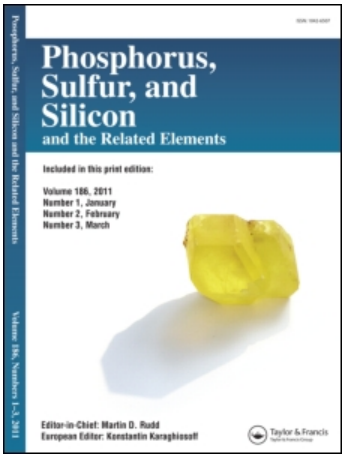

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Bimetallic Complexes of Phosphocavitands

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BIMETALLIC COMPLEXES OF PHOSPHOCAVITANDS

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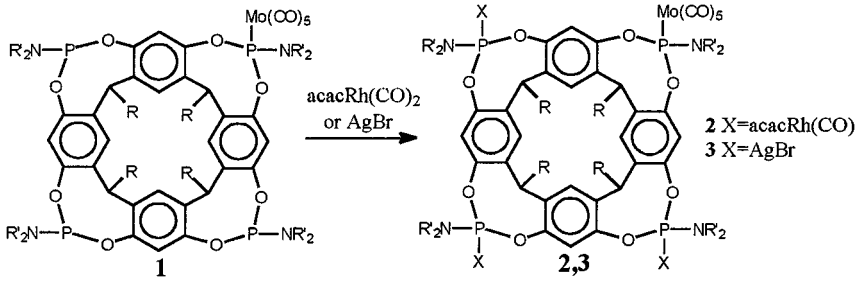
Macrocyclic systems containing in a molecule both coordinated and uncoordinated phosphorus atoms have been obtained by selective interaction of phosphocavitandes with hexacarbonyls of group VI metals.[1,2] The compounds of such type are a suitable matrix for the design of bimetallic complexes. Using the mononuclear complexes of molybdenum **1** as a substrate and acacRh(CO)$_2$ or AgBr as reagents we have first synthesized the bimetallic derivatives of phosphocavitandes in the molecules of which three phosphorus atoms are coordinated with Rh(I) **2** or Ag(I) **3**, and one phosphorus atom—with Mo(0).



SCHEME 1

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[2] E. E. Nifantiev, V. I. Maslennicova, S. E. Goryukhina, M. Yu. Antipin, K. A. Lyssenko, and L. K. Vasyuanina, *J. Organomet. Chem.*, in press.

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