Synthesis of tripodal aza crown ether calix[4]arenes and their supramolecular chemistry with transition-, alkali metal ions and anions

Tetrahedron 58 (2002) 10277

Thawatchai Tuntulani,[a,*] Praput Thavornyutikarn,[a] Sirilux Poompradub,[a] Nongnuj Jaiboon,[a] Vithaya Ruangpornvisuti,[a] Narongsak Chaichit,[b] Zouhair Asfari[c] and Jacques Vicens[c]

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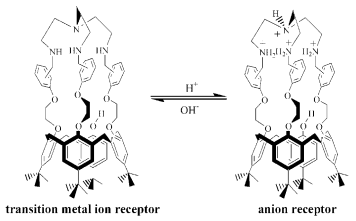
[c]*ECPM, Group de Chimie des Interactions Moléculaires Spécifiques, associé au CNRS, 25, rue Becquerel, F-67087 Strasbourg, Cedex 2, France*



Resolution of α-hydroxystannanes via norephedrine carbamates

Tetrahedron 58 (2002) 10287

Kevin W. Kells, Nathan H. Nielsen, Rosemary J. Armstrong-Chong and J. Michael Chong*

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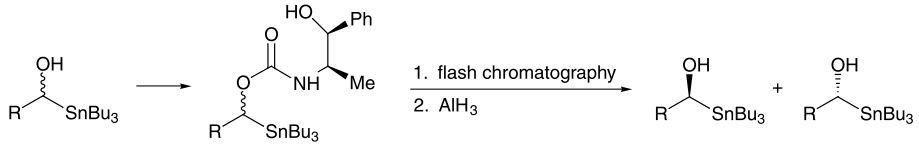
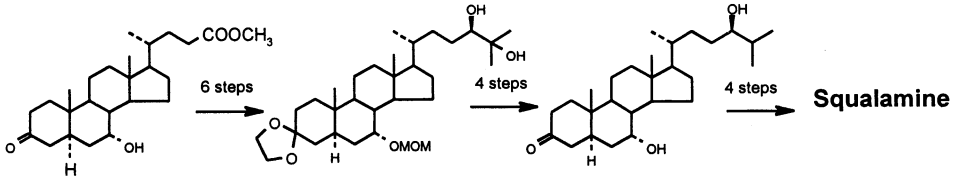


A stereoselective synthesis of squalamine

Tetrahedron 58 (2002) 10293

Xiang-Dong Zhou, Feng Cai and Wei-Shan Zhou*

Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 354 Fenglin Lu, Shanghai 200032, People's Republic of China



Diastereoselective synthesis of *cis*-fused pyrano and furanobenzopyrans catalyzed by indium trichloride or triphenyl phosphonium perchlorate

Tetrahedron 58 (2002) 10301

Marimuthu Anniyappan, D. Muralidharan and Paramasivan T. Perumal*

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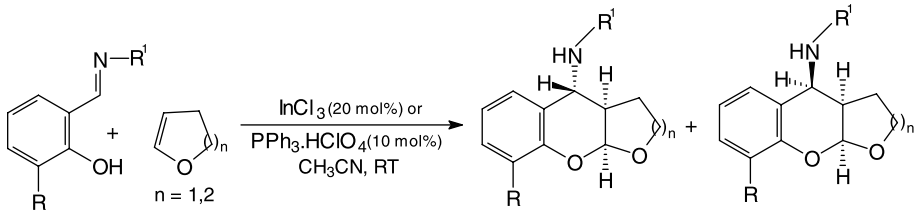
Central Leather Research Institute,
Adyar, Chennai 600 020, India

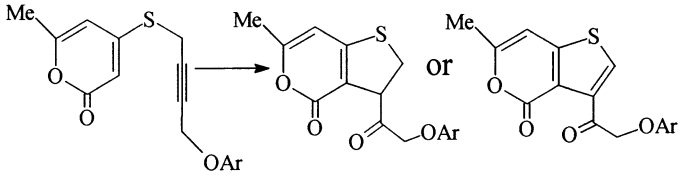


Studies on triacetic acid lactone-annulated heterocycles: synthesis of 3-aryloxyacetyl-6-methyl-2,3-dihydrothieno-[3,2-*c*]pyran-4-ones by tandem cyclization

Tetrahedron 58 (2002) 10309

K. C. Majumdar* U. K. Kundu and S. Ghosh

Department of Chemistry, University of Kalyani, Kalyani 741235, West Bengal, India



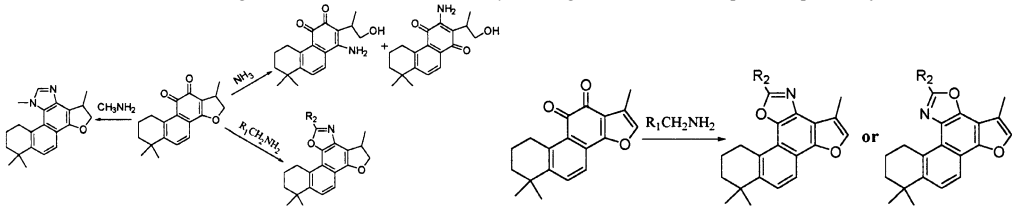
Reaction of tanshinones with biogenic amine metabolites in vitro

Tetrahedron 58 (2002) 10315

Lin-Kun An,[a,b] Xian-Zhang Bu,[a] Hai-Qiang Wu,[a] Xin-Dong Guo,[a] Lin Ma[a,b] and Lian-Quan Gu[a,b,*]

[a]*Department of Chemistry, School of Chemistry and Chemical Engineering, Zhongshan (Sun Yat-Sen) University, Guangzhou 510275, People's Republic of China*

[b]*School of Pharmaceutical Sciences, Zhongshan (Sun Yat-Sen) University, Guangzhou 510275, People's Republic of China*



A direct synthesis of nitriles and amides from aldehydes using dry or wet alumina in solvent free conditions

Tetrahedron 58 (2002) 10323

Hashem Sharghi* and Mona Hosseini Sarvari

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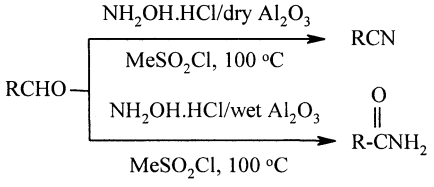
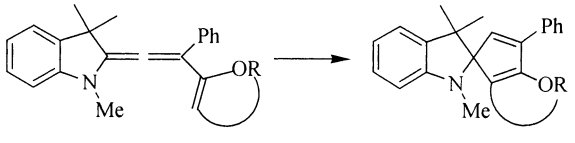


5-Aminocyclopentadienes by intramolecular addition of enolether to aminoallene functionalities

Tetrahedron 58 (2002) 10329

Robert Reinhard, Jens Schlegel and Gerhard Maas*

Divison of Organic Chemistry I, University of Ulm, Albert-Einstein-Allee 11, D-89081 Ulm, Germany

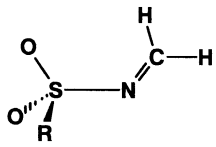


Electronic structure of *N*-sulfonylimines

Tetrahedron 58 (2002) 10335

Prasad V. Bharatam,* Amita and Damanjit Kaur

Department of Chemistry, Guru Nanak Dev University, Amritsar 143 001, India



where R = H, Me, Cl, F, BH_2

One step synthesis of imidazole and benzimidazole acycloaromatic nucleoside analogs

Tetrahedron 58 (2002) 10341

A. Khalafi-Nezhad,[a,*] M. N. Soltani Rad,[a] G. H. Hakimelahi[b] and B. Mokhtari[a]

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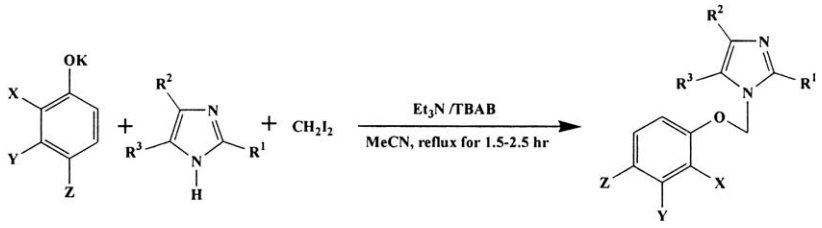
[b]*TaiGen Biotechnology, Taipei 114, Taiwan, ROC*



Preparation and separation of all possible rotamers of a stereochemical analog of *meso*-tartaric acid: optically inactive and optically active isomers of (*R*,*S*)-2,2′-bis(methoxycarbonyl)-6,6′-dimethyl-9,9′-bitriptycyl

Tetrahedron 58 (2002) 10345

Shinji Toyota,[a,*] Takashi Nakagawa,[a] Masashi Kotani,[a] Michinori Ōki,[a,*] Hidehiro Uekusa[b] and Yuji Ohashi[b]

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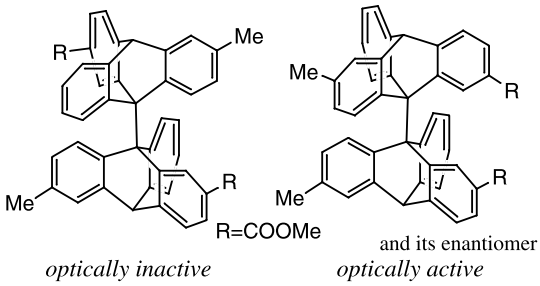
[b]*Department of Chemistry and Materials Science, Tokyo Institute of Technology, Ookayama 2, Meguro-Ku, Tokyo 152-8551, Japan*

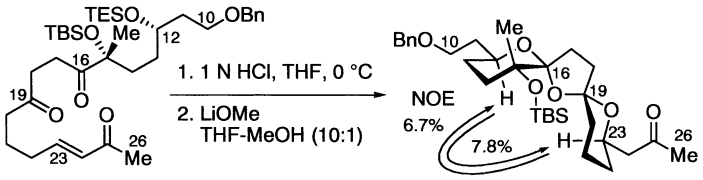


Studies directed toward the total synthesis of pinnatoxin A: synthesis of the 6,5,6-dispiroketal (BCD ring) system by double hemiketal formation/hetero-Michael addition strategy

Tetrahedron 58 (2002) 10353

Seiichi Nakamura, Jun Inagaki, Masashi Kudo, Tomohiro Sugimoto, Kohei Obara, Makoto Nakajima and Shunichi Hashimoto*

Graduate School of Pharmaceutical Sciences, Hokkaido University, Sapporo 060-0812, Japan

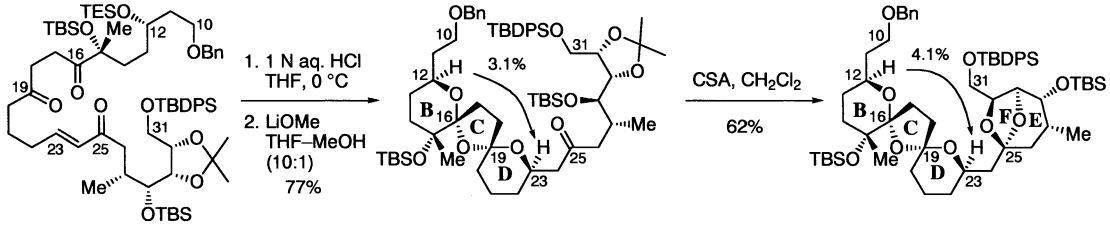


A highly stereoselective synthesis of the C10–C31 (BCDEF ring) portion of pinnatoxin A

Tetrahedron 58 (2002) 10375

Seiichi Nakamura, Jun Inagaki, Tomohiro Sugimoto, Yasuyuki Ura and Shunichi Hashimoto*

Graduate School of Pharmaceutical Sciences, Hokkaido University, Sapporo 060-0812, Japan



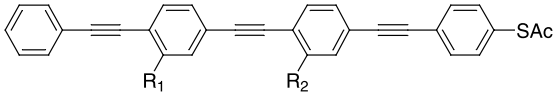
Combinatorial synthesis of oligo(phenylene ethynylene)s

Tetrahedron 58 (2002) 10387

Jiunn-Jye Hwang and James M. Tour*

Department of Chemistry and Center for Nanoscale Science and Technology, MS-222, Rice University, 6100 Main Street, Houston, TX 77005, USA

Strategies for the combinatorial synthesis of oligo(phenylene ethylene)s, candidates for testing in molecular electronics and other applications, are reported. A library of 24 compounds was made using solid phase techniques in higher yield than the solution phase.



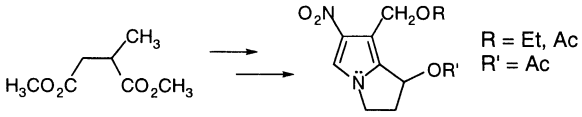
12 a-e, R_1 = H, R_2 = F, CN, CF_3, or Et
13 a-e, R_1 = F, R_2 = H, F, CN, CF_3, or Et
14 a-e, R_1 = CN, R_2 = H, F, CN, CF_3, or Et
15 a-e, R_1 = CF_3, R_2 = H, F, CN, CF_3, or Et
16 a-e, R_1 = Et, R_2 = H, F, CN, CF_3, or Et

Synthesis of 1*H*-2,3-dihydropyrrolizine derivatives as precursors of bifunctional alkylating agents

Tetrahedron 58 (2002) 10407

Shanthi Rajaraman and Leslie S. Jimenez*

Department of Chemistry and Chemical Biology, Rutgers University, 610 Taylor Road, Piscataway, NJ 08854-8087, USA

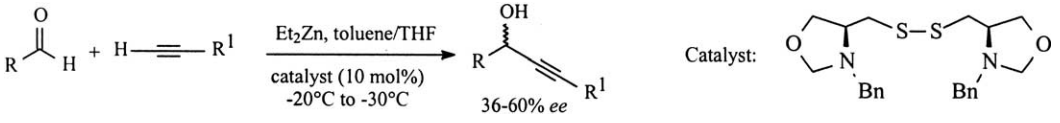


Facile and practical enantioselective synthesis of propargylic alcohols by direct addition of alkynes to aldehydes catalyzed by chiral disulfide–oxazolidine ligands

Tetrahedron 58 (2002) 10413

Antonio L. Braga,[a,*] Helmoz R. Appelt,[a] Claudio C. Silveira,[a] Ludger A. Wessjohann[b] and Paulo H. Schneider[a]

[a]*Departamento de Química, Universidade Federal de Santa Maria, CEP-97105-900 Santa Maria, RS, Brazil*
[b]*Leibniz-Institute of Plant Biochemistry, Weinberg 3, D-06120 Halle (Saale), Germany*

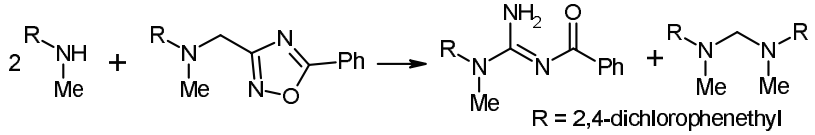


A ring-fission/C–C bond cleavage reaction with an *N*-alkyl-*N*-methyl-*N*-[(5-phenyl-1,2,4-oxadiazol-3-yl)methyl]amine

Tetrahedron 58 (2002) 10417

Christine Jäger,[a] Christian Laggner,[a] Kurt Mereiter[b] and Wolfgang Holzer[a,*]

[a]*Institute of Pharmaceutical Chemistry, University of Vienna, Pharmaziezentrum, Althanstraße 14, A-1090 Vienna, Austria*
[b]*Institute of Chemical Technology and Analytics, Technical University of Vienna, Getreidemarkt 9/164, A-1060 Vienna, Austria*

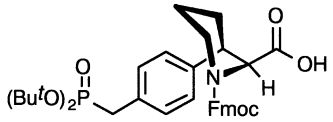


Synthesis of *N*-Fmoc 3-(4-(di-(*tert*-butyl)phosphonomethyl)-phenyl)pipecolic acid as a conformationally constrained phosphotyrosyl mimetic suitably protected for peptide synthesis

Tetrahedron 58 (2002) 10423

Ding-Guo Liu,[a] Xiang-Zhu Wang,[a] Yang Gao,[a] Bihua Li,[b] Dajun Yang[b] and Terrence R. Burke, Jr.[a,*]

[a]*Laboratory of Medicinal Chemistry, Center for Cancer Research, NCI at Frederick, Frederick, MD 21702, USA*
[b]*Department of Internal Medicine, Division of Hematology and Oncology, the University of Michigan, Ann Arbor, MI 48109, USA*

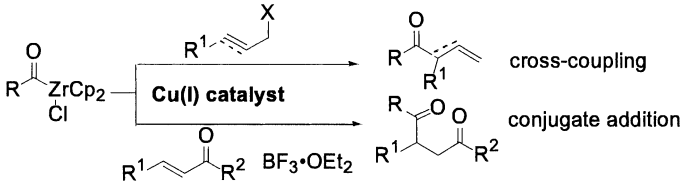


Copper(I)-catalyzed reaction of acylzirconocene chloride: cross-coupling and conjugate addition

Tetrahedron 58 (2002) 10429

Yuji Hanzawa,* Kensuke Narita, Masaya Yabe and Takeo Taguchi*

School of Pharmacy, Tokyo University of Pharmacy and Life Science, 1432-1 Horinouchi, Hachioji, Tokyo 192-0392, Japan

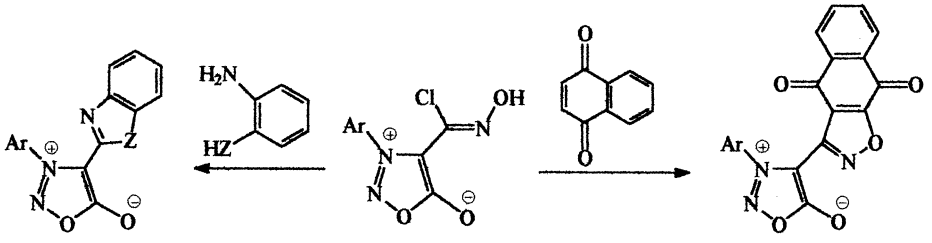


Studies on the syntheses of heterocycles from 3-arylsydnone-4-carbohydroximic acid chlorides with *N*-arylmaleimides, [1,4]naphthoquinone and aromatic amines

Tetrahedron 58 (2002) 10437

Mei-Hsiu Shih

Department of Chemical Engineering, Southern Taiwan University of Technology, Tainan 710, Taiwan, ROC



Tetrahedron 58 (2002) 10447

Regio- and stereoisomeric composition of the product mixture in the Diels–Alder reaction of dicyclopentadiene with bicyclononadiene: a NMR and DFT quantum chemical investigation

Monique Biesemans,[a,*] Hassan Dalil,[a] Loc Thanh Nguyen,[b] Bart Haelterman,[c] Ghislain Decadt,[c] Francis Verpoort,[d] Rudolph Willem[a] and Paul Geerlings[b]

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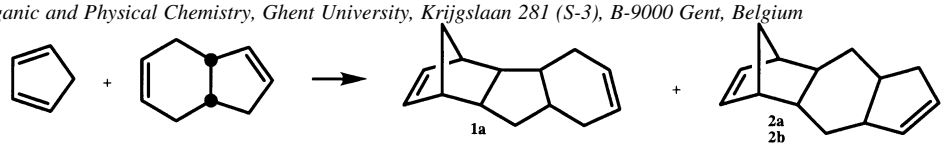
[c]*INEOS, Haven 1053, Nieuwe Weg 1, B-2070 Zwijndrecht, Belgium*
[d]*Department of Inorganic and Physical Chemistry, Ghent University, Krijgslaan 281 (S-3), B-9000 Gent, Belgium*



Tetrahedron 58 (2002) 10455

Synthesis of α,β-unsaturated oxathiolanes

Sébastien Kerverdo,[a] Louisette Lizzani-Cuvelier[a] and Elisabet Duñach[b,*]

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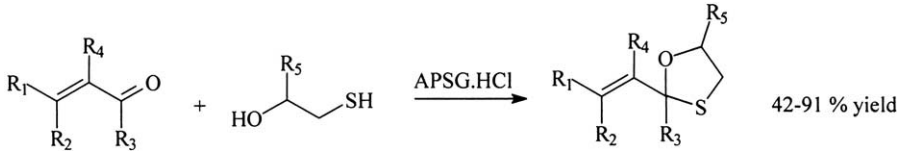
[b]*Laboratoire de Chimie Bio-organique, UMR CNRS 6001, Université de Nice Sophia-Antipolis, Parc Valrose, 06108 Nice, Cedex 2, France*

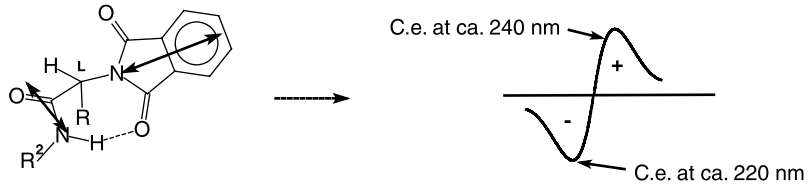


Tetrahedron 58 (2002) 10463

Phthalimide as a chromophoric tag in the circular dichroism determination of absolute configuration of α-aminoacid amides and dipeptides. A case of a dipeptide isostructurality

P. Skowronek,* A. Katrusiak and J. Gawroński

Department of Chemistry, Adam Mickiewicz University, Grunwaldzka 6, 60780 Poznań, Poland

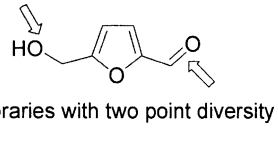


Tetrahedron 58 (2002) 10469

Template-directed approach to solid-phase combinatorial synthesis of furan-based libraries

Priya Gupta, Sanjay K. Singh, Arunendra Pathak and Bijoy Kundu*

Division of Medicinal Chemistry, Central Drug Research Institute, Lucknow 226001, India



An efficient method for the stereoselective synthesis of *cis*-3-substituted prolines: conformationally constrained α-amino acids

Tetrahedron 58 (2002) 10475

Céline Flamant-Robin, Qian Wang, Angèle Chiaroni and N. André Sasaki*

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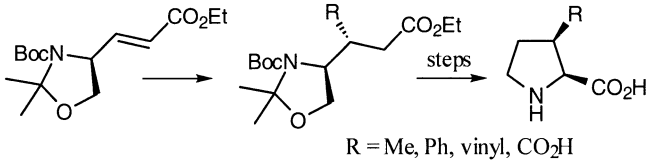

R = Me, Ph, vinyl, CO_2H

Optically active nitroalkenes—synthesis, addition reactions and transformation into amino acids

Tetrahedron 58 (2002) 10485

Jan Hübner, Jürgen Liebscher and Michael Pätzel*

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