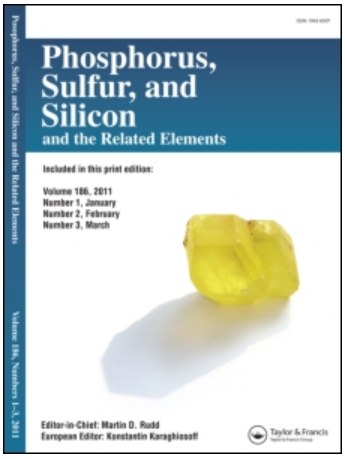

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Nitrido Bridges between Electrophilic Phosphorus Centers of S-, P- and D-Block Metals

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NITRIDO BRIDGES BETWEEN ELECTROPHILIC PHOSPHORUS CENTERS OF S-, P- AND D-BLOCK METALS

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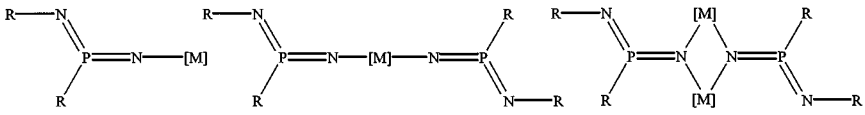
Bis(imino)phosphoranes are of considerable interest as synthetic building blocks in organo-phosphorus chemistry as well as in catalytic reactions.[1] Thus we are interested in metal complexes of this type with retention of the trigonal planar backbone at the phosphorus center. N-functionalized bis(imino)phosphoranes with sterically overcrowded substituents at the nitrogen or phosphorus atom react with various organometallic compounds at specific reaction conditions to give novel type main- and transition-metal complexes with different coordination modes (**I**, **II**, **III**).



I II III

SCHEME 1

The crystal structures of linear metal complexes of type **II** (Mg, Zn) as well as dimeric s, p and d-block metal complexes of type **III** (Li, Al, Zn) are reported.

REFERENCE

[1] E. Niecke, M. Larbig, M. Nieger, N. von der Gönna, and A. V. Ruban, *Angew. Chem. Int. Ed. Engl.*, **34,** 460–462 (2000).

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