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COVER PICTURE

The cover picture shows the ketol soaring above the navel of an oriental belly dancer, which smells not ‘*like teen spirit*’ but actually *like patchouli*. This is symbolized by the colors the sunlight is refracted into, the colors of the cashmere fabrics with which patchouli leaves first came to Europe. As bifunctional compounds of these molecular dimensions were known to be odorless, the pronounced patchouli odor is indeed very surprising. This ketol is a superstructure of (—)-patchoulol and a recently discovered high-impact spirocyclic patchouli odorant, and its odor proves this superposition analysis to be valid. Its total synthesis was accomplished in 13 steps with a total yield of 7% from the inexpensive commercial odorant Cyclal C, and features a novel intramolecular Prins reaction. This unusual access to the tricyclic homoisotwistane skeleton constitutes, in addition, a new formal total synthesis of patchoulol. All details are discussed in the article by P. Kraft et al. on p. 1403 ff.



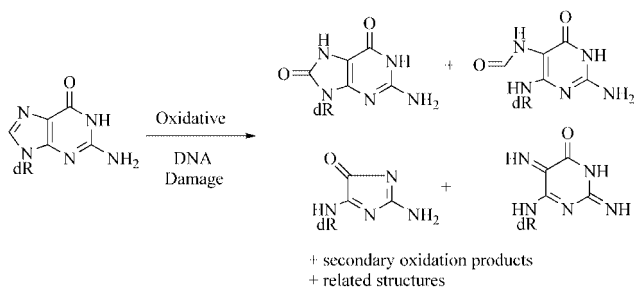
MICROREVIEW

Contents

1351 T. Gimisis,* C. Cismaş

Isolation, Characterization, and Independent Synthesis of Guanine Oxidation Products

Keywords: Bioorganic chemistry / DNA damage / Guanine / Nucleobases / Oxidation



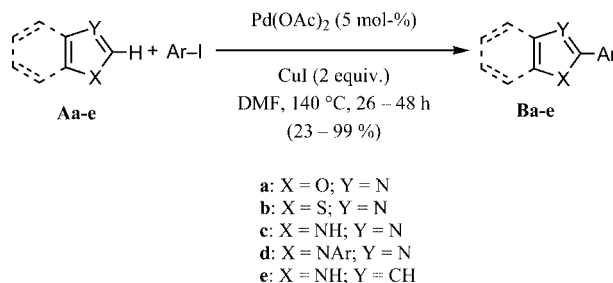
SHORT COMMUNICATIONS

1379 F. Bellina,* S. Cauteruccio, R. Rossi*



Palladium- and Copper-Mediated Direct C-2 Arylation of Azoles – Including Free (NH)-Imidazole, -Benzimidazole and -Indole – Under Base-Free and Ligandless Conditions

Keywords: C–C coupling / Synthetic methods / Regio-selectivity / Palladium / Copper

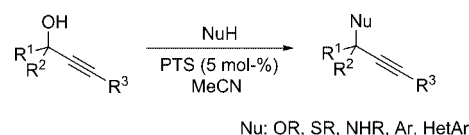


1383 R. Sanz,* A. Martínez, J. M. Álvarez-Gutiérrez, F. Rodríguez*



Metal-Free Catalytic Nucleophilic Substitution of Propargylic Alcohols

Keywords: Aromatic substitution / Homogeneous catalysis / Propargylic alcohols / Nucleophilic substitution / Synthetic methods

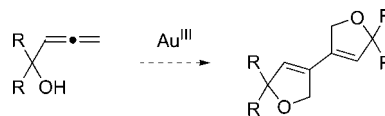


1387 A. S. K. Hashmi,* M. C. Blanco, D. Fischer, J. W. Bats



Gold Catalysis: Evidence for the In-situ Reduction of Gold(III) During the Cyclization of Allenyl Carbinols

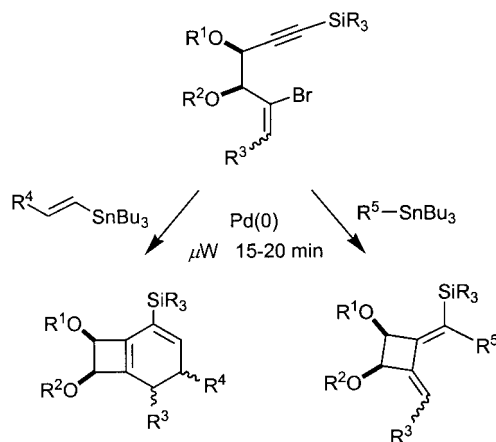
Keywords: Alkynes / Allenes / Dihydrofurans / Gold / Homogeneous catalysis



1390 C. Bour, J. Suffert*

4-*exo-dig* Cyclocarbopalladation: A Straight-forward Synthesis of Cyclobutanediols from Acyclic γ -Bromopropargylic Diols under Microwave Irradiation Conditions

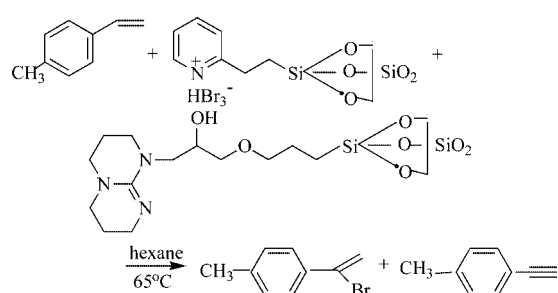
Keywords: Cyclocarbopalladation / 4-*exo-dig* cyclization / Microwaves / Bis(alkylidene)cyclobutane



1396 Y. Levin, K. Hamza, R. Abu-Reziq, J. Blum*

Sol-Gel Entrapped Pyridinium Hydrobromide Perbromide as a Recyclable Bromination Agent: Its Application to a One-Pot Bromination and Dehydrobromination Process

Keywords: Bromination / Dehydrobromination / Guanidine base / One-pot reaction / Silica sol-gel

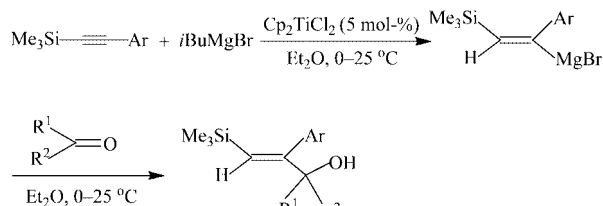


1400 M. Cai,* Z. Zhou, J. Jiang



A Facile Stereoselective Synthesis of (2*E*)-3-Silylallylic Alcohols by Hydromagnesiation of 1-Aryl-2-silylacetylenes

Keywords: Hydromagnesiation / 1-Aryl-2-silylacetylenes / Vinyl compounds / Grignard reaction / (2*E*)-Allylic alcohols / Stereoselective synthesis

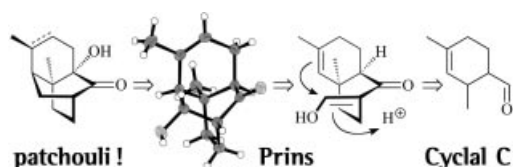


FULL PAPERS

1403 P. Kraft,* C. Weymuth, C. Nussbaumer

Total Synthesis and Olfactory Evaluation of (1*R**,3*S**,6*S**,7*S**,8*S**)-3-Hydroxy-6,8-dimethyltricyclo[5.3.1.0^{3,8}]undecan-2-one: A New Synthetic Route to the Patchoulol Skeleton

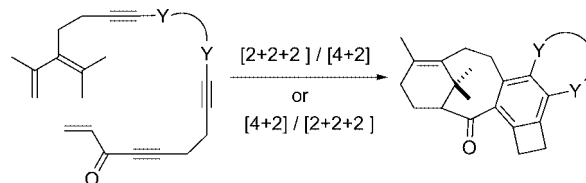
Keywords: Fused-ring systems / Olfactory properties / Patchouli / Prins reaction / Structure–activity relationships



1413 G. Chouraqui, M. Petit, P. Phansavath,
C. Aubert,* M. Malacria*

From an Acyclic, Polyunsaturated Precursor to the Polycyclic Taxane Ring System: The [4+2]/[2+2+2] and [2+2+2]/[4+2] Cyclization Strategies

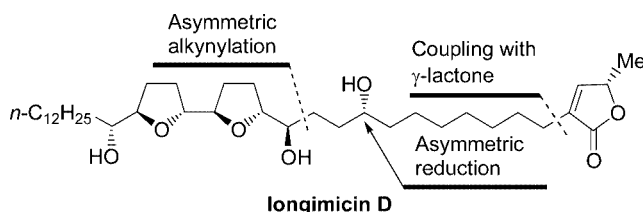
Keywords: Cobalt / Cyclization / Cyclotrimerization / Silicon tethers / Taxane



1422 H. Tominaga, N. Maezaki,* M. Yanai,
N. Kojima, D. Urabe, R. Ueki, T. Tanaka*

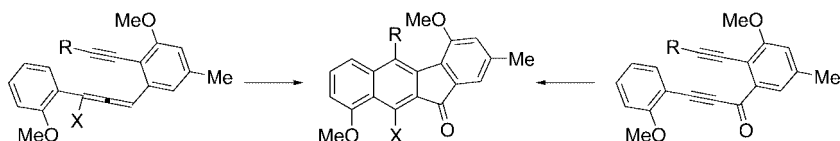
First Total Synthesis of Longimicin D

Keywords: Annonaceous acetogenins / Natural products / Total synthesis / Longimicin D



1430 E. González-Cantalapiedra, Ó. de Frutos,
C. Atienza, C. Mateo, A. M. Echavarren*

Synthesis of the Benzo[*b*]fluorene Core of the Kinamycins by Arylalkyne–Allene and Arylalkyne–Alkyne Cycloadditions

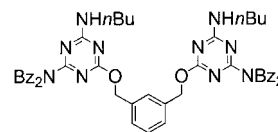


Keywords: Quinones / Cycloadditions / Alkynes / Allenes / Natural products

1444 P. V. Mason, N. R. Champness,*
S. R. Collinson, M. G. Fisher, G. Goretzki

Synthesis and Modulation of Bis(triazine)
Hydrogen-Bonding Receptors

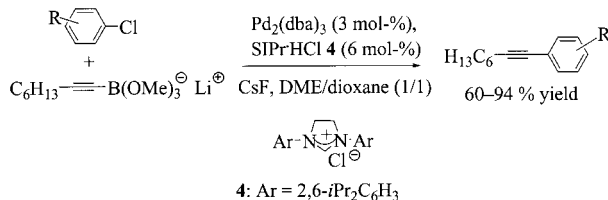
Keywords: Hydrogen-bonding receptors / Triazines /
Host–guest chemistry / Supramolecular
chemistry / Barbiturates



1450 G. Hernández Torres, S. Choppin,
F. Colobert*

Efficient Suzuki–Miyaura Coupling Reactions
between Lithium Alkynyltrimethylborates and
Aryl Chlorides

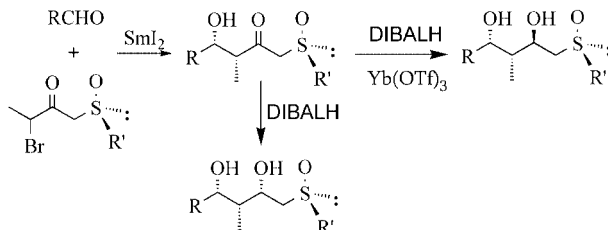
Keywords: Cross-coupling / Alkynes / Palladium / Aryl
chlorides / Boron



1455 F. Colobert,* M. Obringer, G. Solladié

A New Access to Enantiopure *syn*- and *anti*-2-
Methyl-1,3-diol Moieties from Chiral Nonra-
cemic α -Bromo α' -Sulfinyl Ketones Promoted by
Samarium Diiodide

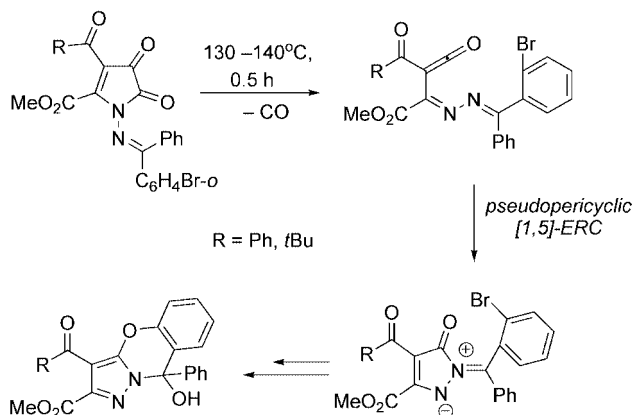
Keywords: Asymmetric synthesis / Reformatsky reac-
tion / 2-Methyl-1,3-diol moiety / Sulf-
oxides / Samarium



1468 N. A. Lisowskaya, M. Alajarin,
P. Sanchez-Andrada*

New Cyclization Mode of [N-(Diarylmethylene-
amino)carbonimidoyl]ketenes: Synthesis of 9*H*-
Pyrazolo[3,2-*b*][1,3]benzoxazines

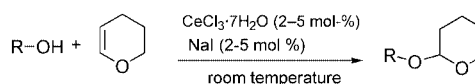
Keywords: Imidoyl ketenes / Thermolysis / 1*H*-Pyrrole-
2,3-diones / 9*H*-Pyrazolo[3,2-*b*][1,3]benz-
oxazines / Ab initio and density functional
calculations



1476 G. Bartoli,* R. Giovannini, A. Giuliani,
E. Marcantoni,* M. Massaccesi,
P. Melchiorre, M. Paoletti, L. Sambri

Solvent-Free Carbon–Oxygen Bond Formation
Catalysed by CeCl₃·7H₂O/NaI: Tetrahydropyra-
nylation of Hydroxy Groups

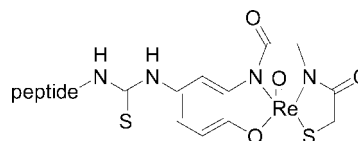
Keywords: Alcohols / Cerium / Lewis acids / Chemo-
selectivity / Synthetic methods / Protecting
groups



1483 J. Le Gal, E. Benoist*

A Convenient Synthesis of An Original, Bifunctional Chelator Based on an ON₂S Ligand and its Coordination Chemistry with the Oxo-rhenium(V) Core

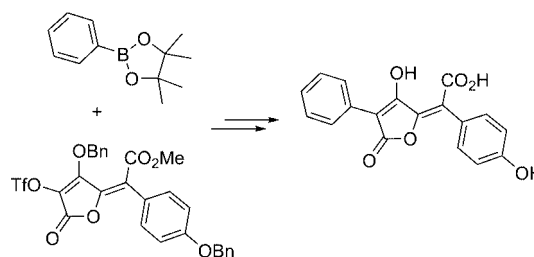
Keywords: Chelates / Conjugation / N₂O ligands / Rhenium



1489 M. Desage-El Murr, S. Nowaczyk, T. Le Gall,* C. Mioskowski

Synthesis of Pulvinic Acid and Norbadione A Analogues by Suzuki–Miyaura Cross-Coupling of Benzylated Intermediates

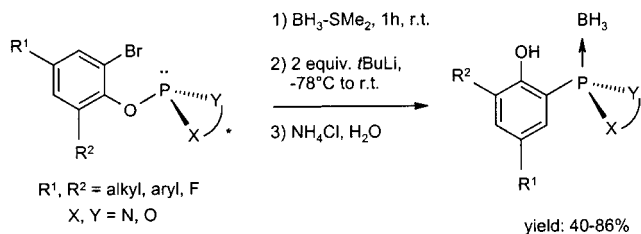
Keywords: Boronic esters / Cross-coupling / Heterocycles / Natural products / Synthetic methods



1499 C. J. Ngono, T. Constantieux, G. Buono*

Diastereoselective Synthesis of New P-Stereogenic (*ortho*-Hydroxyaryl)diazaphospholidine–Borane Complexes by a Totally Stereoselective P–O to P–C Migration Rearrangement

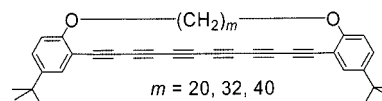
Keywords: Asymmetric synthesis / Chiral ligand design / Organophosphorus compounds / P₂O ligands / 1,3-Carbanionic rearrangements



1508 C. Klinger, O. Vostrowsky, A. Hirsch*

Synthesis of Alkylene-Bridged Diphenyl-Oligoynes

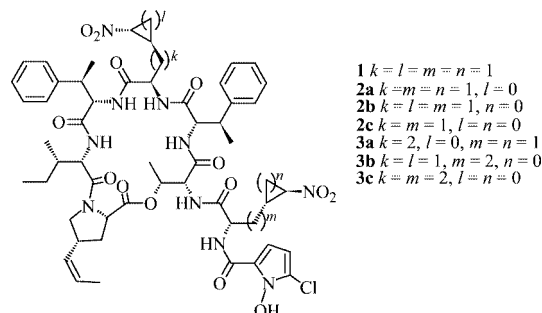
Keywords: Alkynes / Macrocycles / Oligoynes



1525 B. D. Zlatopolskiy, M. Radzom, A. Zeeck,* A. de Meijere*

Synthesis and Precursor-Directed Biosynthesis of New Hormaomycin Analogues

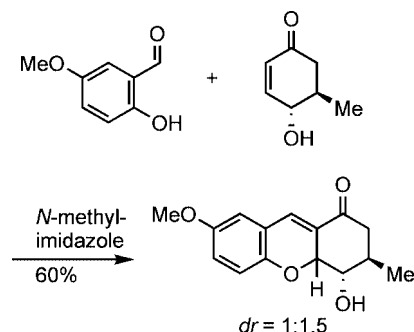
Keywords: Natural products / Amino acids / Synthetic methods / Peptides / Biosynthesis



1535 U. K. Ohnemüller (née Schmid),
C. F. Nising, M. Nieger, S. Bräse*

The Domino Oxa-Michael Addition–Aldol Reaction: Access to Variably Substituted Tetrahydroxanthenones

Keywords: Tetrahydroxanthenones / Cyclohexenones / Domino reactions / Secalonic acids / Natural products / Mycotoxins

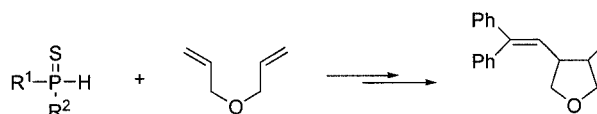


1547 C. M. Jessop, A. F. Parsons,*
A. Routledge, D. J. Irvine



Radical Addition Reactions of Phosphorus Hydrides: Tuning the Reactivity of Phosphorus Hydrides, the Use of Microwaves and Horner–Wadsworth–Emmons-Type Reactions

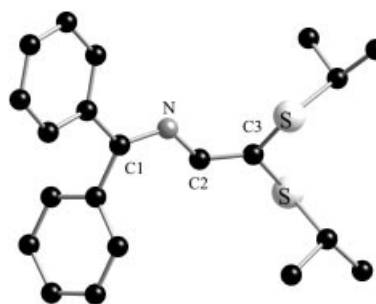
Keywords: Radical reactions / Heterocycles / Synthetic methods / Cyclisation



1555 S. Jacquot-Rousseau, G. Schmitt,*
A. Khatyr, M. Knorr,* M. M. Kubicki,
E. Vigier, O. Blacque

Reactivity of 4,4-Dichloro-1,1-diphenyl-2-azabutadiene Towards Alkoxides and Thiolates: Synthesis of Functionalised π -Conjugated 2-Azabutadienes and Unexpected 1,4-Thiazine Formation

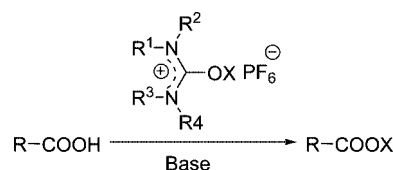
Keywords: 2-Azabutadiene / Dithioether / HSAB principle / Density functional calculations / 1,4-Thiazine



1563 A. El-Faham,* S. N. Khattab,
M. Abdul-Ghani, F. Albericio*

Design and Synthesis of New Immonium-Type Coupling Reagents

Keywords: Amides / Combinatorial chemistry / Peptides / Racemization / Solid-phase synthesis

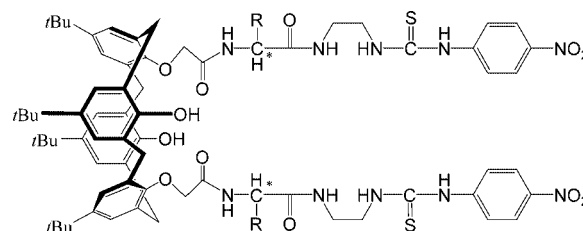


1574 G.-Y. Qing, Y.-B. He,* Y. Zhao, C.-G. Hu,
S.-Y. Liu, X. Yang



Calix[4]arene-Based Chromogenic Chemosensor for the α -Phenylglycine Anion: Synthesis and Chiral Recognition

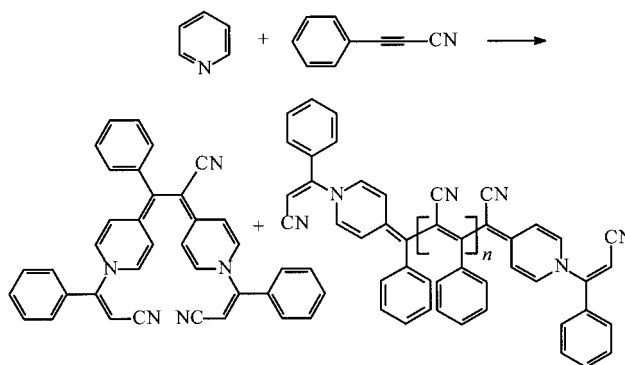
Keywords: Chirality / Calixarenes / Anion receptor / Chiral recognition / UV/Vis spectra / Chromogenic sensor



3 a: R = CH₃
3 b: R = PhCH₂

- 1581** B. A. Trofimov,* L. V. Andriyankova,
A. G. Mal'kina, L. P. Nikitina, A. V. Afonin,
I. A. Ushakov, L. M. Sinegovskaya,
T. I. Vakul'skaya

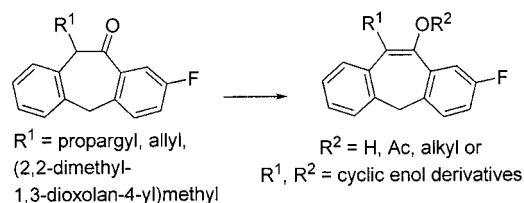
Reaction of Pyridine with Phenylcyanoacetylene: A New Route to Functionalized Polyconjugated 1,4-Dihydropyridine Systems



Keywords: Alkynes / Conjugation / Pyridines

- 1586** F. Compernelle,* S. Toppet, T. Brossette,
H. Mao, M. Koukni, T. Kozlecki,
B. Medaer, M. Guillaume, Y. Lang,
S. Leurs, G. J. Hoornaert*

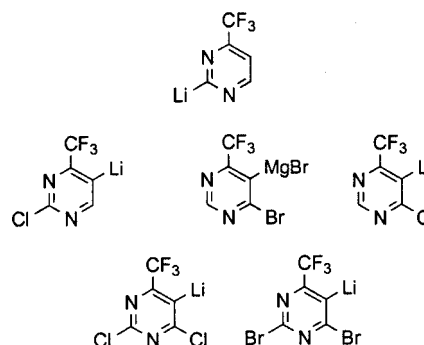
Diastereomeric Enols and Enol Derivatives of 8-Fluoro-5,11-dihydro-10*H*-dibenzo[*a,d*]cyclohepten-10-one with a Chiral 11-Substituent



Keywords: Aldol reactions / Conformation analysis / Enols / Fused-ring systems / Hydrogenation

- 1593** M. Schlosser*, O. Lefebvre, L. Ondi

Metal-Bearing and Trifluoromethyl-Substituted Pyrimidines: Generation and Functionalization



Keywords: Functionalization / Halogen/metal permutation / Metalation / Nucleophilic addition / Pyrimidines / Single electron transfer / Trifluoromethyl groups



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