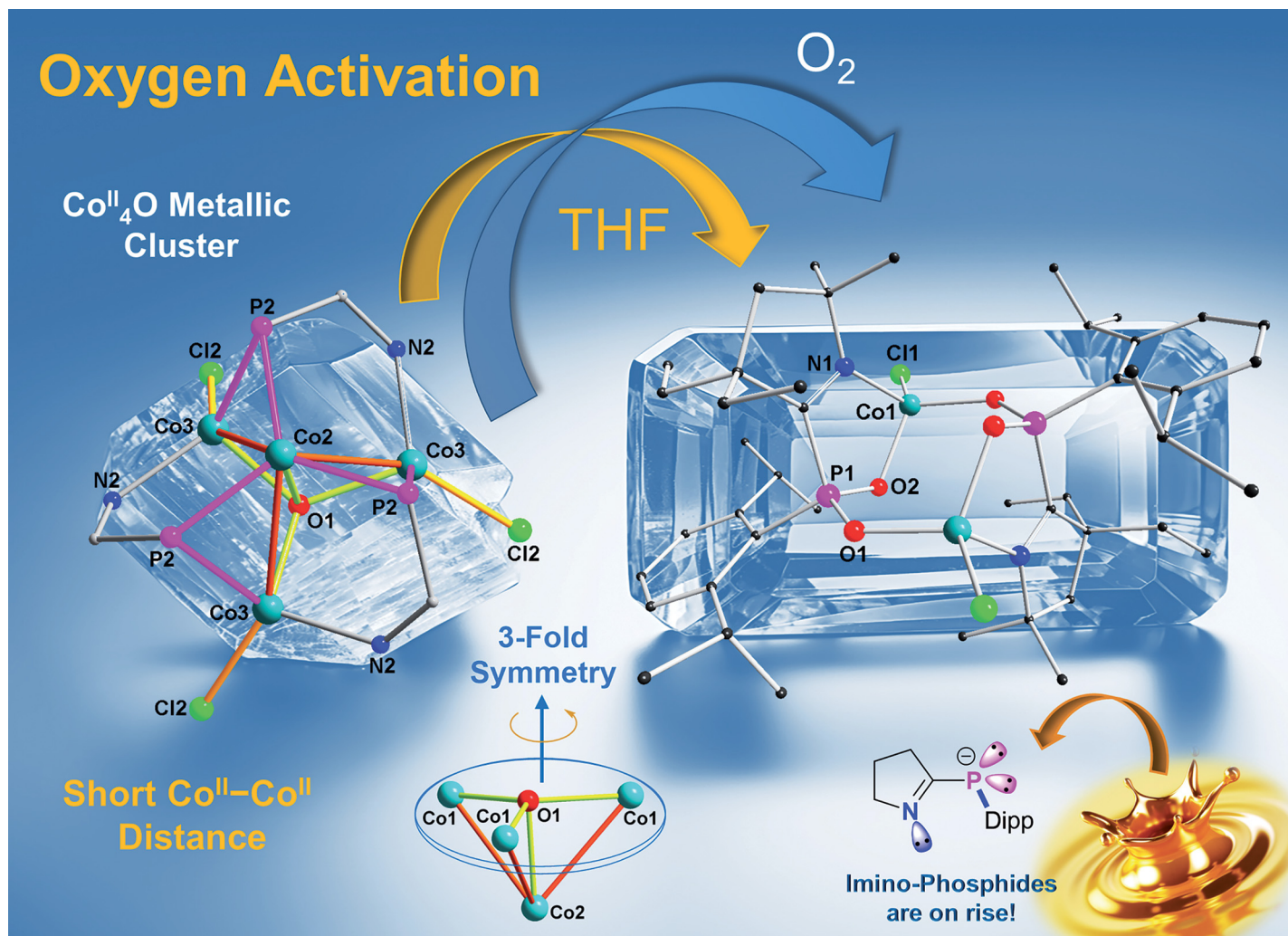




Showcasing research from Professor Roy's laboratory,
Department of Chemistry, Indian Institute of Science
Education and Research (IISER) Tirupati,
Andhra Pradesh, India

Isolation and oxygen activation of electron-rich Co₄O
metallic clusters having a 3-fold symmetry

Imino-phosphide ligands have been introduced for stabilization
of atomically precise tetra-nuclear cobalt clusters with Co₄O
core, and short Co-Co distances. The reactivity of these novel
clusters has been explored towards activation of molecular
di-oxygen, affording royal blue di-nuclear Co^{II} complexes.

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