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Perkin Communications

1 Auxiliary accelerated reactions: catalytic hydrogenation

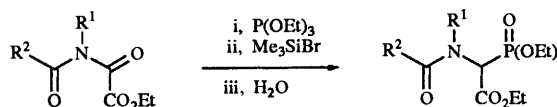
Andrew D. Westwell and
 Jonathan M. J. Williams



In competition experiments between **3** and **7** under conditions of iridium catalysed hydrogenation the pyridyl substrate **7** reacts much more quickly than the phenyl substrate **3**; this is in contrast to the rates of non-competitive hydrogenation where **3** is more reactive

3 Novel approach to the synthesis of α -alkoxycarbonyl α -aminophosphonic esters based on a facile transformation of phosphoranes to phosphonic esters

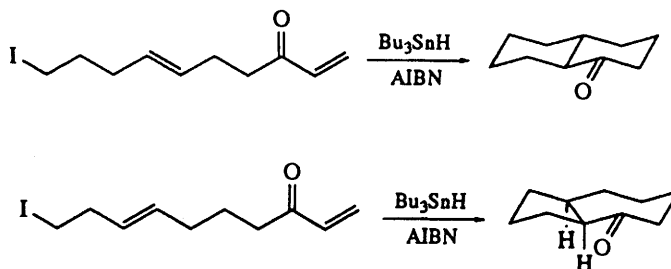
Masahiko Seki, Kazuhiko Kondo and
 Tameo Iwasaki

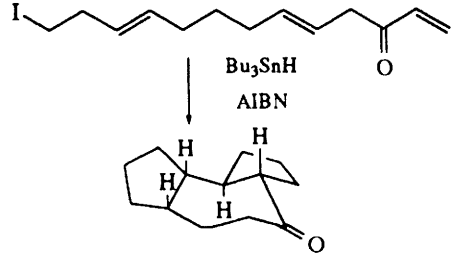
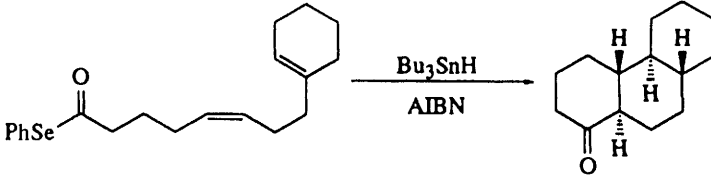
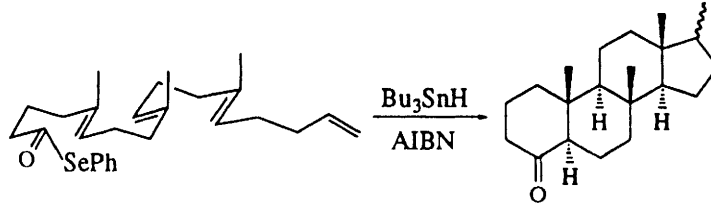
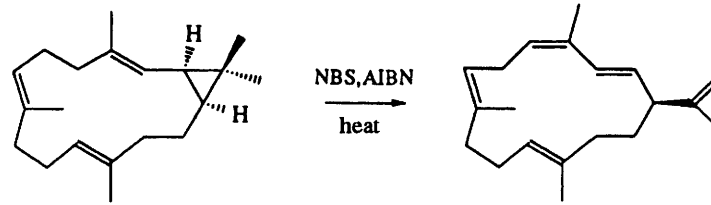
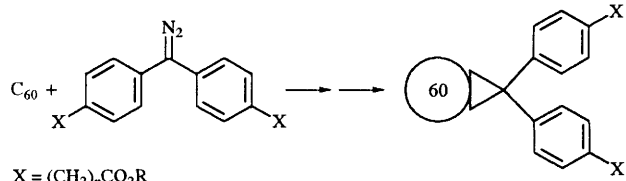
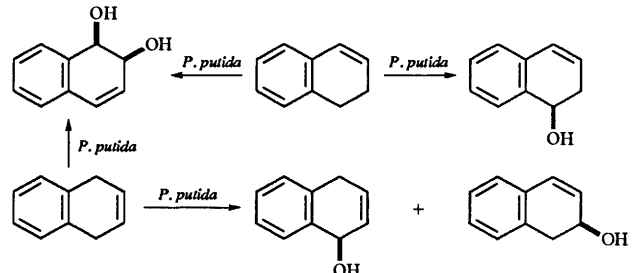


Articles

7 Cascade radical mediated macrocyclisation-transannulation reactions leading to ring-fused bicycles

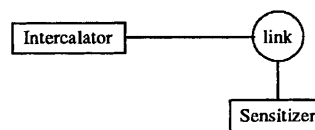
Gerald Pattenden, Allison J. Smithies, David
 Tapolczay and Daryl S. Walter



<p>21 A cascade radical macrocyclisation–transannulation approach towards the construction of ring-fused tricycles and polycycles</p> <p>Michael J. Begley, Gerald Pattenden, Allison Smithies, David Tapolczay and Daryl S. Walter</p>	
<p>31 Consecutive 6-endo trigonal cyclisations from polyene acyl radical intermediates leading to decalone and perhydrophenanthrone ring constructions</p> <p>Ligong Chen, G. Bryon Gill, Gerald Pattenden and Hourii Simonian</p>	
<p>45 Acyl radical-mediated polyene cyclisations directed towards steroid ring synthesis</p> <p>Andrei Batsanov, Ligong Chen, G. Bryon Gill and Gerald Pattenden</p>	
<p>57 Concise syntheses of cembrenes based on radical-mediated vinylcyclopropane ring-opening reactions in casbene</p> <p>Gerald Pattenden and Allison J. Smithies</p>	
<p>63 Synthesis and solubility properties of C₆₀ fullerene derivatives bearing carboxy groups</p> <p>Hideo Tomioka and Katsutoshi Yamamoto</p>	 <p>X = (CH₂)_nCO₂R n = 0, 1 R = Bu^t, H</p>
<p>67 Dioxygenase-catalysed oxidation of dihydronaphthalenes to yield arene hydrate and cis-dihydro naphthalenediols</p> <p>Derek R. Boyd, Narain D. Sharma, Nuala A. Kerley, R. Austin S. McMordie, Gary N. Sheldrake, Paul Williams and Howard Dalton</p>	

75 Preparation of some new intercalating europium(III) sensitizers

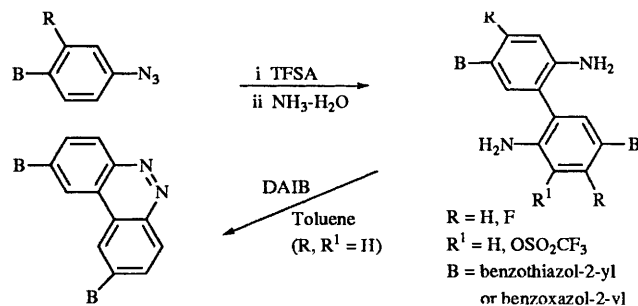
Stephen T. Mullins, Peter G. Sammes, Richard M. West and Gokhan Yahioğlu



The synthesis of two Eu^{III} sensitizers linked to an intercalator group is described

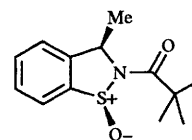
83 Antitumour benzothiazoles. Part 2. Formation of 2,2'-diaminobiphenyls from the decomposition of 2-(4-azidophenyl)benzazoles in trifluoromethanesulfonic acid

Malcolm F. G. Stevens, Dong-Fang Shi and Angeles Castro



95 Recoverable chiral sulfoxides for asymmetric synthesis: application to stereoselective carbonyl reduction and the asymmetric synthesis of allylic alcohols

Roger J. Butlin, Ian D. Linney, Mary F. Mahon, Heather Tye and Martin Wills

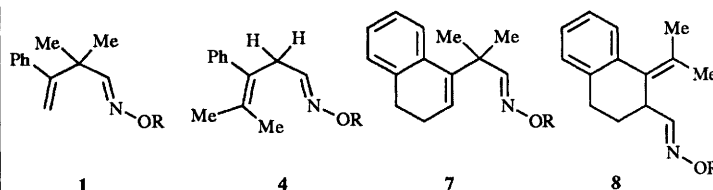


S_(S)R-(+)-cis-3

Compound 3 has been employed for the asymmetric synthesis of allylic alcohols

107 A study on the scope of the photochemical 1,3-migration of oximino groups in β,γ-unsaturated oximes and oxime derivatives

Diego Armesto, Mar G. Gallego, William M. Horspool and Ana Ramos



1a = 4a = 7a = 8a: R = COMe
1b = 4b = 7b = 8b: R = H

Sensitized irradiation of 1-aza-1,4-dienes 1 and 7 with phenyl substitution at C-4 yields the products 4 and 8 resulting from 1,3-migration of the C=N function, while in molecules with a different substitution pattern the rearrangement is not observed

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Forthcoming Articles in *Perkin Transactions 1*

Reaction of *in situ* generated α -silylated allylic phosphonate carbanions with aldehydes. An unexpected cyclisation reaction
N. Collignon, H. Al-Badri and E. About-Jaudet

Preparation of optically active 3-substituted piperidines *via* ring expansion: synthesis of 4-amino- and 4-fluoro-1,5-diimino-1,4,5-trideoxy-D-ribitol and 1,5-diimino-1,5-dideoxy-D-ribitol **D-K. Kim, G. Kim and Y-W. Kim**

Facile conversion of perfluoroacyl fluorides into other acyl halides **H. Fukaya, T. Matsumoto, E. Hayashi, Y. Hayakawa and T. Abe**

Elemental fluorine. Part 1. Synthesis of fluoroaromatic compounds
R.D. Chambers, C.J. Skinner, J. Hutchinson and J. Thomson

Reactions of 1-acylamino-1-trimethylsilyloxyalkanes: versatile precursors to acylimines
A.P. Johnson, R.W.A. Luke and A.N. Boa

Synthesis of 1-acylamino-1-trimethylsilyloxyalkanes by trimethylsilyl trifluoromethanesulfonate-catalysed addition of bis(trimethylsilyl)amides to aldehydes **A.P. Johnson, R.W.A. Luke, R.W. Steel and A.N. Boa**

Synthesis and reactions of *N,N*-bis(1-trimethylsilyloxyalkyl)formamides: preparation of (+)-argemonine and (+)-norargemonine **A.P. Johnson, R.W.A. Luke, G. Singh and A.N. Boa**

Novel indole ring formation by thermolysis of 2-(*N*-acylamino)benzylphosphonium salts. Effective synthesis of 2-trifluoromethylindoles **T. Imanishi, K. Miyashita, K. Kondoh, K. Tsuchiya and H. Miyabe**

Enantioselective synthesis of 2-substituted 4-aminobutanoic acid (GABA) analogues *via* cyanomethylation of chiral enolates
P.B. Wyatt, S. Azam and A.A. D'Souza

Lithium bromide as a new catalyst for carbon-carbon bond formation in the solid state
D. Prajapati, K.C. Lekhok, J.S. Sandhu and A.C. Ghosh

Product diversity in cyclisation of maleamic acids: the imide-isoimide dichotomy
J.E.T. Corrie, M.H. Moore and G.D. Wilson

Pyryliumolates. Part 2. Generation of and cycloaddition reactions with isoxazole annulated pyryliumolates
W. Friedrichsen and C. Plug

D-Ring aromatic phytosteroids; a model for biogenesis *via* carbon radical rearrangement
S.P. Green and D.A. Whiting

Diastereoselective addition of allylmetal compounds to imines derived from (*S*)-1-phenylethanamine
G. Alvaro, C. Boga, D. Savoia and A. Umani-Ronchi

Synthesis of inverto-yuehchukene and its 10-(indol-3'-yl) isomer **K-F. Cheng and M-K. Cheung**

Solid-phase glycopeptide synthesis of tyrosine glycosylated glycogenin fragments as substrates for glucosylation by glycogenin **A.M. Jansson, K.J. Jensen, M. Meldal, J. Lomako, W.M. Lomako, C.E. Olsen and K. Bock**

Selective deprotection of phenacyl, benzyl and methyl esters of *N*-protected amino acids, dipeptides and *N*-protected amino acids benzyl ester linked to resins with bis(tributyltin) oxide **C.J. Salomon, E.G. Mata and O.A. Mascaretti**

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Synthesis of methyl 4-aryl-6-methyl-4,7-dihydropyrazolo[3,4-*b*]pyridine-5-carboxylates from 3,4-dihydropyrid-2(1*H*)-ones
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Forthcoming articles in *Contemporary Organic Synthesis*

Stoichiometric applications of organotransition metal complexes in organic synthesis

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The enediyne and dienediyne based antitumour antibiotics. Methodology and strategies for total synthesis and construction of bio-active analogues. Part 1

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Alcohols, ethers and phenols

C S Hau, A N Jarvis and J B Sweeney

Saturated and partially unsaturated carbocycles

C D J Boden and G Pattenden

The discovery of fluconazole

K Richardson

Organic halides

S P Marsden

The enediyne and dienediyne based antitumour antibiotics. Methodology and strategies for total synthesis and construction of bio-active analogues. Part 2

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P G Sammes and G Yahioğlu

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β -Phenylethylamines and isoquinoline alkaloids

K W Bentley

The biosynthesis of plant alkaloids and nitrogenous microbial metabolites

R B Herbert

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D J Faulkner

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J R Lewis