

JOURNAL OF THE CHEMICAL SOCIETY

Perkin Transactions 1

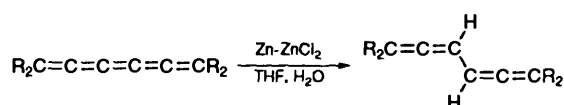
Organic and Bio-organic Chemistry

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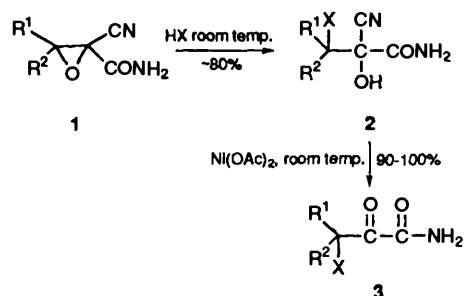
- 2043 A new synthetic route to 1,1,6,6-tetraalkylhexa-1,2,4,5-tetraenes by selective reduction of tetraalkylhexapentaenes with Zn-ZnCl₂-H₂O

Fumio Toda, Koichi Tanaka and Hidetoshi Nawata



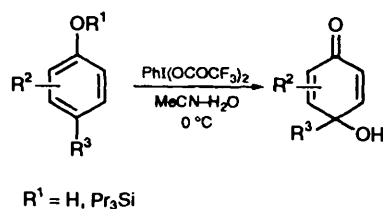
- 2045 A simple and efficient way to substituted 3-halogenopyruvamides from substituted α -carbamoyl- α -cyanooxiranes

Alenka Majcen-Le Maréchal, Janja Pavc, Albert Robert and Philippe Le Grel



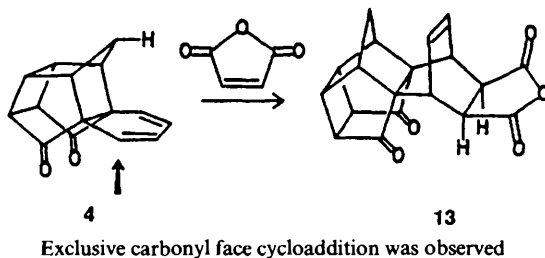
- 2047 A simple and efficient procedure for the preparation of *p*-quinols by hypervalent iodine oxidation of phenols and phenol tripropylsilyl ethers

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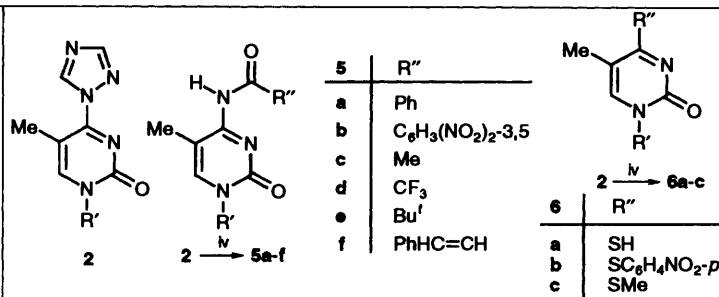


- 2049 π -Facial stereoselectivities in Diels-Alder cycloadditions to a dissymmetric cyclohexa-1,3-diene moiety in a novel, caged polycyclic framework

Goverdhan Mehta, S. Padma, S. Hari Krishna Reddy and Munirathinam Nethaji



- 2051 Facile nucleophilic displacement on a 4-triazolypyrimidine deoxynucleoside: single-step synthesis of *N*-acylated 5-methyldeoxycytidines

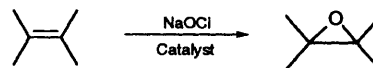


Michel Perbost and Yogesh S. Sanghvi

Articles

- 2053 5,10,15,20-Tetrakisaryl- and 2,3,7,8,12,13,17,18-octahalogeno-5,10,15,20-tetrakisarylporphyrins and their metal complexes as catalysts in hypochlorite epoxidations

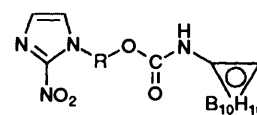
António M. d'A. Rocha Gonsalves, Mariette M. Pereira, Arménio C. Serra, Robert A. W. Johnstone and M. Luisa P. G. Nunes



Catalyst: [5,10,15,20-tetrakis(dichlorophenyl)porphyrinato]-manganese(III) or [2,3,7,8,12,13,17,18-octachloro(tetrakis(dichlorophenyl)porphyrinato)manganese(III)]

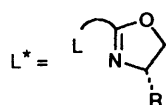
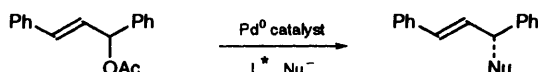
- 2059 Tumour-targetted boranes. Part 3. Synthesis of carbamate-linked nitroimidazolyl carboranes designed for boron neutron capture therapy of cancer

Martin Scobie and Michael D. Threadgill



- 2065 Palladium-catalysed asymmetric allylic substitution: a ligand design incorporating steric and electronic effects

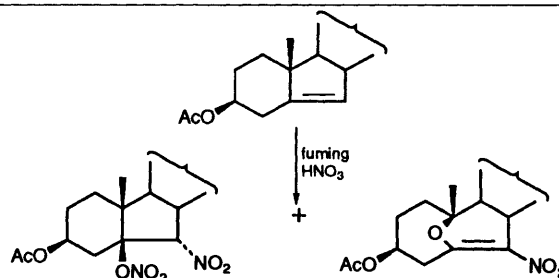
Joanne V. Allen, Steven J. Coote, Graham J. Dawson, Christopher G. Frost, Christopher J. Martin and Jonathon M. J. Williams



Palladium-catalysed allylic substitution has been achieved with high enantioselectivity using 4,5-dihydro-1,3-oxazole-based ligands

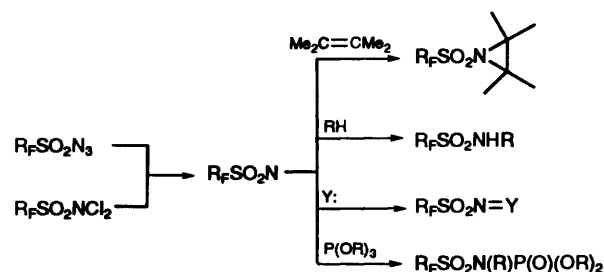
- 2073 A rearrangement in the nitration of 3β,17β-diacetoxy-7-norandrost-5-ene

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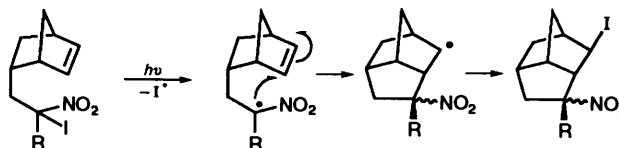
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Shi-Zheng Zhu



2083 **ω -Alkenyl α -nitroalkyl radicals. Part 3. Radical chain reactions of ω -alkenyl α -halogenonitroalkanes**

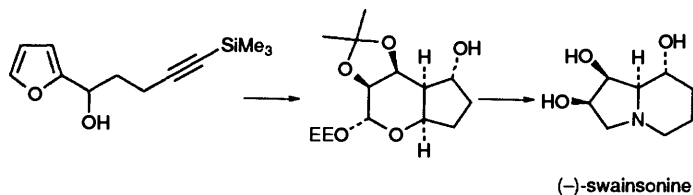
W. Russell Bowman, David S. Brown, Catherine A. Burns and David Crosby



ω -Alkenyl α -nitroalkyl radicals, generated by photolysis of α -iodonitroalkanes, underwent cyclisation by an atom transfer mechanism; cyclisation did not take place in $S_{RN}1$ reactions and BNAH reductions

2091 **Enantioselective synthesis of indolizidine alkaloids: formal synthesis of (-)-swainsonine and (+)-pumiliotoxin 251D**

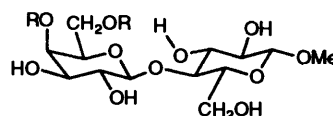
Toshio Honda, Michiyasu Hoshi, Kazuo Kanai and Masayoshi Tsubuki



(-)-swainsonine

2103 **Carbohydrate-derived surfactants: synthesis and phase behaviour of methyl 4',6'-di-*O*-alkyl- β -lactosides**

Virginie Langlois and J. Michael Williams

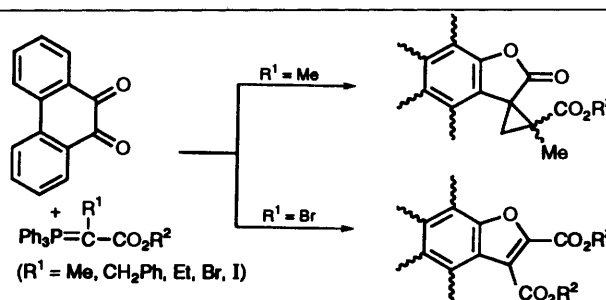


R = hexyl, octyl

Synthesis, solubility and lyotropic phase behaviour

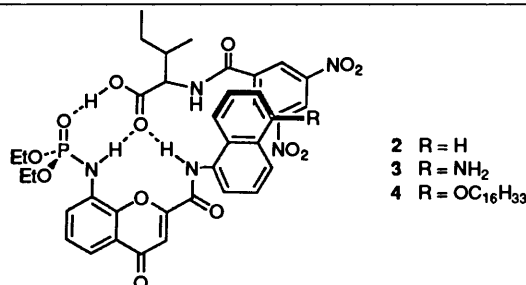
2107 **Reactions of α -alkyl- or α -halogeno-alkoxycarbonylmethylene(triphenyl)phosphoranes with phenanthrene-9,10-quinone. Synthesis of phenanthro[9,10-*b*]furan derivatives**

Demetrios N. Nicolaidis, Konstantinos E. Litinas, Demetrios A. Lefkaditis, Spyros G. Adamopoulos, C. P. Raptopoulou and Aris Terzis



2113 **Chromenone derivatives as receptors for *N*-benzoylamino acids**

César Raposo, Mercedes Martín, M^a Luisa Mussons, Mercedes Crego, Josefa Anaya, M^a Cruz Caballero and Joaquín R. Morán

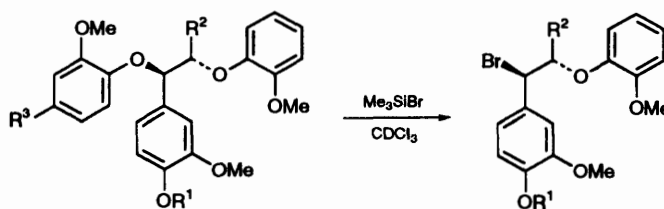


2 R = H
3 R = NH₂
4 R = OC₁₆H₃₃

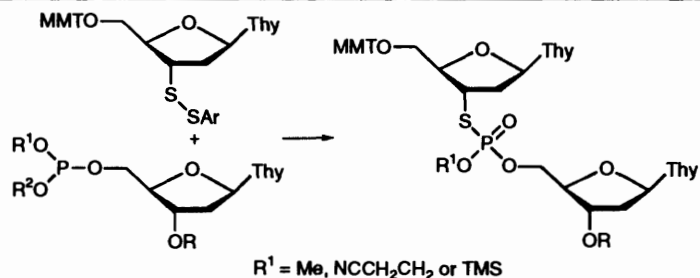
Chromenone derivatives 2–4 complex *N*-benzoylamino acids in CDCl₃ by hydrogen bonds, π -stacking and charge transfer effects

2117 Stereoselectivity in benzyl 1,2-diaryl ether cleavage by bromotrimethylsilane

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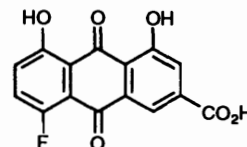
2123 Application of the Michaelis–Arbusov reaction to the synthesis of internucleoside 3'-*S*-phosphorothiolate linkages

Xiang Li, Gerard K. Scott, Anthony D. Baxter, Roger J. Taylor, Joseph S. Vyle and Richard Cosstick

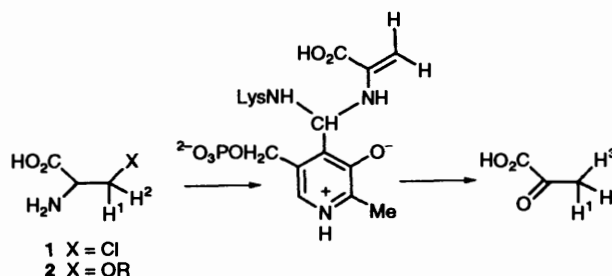


2131 Synthesis of 8-fluororhein

W. Martin Owton

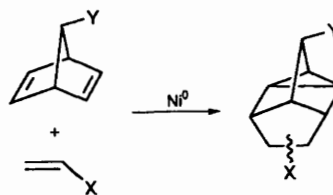
2137 Stereochemistry of conversion of the suicide substrates β -chloro-D-alanine and D- and L-serine *O*-sulfates into pyruvate by D-amino acid aminotransferase and by L-aspartate aminotransferase

B. Svante Axelsson, Heinz G. Floss, Sungsook Lee, Ashraf Saeed, Philip A. Spencer and Douglas W. Young



2143 Stereoselectivity in the homo-Diels–Alder reaction: effect of a remote 7-substituent on nickel-catalysed cycloadditions

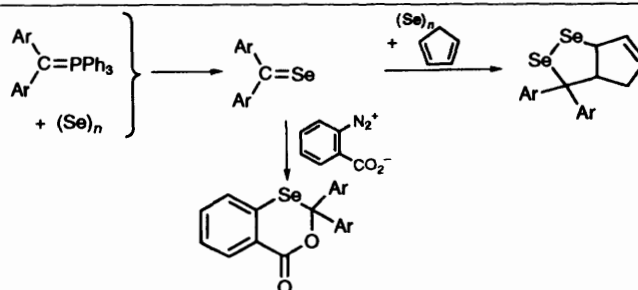
Mark Lautens, William Tam and Louise G. Edwards



7-Substituted norbornadienes have been shown to undergo highly stereoselective homo-Diels–Alder reactions with different dienophiles. Excellent *exo/endo* selectivity and an increasing *anti/syn* selectivity was observed as the electronegativity of the 7-substituent increased

2151 Isolation, structure and reaction of selenobenzophenones. X-Ray molecular structure of 4,4'-dimethoxyseleobenzophenone and of 4,4'-diphenyl-2,3-diselenabicyclo[3.3.0]oct-7-ene

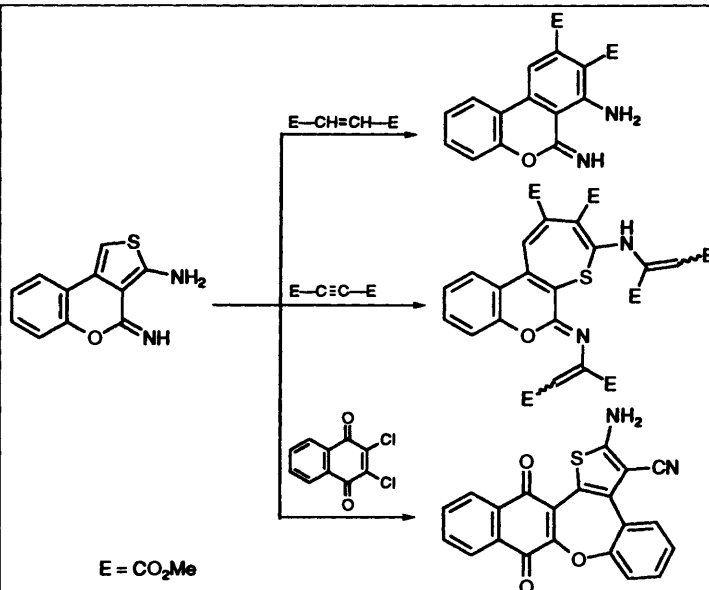
Kentarō Okuma, Kazuki Kojima, Isao Kaneko, Yoshikazu Tsujimoto, Hiroshi Ohta and Yoshinobu Yokomori



2161 Direct synthesis of 3-(fluoroalkyl)pyrazoles from polyfluoroalkyl aldehydes	<p> $R_fCF_2I \longrightarrow [R_fCF_2CH_2CHO] \longrightarrow$ </p> <p> $I[CF_2]_nI \longrightarrow [OHCCH_2[CF_2]_nCH_2CHO] \longrightarrow$ </p> <p> $CF_3CXY_2 \longrightarrow [CF_3CXYCH_2CHO] \longrightarrow$ </p>
Xiao-Qing Tang and Chang-Ming Hu	
2165 Secondary mould metabolites. Part 47. Isolation and structure elucidation of clavilactones A–C, new metabolites from the fungus <i>Clitocybe clavipes</i>	<p> 1 $R^1 = R^2 = H$ 2 $R^1 = Ac, R^2 = H$ 3 $R^1 = Me, R^2 = H$ 4 1,4-dioxo, $R^2 = H$ 5 $R^1 = H, R^2 = OH$ </p>
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2169 Synthesis of 2'- and 2''-O-acylated maltotriosides as potential fluorescence-quenched substrates for α-amylase	
Vito Ferro, Morten Meldal and Klaus Bock	
2177 Enantioselective preparation of alkyl alkylsulfanylmethyl sulfoxides and 4,5-dihydroisoxazoles from alkanesulfinates of 1,2:5,6-di-O-isopropylidene-D-glucose	<p>Enantiomerically pure compounds II and III are synthesized from I</p>
Yolanda Arroyo-Gómez, Juan A. López-Sastre, Justo F. Rodríguez-Amo, Mercedes Santos-García and María A. Sanz-Tejedor	
2181 Competition among 1,2- and 1,3-acyl shifts, and reduction reactions, in the UV irradiation of cyclopent-2-enones bearing a C-3 terminal-alkyne chain	<p>22% 56%</p>
Ines Mancini, Marino Cavazza, Graziano Guella and Francesco Pietra	UV irradiation of 3-(pent-4'-ynyl)cyclopent-2-enone gave mainly reduction of the [2 + 2] photocycloadduct (which incorporated deuterium at C-1 and C-3 in CD_3CN) and a 1,2-acyl shift
2187 Synthesis of conduritols A, (+)-C and (–)-C from D-galactose	<p>D-Galactose \longrightarrow Conduritols A, (+)-C, (–)-C</p>
Hari Babu Mereyala and Bapu Reddy Gaddam	

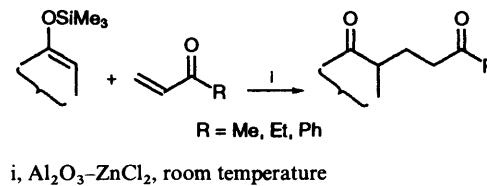
2191 [4 + 2]-Cycloadditions of 3-amino-4-imino-4*H*-thieno[3,4-*c*][1]benzopyran with some selected dienophiles

E. Nyiondi-Bonguen, E. Sopbué Fondjo, Z. Taneé Fomum and Dietrich Döpp



2197 Surface-mediated solid phase reaction. Part 6. Mukaiyama–Michael addition of silyl enol ethers to alkyl vinyl ketones on the surface of alumina: a simple and convenient method for the synthesis of 1,5-diketones

Brindaban C. Ranu, Manika Saha and Sanjay Bhar



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NOTE: An asterisk in the heading of each paper indicates the author who is to receive any correspondence.

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Polyaza Heterocycles. Part 2. Nucleophilic Substitution of Halogens in Halogenoquinoxalino[2,3-*c*]cinnolines
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G. Queguiner, J.-Y. Lenoir and P. Ribereau

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[1^{*N*},3^{*E*}]-Bifunctional Phosphordiamidites and the Diastereoselective Phosphonylation of Aldehydes. Controlling, Elucidating and Rationalising the Stereochemical Course of the Asymmetric Abramov Reaction
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