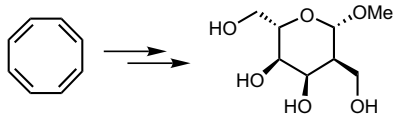
ELSEVIER

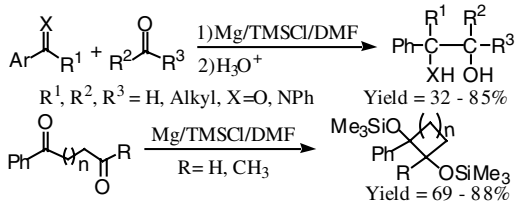
Tetrahedron Letters

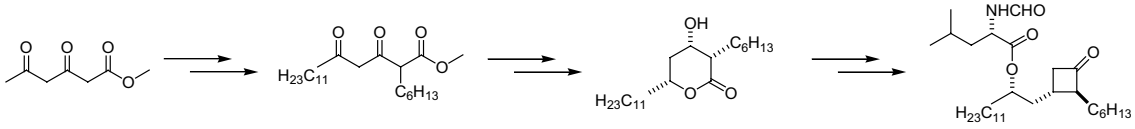
Tetrahedron Letters Vol. 45, No. 20, 2004

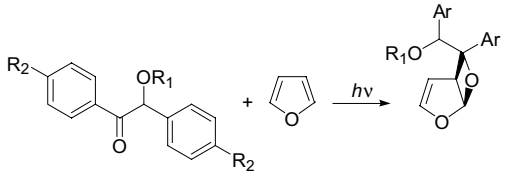
Contents

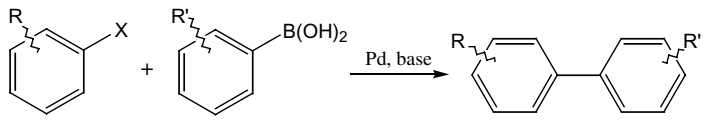
COMMUNICATIONS



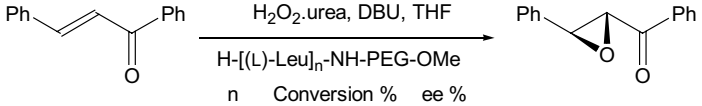




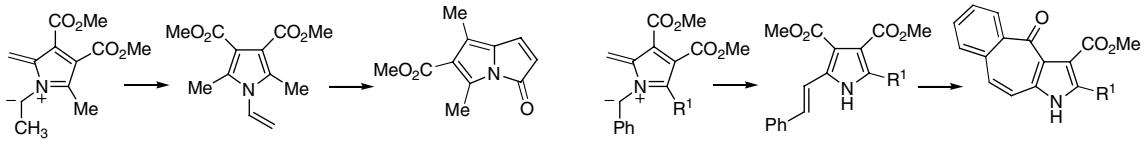


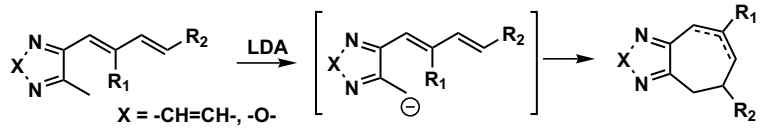


The Pd(0)–Y zeolite showed high activity in the Suzuki cross-coupling reactions of aryl bromides without added ligands. The type of base and organic solvent were found to be critical for the efficiency of the reaction. The presence of water was essential within the reaction medium. The coupling reactions occurred on the external surface of the zeolite. The catalyst is reusable.

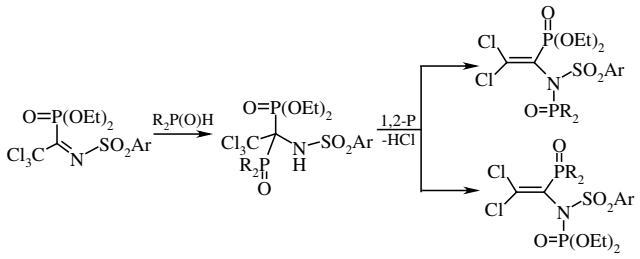


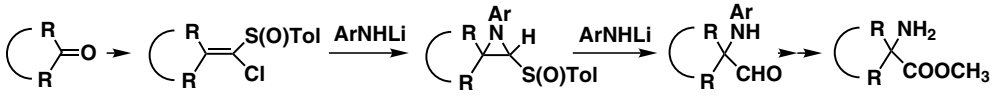
n	Conversion %	ee %
4	6	42
5	10	87
6	28	95
7	31	96
15	95	97

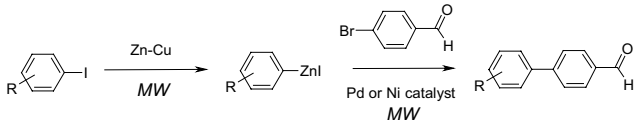


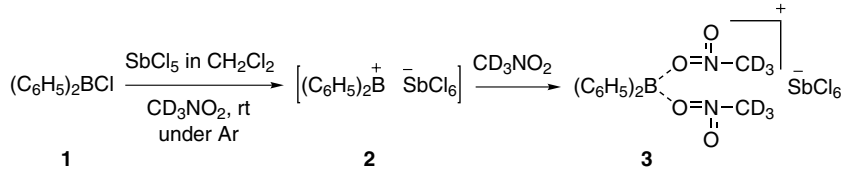


Title dienes underwent intramolecular cyclization by the action of LDA to give the corresponding heteroaromatics fused with seven-membered ring.

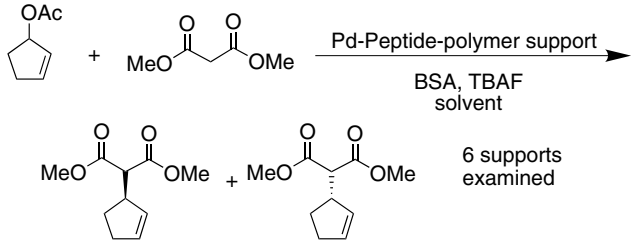


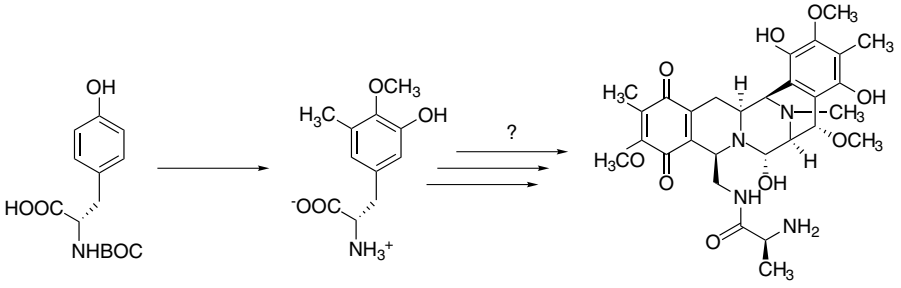


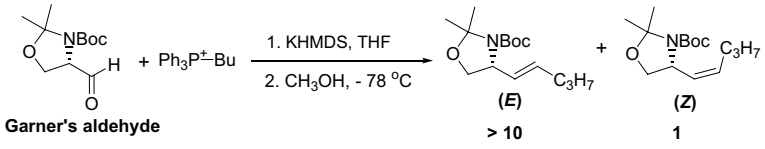




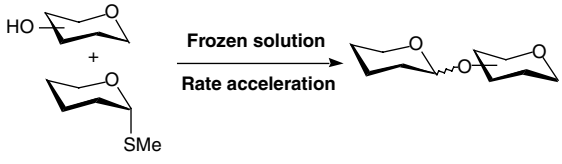
A novel boron cationic reaction of diphenylchloroborane **1** has been investigated by using the strong Lewis acid $SbCl_5$ in nitromethane.



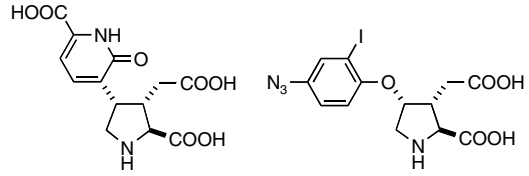




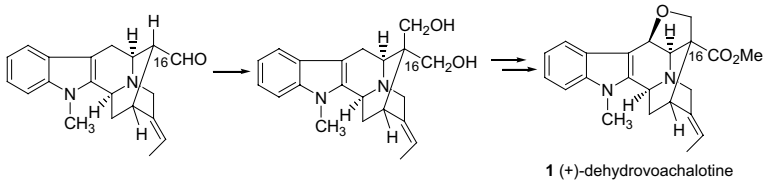
In the Wittig reactions of Garner's aldehyde with certain nonstabilized ylides, addition of a large excess of methanol produced the (*E*)-alkenes as a major product even under the salt-free conditions.



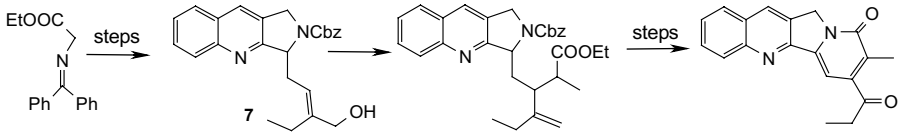
Enormous rate acceleration of O-glycosylation was observed in *p*-xylene at freezing temperature.



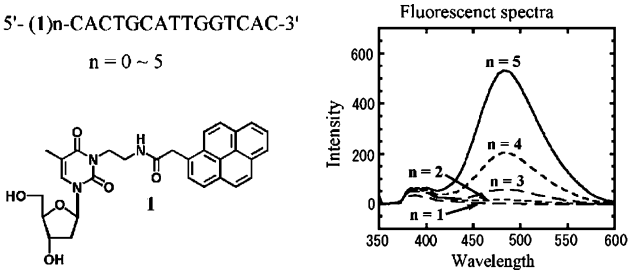
acromelic acid A



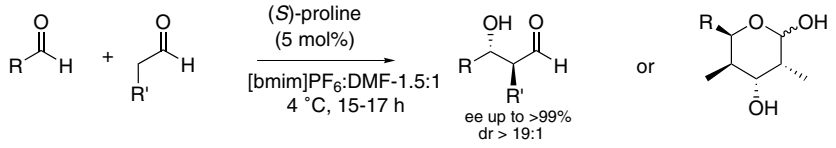
1 (+)-dehydrovoachalotine

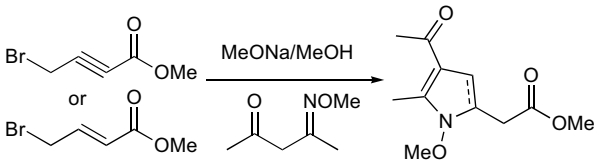


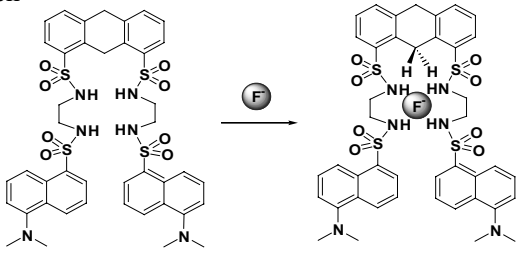
A novel, efficient total synthesis of the naturally occurring antiviral nothapodytine B (**2**, mappicine ketone) is reported. The approach is based on the successful implementation of the Johnson orthoester rearrangement of allylic alcohol **7** for assembly of a pyridone D ring precursor with the necessary functionalities. Nothapodytine B is converted into mappicine by $NaBH_4$ reduction.



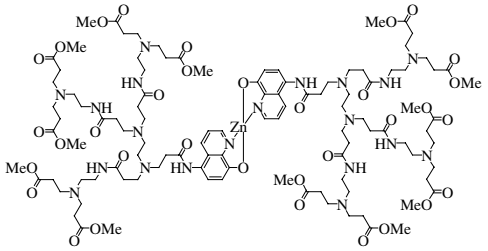
Multi-pyrene clusters arrayed along DNA backbones exhibited significant excimer fluorescence of which intensity increased as the number of pyrene residues is increased.



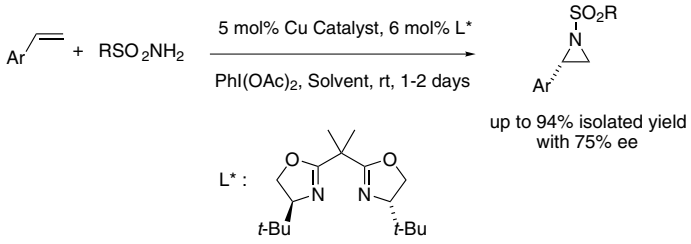


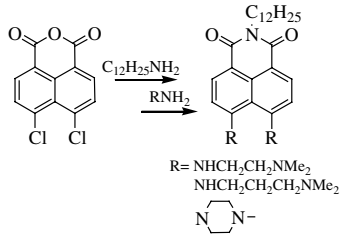


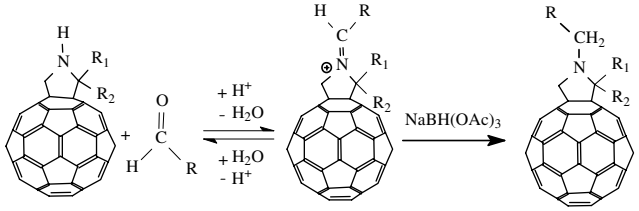
A new fluorescent chemosensor based on a tetra-sulfonamide derivative was synthesized, which displayed high selective fluorescent effects on the fluoride ion over other halides.



A series of dendrons emanating from 8-hydroxyquinoline have been synthesized and their coordination with Zn(II) was investigated.







Reductive amination using sodium triacetoxyborohydride efficiently afforded *N*-alkylated [60]fulleropyrrolidines from *N*-unsubstituted [60]fulleropyrrolidines.

OTHER CONTENTS

*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

Indexed/Abstracted in: AGRICOLA, Beilstein, BIOSIS Previews, CAB Abstracts, Chemical Abstracts, Chemical Engineering and Biotechnology Abstracts, Current Biotechnology Abstracts, Current Contents: Life Sciences, Current Contents: Physical, Chemical and Earth Sciences, Current Contents Search, Derwent Drug File, Ei Compendex, EMBASE/Excerpta Medica, Medline, PASCAL, Research Alert, Science Citation Index, SciSearch

ELSEVIER

ISSN 0040-4039