

演題：**Hybrid Ligands: Metal Complexes, Catalysts and Precursors to Nanomaterials**

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要旨：Being characterized by the presence of chemically different functions available for coordination to metal centres, hybrid ligands allow a fine-tuning of the reactivity of transition metals and provide a considerable diversity of complexes often endowed with unique structural features and reactivity. The different hard-soft properties of the donor groups allow coordination to a broad range of metal ions.

Diverse situations will be discussed where ligands with N,P, N,O, P,O, C,P or C,S donor sets (C = NHC donor) have led to unusual complexes, with properties ranging from hemilability to selective ethylene oligomerization catalysis. A class of alkoxysilyl short-bite diphosphine ligands has been used for the anchoring of metal clusters into mesoporous materials, allowing the formation of nanoparticles from molecular precursors.

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