Remarkable catalytic activity of dinitrogen-bridged dimolybdenum complexes bearing NHC-based PCP-pincer ligands toward nitrogen fixation

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Previous work
Molybdenum-catalyzed reduction of N₂ into NH₃ under ambient reaction conditions

This Work
Molybdenum-dinitrogen complexes bearing PCP-type pincer ligands

Synthesis of dinitrogen-bridged dimolybdenum-dinitrogen complexes bearing PCP ligands

Catalytic conversion of dinitrogen to ammonia with molybdenum-PCP[1] complex

Proposed reaction mechanism