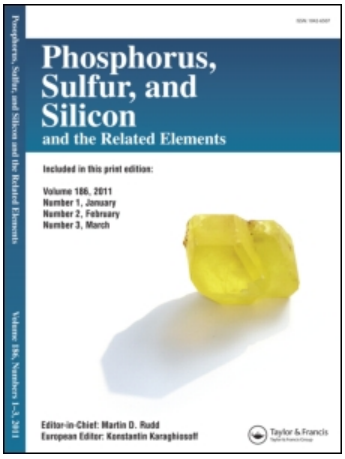

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Synthesis of Organophosphorus Compounds with -P=P≡ and -P=S= Units

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Synthesis of Organophosphorus Compounds with -P=P≡ and -P=S⟨ Units

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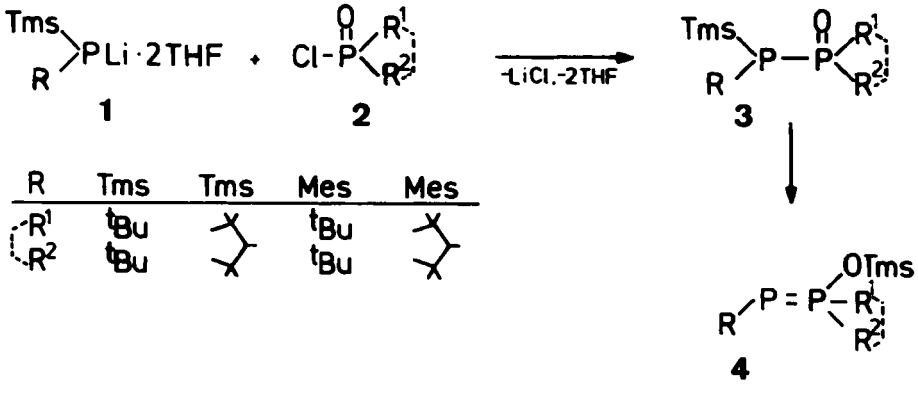
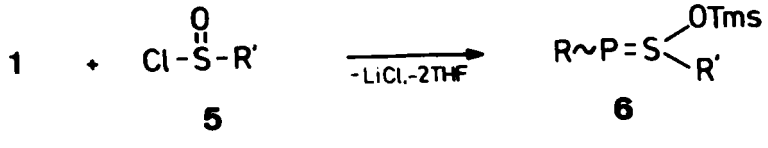
The lithium phosphide tetrahydrofurane complexes 1 react with phosphinic acid chlorides (2) to yield diphosphenes (4), possessing a tri- and a quinquevalent phosphorus atom; the diphosphane oxides 3 are regarded to be intermediate steps of the transformation.



An analogous reaction sequence of 1 with sulfinic acid chlorides (5) leads to the hitherto unknown phosphanyliden sulfuranes 6.



The behaviour of the P/P- and the P/S-double bonds of 4 and 6 towards cycloaddition partners is discussed.