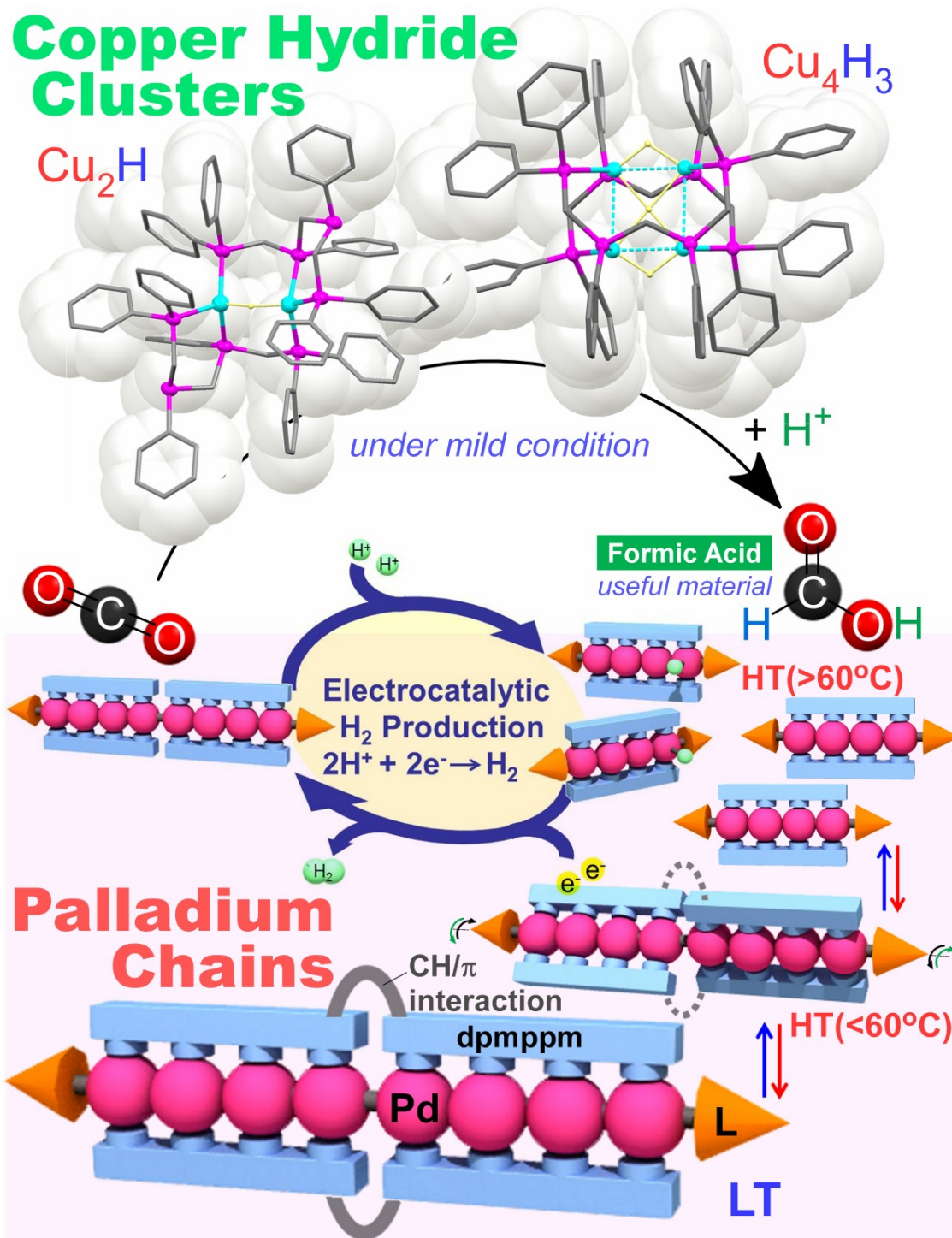


Development of New Materials Based on Fine Syntheses of Multinuclear Transition–Metal Complexes

Kanako NAKAMAE [Chemistry Course]



Palladium Chains and Copper Hydride Complexes

With an aim of developing nano-size scaled single molecular wires as molecular electronics, we have attempted to prepare and characterize nanostructured metal strings by bottom-up constructions making use of linear octapalladium metal atom chains supported by linear tetraphosphine, bis[(diphenylphosphinomethyl)phenylphosphino]methane (dpmppm). We have also studied activation of small molecules and development of new materials by using copper hydride clusters on the basis of element strategy.

Keywords : Coordination Chemistry, Organometallic Chemistry, Metal clusters, Nano Materials