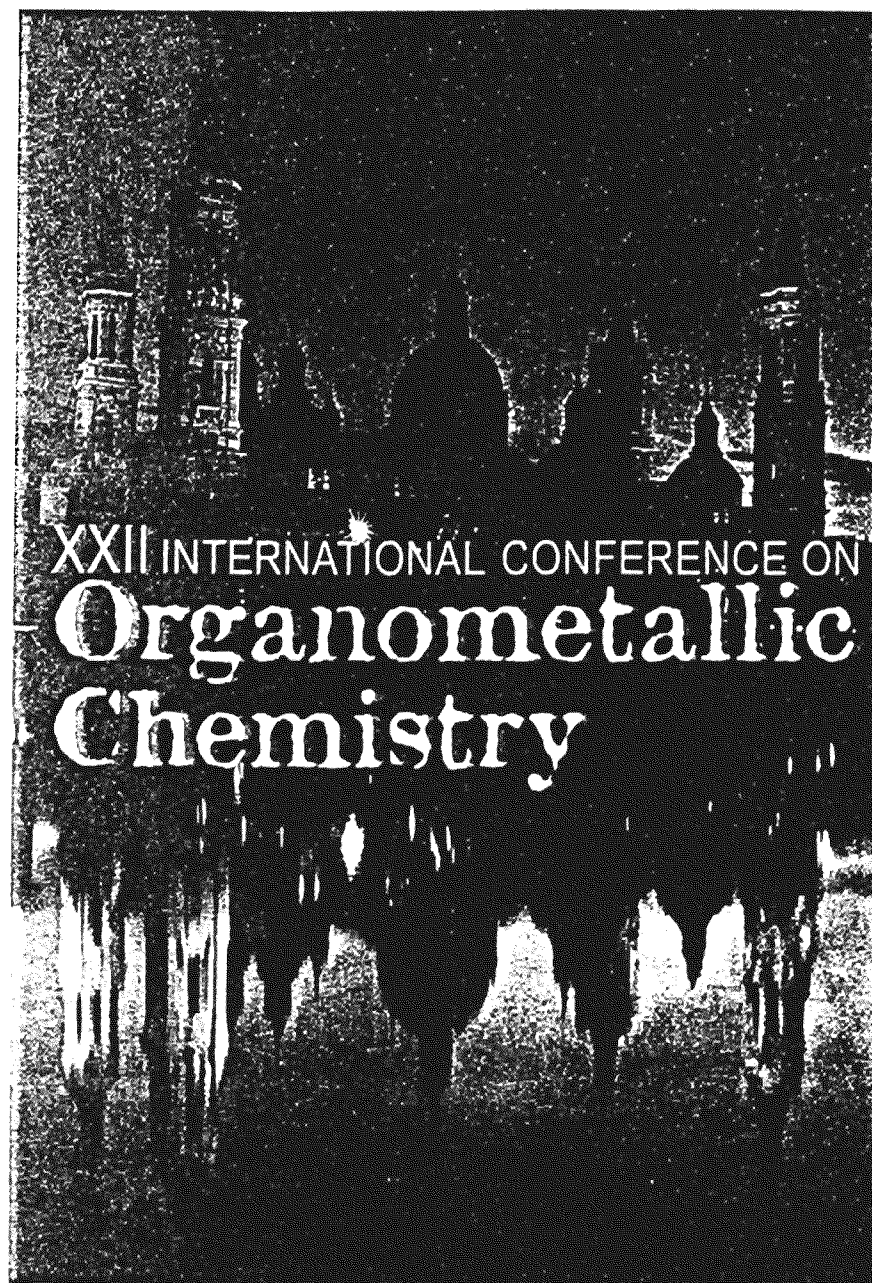


VOLUME 2

POSTER PRESENTATIONS



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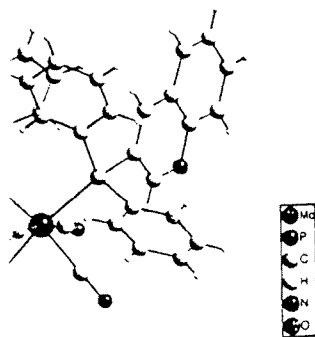


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ulu, Finland.

eters for the structures and en ligands in the coordination on. The attractive interactions very promising approach to ons between phosphanes cause s.²⁻³ Those interactions were ids. By changing the pH of the used on these promising results determine if similar interactions incorporated to the phosphane prepared, together with their phosphanes have been fully), elemental analysis and mass (O)₄(P(3-quin)Ph₃)₂] have been pyridylalkylphosphanes.



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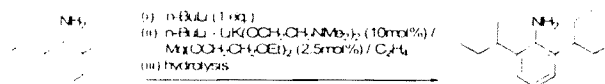
emistry 2001, 633(1-2), 66.
e Chemistry 2001, 9, 2255.

THE PREPARATION OF BULKY AROMATIC AMINES BY SUPERBASE PROMOTED SIDE-CHAIN ETHYLATION : APPLICATIONS AND PROPERTIES

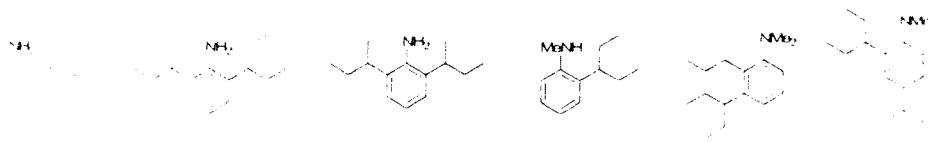
B. R. Steele,* S. Georgakopoulos, I. D. Kostas, C. G. Screttas

stitute of Organic and Pharmaceutical Chemistry, National Hellenic Research Foundation, 48 Vas. Constantinou Avenue, 11635 Athens, Greece.

A range of ring-alkylated primary, secondary and tertiary anilines with varying degrees of steric crowding has been prepared by the side-chain alkylation by ethylene of the corresponding methyl or ethyl substituted anilines promoted by the strong base system $n\text{-BuLi}\cdot\text{LiK}(\text{OCH}_2\text{CH}_2\text{NMe}_2)_2\cdot\text{Mg}(\text{OCH}_2\text{CH}_2\text{OEt})_2$.¹

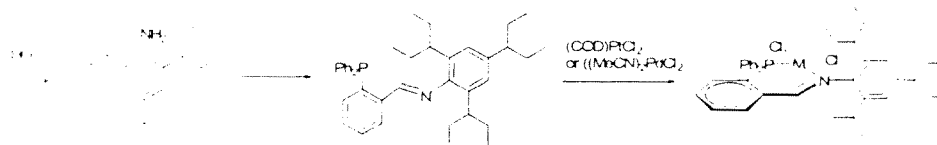


Representative products are shown below. Ethylation of primary anilines by this procedure is only successful for 2,6-dialkylanilines and only occurs at the ortho alkyl groups, whereas for secondary and tertiary anilines a wider range of starting materials can be applied. Methyl groups are either mono- or dimethylated, depending on the position of the other substituents, while ethyl groups are mono-ethylated only.



These products complement a series of bulky anilines with similar substituents previously reported by us, which were obtained from the corresponding methylbenzenes via a 3-step, ethylation, nitration, reduction sequence.²

These new primary anilines have been used for the preparation of Schiff base ligands. In spite of the steric crowding in the latter compounds, they readily form complexes with platinum and palladium which are currently being assessed for their catalytic activity in carbon-carbon coupling reactions.



acknowledgements: The financial support of the Greek General Secretariat for Science and Technology is gratefully acknowledged.

* B. R. Steele, C. G. Screttas, *J. Am. Chem. Soc.* **2000**, *122*, 2391.

S. Georgakopoulos, G. A. Georgakopoulos, S. Steele, B. R. *Tetrahedron Lett.* **2005**, *46*, 2469.