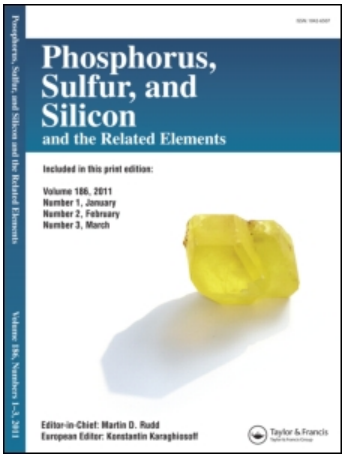

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Synthesis and Rearrangement of N-P^{III}-Phosphorylated Carboxylic Acid Amides

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SYNTESIS AND REARRANGEMENT OF N-P^{III}-PHOSPHORYLATED CARBOXYLIC ACID AMIDES.

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Reactions of carboxylic acid lactams with tervalent phosphorus chlorides, leading to N- and/or O- derivatives have been investigated. Synthetic methods for imidoylphosphites and phosphonates, mono- and bisphosphorylated azadienes have been developed. Prototropic migrations in azaallylic triad, phosphorus atom migrations in N-C-O triad and imidoylphosphite-imidoylphosphonate rearrangement were found.
It was encountered, that chlorination of amidophosphites containing one to three trihalogen acetamide groups is accompanied by chlorine or N-acylamide group shift and leads to cyclic and spirocyclic phosphoranes with 1,3,2-^{5}-oxazaphosphetanic cycle.