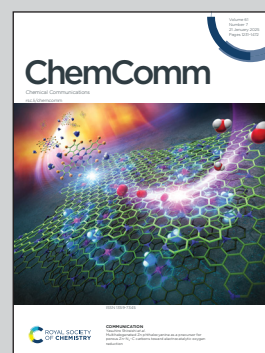
Showcasing research from Professor Sudipta Roy's laboratory, Department of Chemistry, Indian Institute of Science Education and Research (IISER) Tirupati, Andhra Pradesh, India.

Isolation of mixed valence charge-neutral Ag₁₂, and dicationic Ag₁₀ nano-clusters stabilized by carbene-phosphaalkenides

Cyclic alkyl(amino) carbene-supported phosphaalkenides were employed as ligands for isolation of two atomically precise mixed-valence nanoclusters (NCs) with Ag₁₂⁰Cl₃, and Ag₁₀²⁺ cores. The characteristic EPR signals exhibited by the NCs suggested coupling of unpaired electrons with ^{35,37}Cl, ³¹P and ^{107,109}Ag nuclei.

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As featured in:



See Sudipta Roy *et al.*,
Chem. Commun., 2025, **61**, 1379.