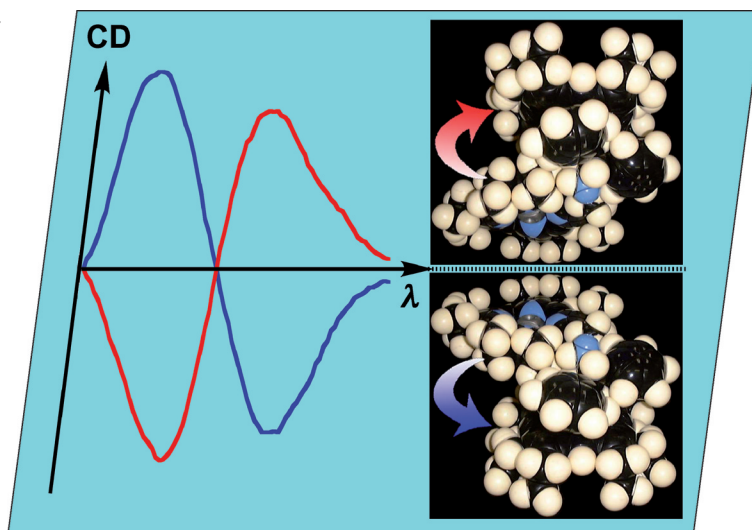




A union formed by chemical societies in Europe (ChemPubSoc Europe) has taken the significant step into the future by merging their traditional journals, to form two leading chemistry journals, the *European Journal of Inorganic Chemistry* and the *European Journal of Organic Chemistry*. Three further members of ChemPubSoc Europe (Austria, Czech Republic and Sweden) are Associates of the two journals.

COVER PICTURE

The cover picture shows a phenomenon of supramolecular chirogenesis in an achiral bisporphyrinoid host upon noncovalent interaction with chiral antipodal guests. This host–guest interaction results in the phenomenon of chirality transfer followed by the induction of circular dichroism in the porphyrin electronic transitions. Details are presented in the Microreview by V. Borovkov and Y. Inoue on p. 189ff.



MICROREVIEW

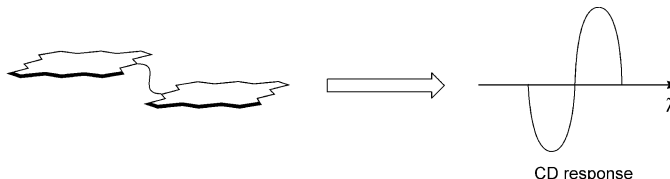
Bisporphyrinoids and Chirogenesis

V. Borovkov,* Y. Inoue* 189–197



A Versatile Bisporphyrinoid Motif for Supramolecular Chirogenesis

Keywords: Porphyrinoids / Chirality / Circular dichroism / Supramolecular chemistry / Host–guest systems



Bisporphyrinoids, thanks to their simplicity and spectral, chemical, and physicochemical properties, have been found to be the

most universal and versatile structural motif yet known for investigation of supramolecular chirogenesis.

SHORT COMMUNICATIONS

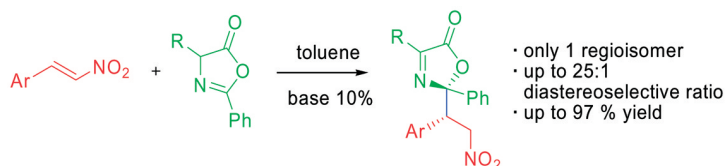
Organocatalysis

A.-N. Balaguer, X. Companyó, T. Calvet,
M. Font-Bardía, A. Moyano,*
R. Rios* 199–203



Highly Regio- and Diastereoselective Oxazol-5-one Addition to Nitrostyrenes

Keywords: Diastereoselective catalysis / Organocatalysis / Heterocycles / Michael addition / Nitrostyrenes / N,O-Aminals



Addition of 4-alkyl-2-phenyloxazol-5-ones to nitrostyrenes takes place exclusively at

the C-2 position of oxazol-5-one with very high diastereoselectivity

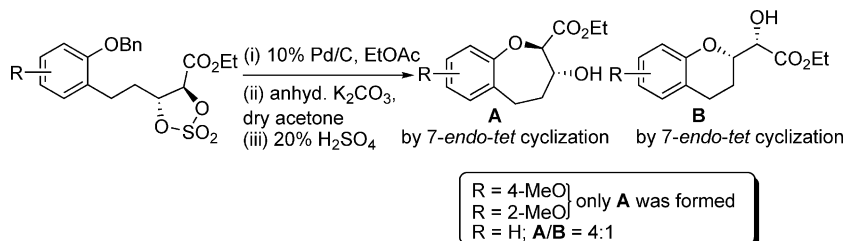
Enantioselective Synthesis

S. K. Das, S. K. Dinda,
G. Panda* 204–207



Enantioselective Synthesis of Functionalized 1-Benzoxepines by Phenoxide Ion Mediated 7-endo-tet Carbocyclization of Cyclic Sulfates

Keywords: 1-Benzoxepine / Sharpless asymmetric dihydroxylation / Cyclic sulfate



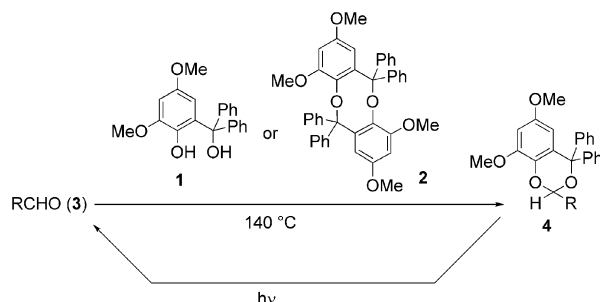
In this study, we have utilized for the first time, a phenoxide ion mediated intramolecular 7-endo-tet ring opening reaction of

syn-2,3-dihydroxy ester derived cyclic sulfates for the new asymmetric synthesis of 2,3-disubstituted 1-benzoxepines.

P. Wang,* Y. Wang, H. Hu,
X. Liang 208–211

Installation of Photolabile Carbonyl-Protecting Groups under Neutral Conditions without Using Any Other Chemical Reagents

Keywords: Carbonyl compounds / Protecting groups / Neutral conditions / Reagent-free reactions / Photolabile groups / Solvent-free reactions



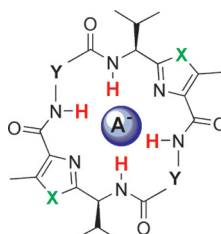
Novel green chemistry methods have been developed to install photolabile carbonyl protecting groups. With this advancement, both protection and deprotection of carbonyl compounds can be achieved under neutral conditions without using any other chemical reagents.

Novel green chemistry methods have been developed to install photolabile carbonyl protecting groups. With this advancement, both protection and deprotection of carbonyl compounds can be achieved under neutral conditions without using any other chemical reagents.

FULL PAPERS

Anion Recognition

A series of macrocyclic azole peptides was synthesized. The investigation of their ability to bind anions in DMSO shows that these cyclopeptides can act as sensitive and selective receptors for acetate and dihydrogen phosphate anions.



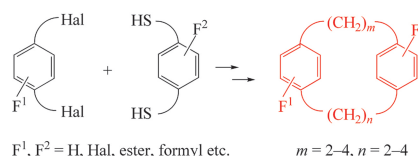
M. Schnopp, S. Ernst,
G. Haberhauer* 213–222

Anion Recognition by Neutral Macrocyclic Azole Amides

Keywords: Anions / Host–guest systems / Hydrogen bonds / Macrocyclic ligands / Receptors

Preparation of Paracyclophanes

Application of conventional methods of cyclophane chemistry (thiacyclophane formation, sulfone pyrolysis) furnishes [3.2]-, [4.2]-, [4.3]-, and [4.4]paracyclophane, respectively, as well as several derivatives of these hydrocarbons in preparatively satisfactory amounts allowing the study of the chemical properties of these layered aromatic compounds.

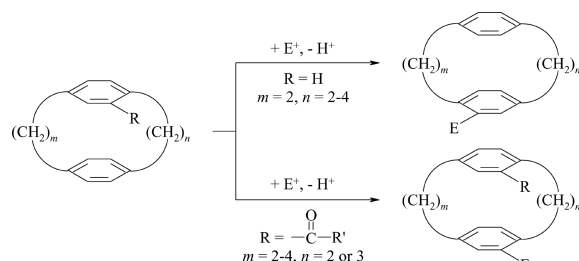


Z. Pechlivanidis, H. Hopf,*
L. Ernst 223–237

Paracyclophanes: Extending the Bridges. Synthesis

Keywords: Cyclophanes / Thiacyclophanes / [m.n]Paracyclophanes / Sulfone pyrolysis / Ring contraction

Substitution in Paracyclophanes



Z. Pechlivanidis, H. Hopf,* J. Grunenberg,
L. Ernst 238–252

Paracyclophanes: Extending the Bridges. Reactions

Keywords: Cyclophanes / [m.n]Paracyclophanes / Transannular reactions / Regioselectivity / Acylation / Aromatic substitution / Electrophilic substitution

The second benzene ring or a carbonyl-containing substituent determine the regioselectivity of electrophilic substitution reactions of [m.n]paracyclophanes. If the bridges contain less than four atoms the

new substituent E is introduced next to the shorter bridge or directly opposite (pseudogeminally) the directing group. With bridges of four or more atoms, the selectivity breaks down completely.

CONTENTS

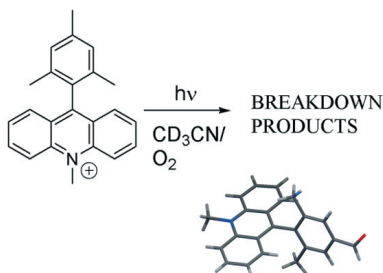
Photochemistry

A. C. Benniston,* K. J. Elliott,
R. W. Harrington, W. Clegg 253–258



On the Photochemical Stability of the 9-Mesityl-10-methylacridinium Cation

Keywords: Acridinium cation / Degradation / Oxidation / Photochemistry / NMR spectroscopy



The 9-mesityl-10-methylacridinium cation in aerated deuterated/normal acetonitrile decomposes to give several side products when continuously exposed to white light. The main breakdown product isolated by column chromatography is identified as 3,5-dimethyl-4-(10-methylacridinium)benzaldehyde. This assignment was confirmed by a single-crystal X-ray structure determination.

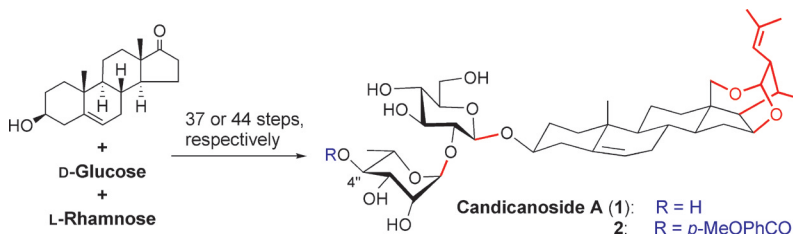
Steroid Glycosides

P. Tang, B. Yu* 259–269



Total Synthesis of Candicanoside A, a Rearranged Cholestane Disaccharide, and Its 4'-*O*-(*p*-Methoxybenzoate) Congener

Keywords: Glycosylation / Steroids / Synthesis design / Natural products



The genus *Ornithogalum* consists of garden lily plants indigenous to Southern Africa that contain steroid glycosides with remarkable cytostatic activities. Candicano-

side A is a minor congener possessing an unprecedented 24(23→22)*abeo*-cholestane aglycon.

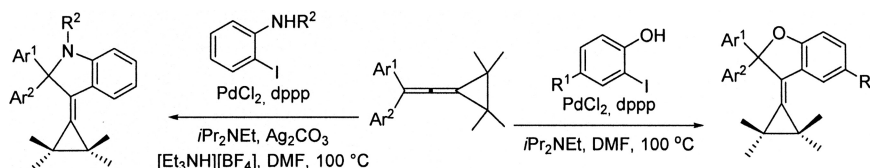
Cross-Coupling Reactions

W. Li, M. Shi* 270–274



Palladium-Catalyzed Coupling Reactions of Diarylvinylidenecyclopropanes with 2-Iodophenol and *N*-(2-Iodophenyl)-4-methylbenzenesulfonamide

Keywords: Palladium / Cross-coupling / Annulation / Heterocycles / C–C coupling



An annulation reaction of diarylvinylidenecyclopropanes and functionalized aryl halides catalyzed by palladium complexes

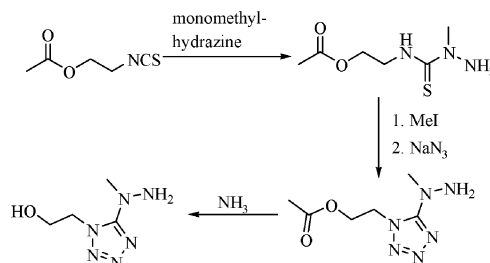
gives a convenient route to synthesize cyclopropane-containing five-membered heterocyclic derivatives.

Nitrogen-Rich Polymers

K. Banert, T. M. Klapötke,*
S. M. Sproll 275–281

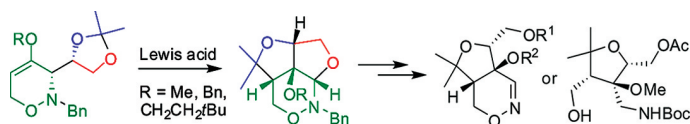
Synthesis of *N*-[1-(2-Hydroxyethyl)-1*H*-tetrazol-5-yl]-*N*-methylhydrazine as Polymeric Precursor

Keywords: Hydrazine / Nitrogen heterocycles / Nitrogen-rich compounds / Polymers



The five-step formation of *N*-[1-(2-hydroxyethyl)-1*H*-tetrazol-5-yl]-*N*-methylhydrazine starting with ethanolamine is presented. Moreover, a nitrogen-rich, ther-

mal stable polymer, with a nitrogen content of 33% was synthesized by using *N*-[1-(2-hydroxyethyl)-1*H*-tetrazol-5-yl]-*N*-methylhydrazine and hexamethylene diisocyanate.



1,3-Dioxolanyl-substituted 1,2-oxazines rearrange under Lewis acidic conditions to provide novel tricyclic products with com-

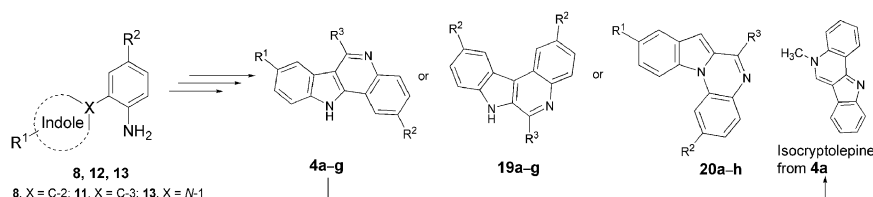
plex skeleton. Reductive transformations of these tricycles allow the synthesis of a range of enantiopure heterocycles.

F. Pfengle, A. Al-Harrasi, I. Brüdgam, H.-U. Reißig* 282–291

Unusual Enantiopure Heterocyclic Skeletons by Lewis Acid Promoted Rearrangements of 1,3-Dioxolanyl-Substituted 1,2-Oxazines

Keywords: Heterocycles / 1,2-Oxazines / Reduction / Furans / Hydrogenation / 1,2-Alkyl shift

Cyclization



A modified Pictet–Spengler reaction has been applied to generate libraries based on

three structural variants of the isocryptolepine alkaloid.

P. K. Agarwal, D. Sawant, S. Sharma, B. Kundu* 292–303

New Route to the Synthesis of the Isocryptolepine Alkaloid and Its Related Skeletons Using a Modified Pictet–Spengler Reaction

Keywords: Cyclization / Natural products / Polycycles / Nitrogen heterocycles

* Author to whom correspondence should be addressed.

 Supporting information on the WWW (see article for access details).