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Tailor-made synthesis of multilayered trimetallocyclophanes via transannula π–π Interactions

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Synthesis and operation of a nano-demension 24 × 24 × 15 Å^3 "left and right ball-joint-type host-guest system" via one π···π interaction and three NH···O=C hydrogen-bonds along with the combined helicity are described. The system consists of unprecedented conglomerate aggregates of two distinct helical metallacyclophanes, chiral isomer (P)-$[Pd_3X_6(L_1)_2]$@(M)-$[Pd_3X_6(L_1)(L_2)]$ and its enantiomer (M)-$[Pd_3X_6(L_1)_2]$@(P)-$[Pd_3X_6(L_1)(L_2)]$ are described. Successive reactions afford desirable four-layered metallacyclophanes via tailor-made procedure. Synthesis and operation of a nano-demension size multilayered metallacyclophane system via one π···π interaction along with the combined helicity are described.

Biography

Ok-Sang Jung has completed his PhD in 1990 from Korea Advanced Institute of Science and Technology and did his Postdoctoral studies from University of Colorado in 1992-1993. He is the Director of BK21+ program of Pusan national University. He has published more than 230 papers in reputed journals and has been serving as an Associate Editor of *Bull. Korean Chem. Soc.*

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