

Tetrahedron Letters Vol. 50, No. 40, 2009

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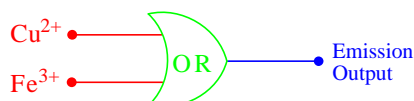
COMMUNICATIONS

Benzimidazole-based ratiometric fluorescent receptor exhibiting molecular logic gate for Cu^{2+} and Fe^{3+}

pp 5555–5558

Hee Jung Jung, Narinder Singh, Doo Youn Lee, Doo Ok Jang *

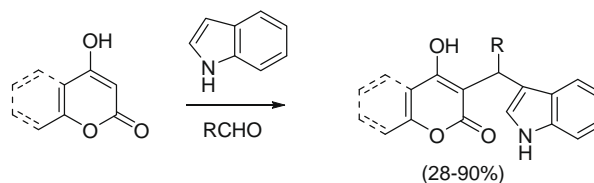
INPUTS		OUTPUT
Cu^{2+}	Fe^{3+}	EMISSION
0	0	0
0	1	1
1	0	1
1	1	1



A multicomponent synthesis of gem-(β -dicarbonyl)arylmethanes

pp 5559–5561

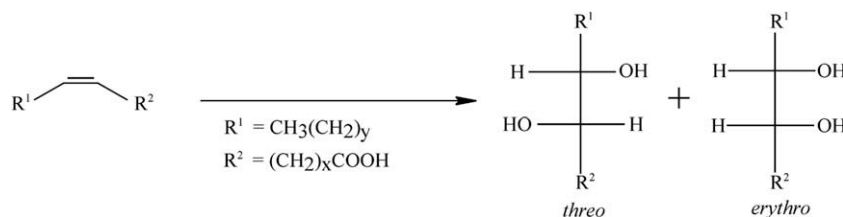
Giovanni Appendino, Lavinia Cicione, Alberto Minassi *



Formation of dihydroxy acids from Z-monounsaturated alkenoic acids and their use as biomarkers for the processing of marine commodities in archaeological pottery vessels

pp 5562–5564

Fabricio A. Hansel, Richard P. Evershed *

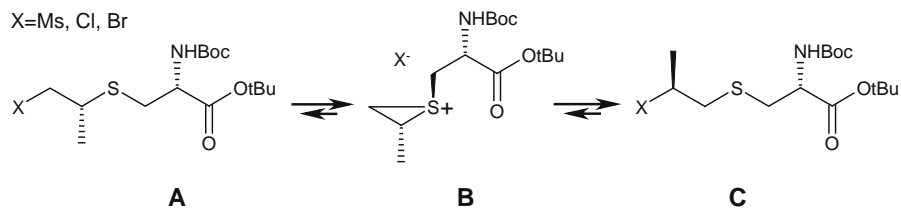


Vicinal diols formed via oxidative degradation of Z-monounsaturated alkenoic acids preserved in polymerised forms in pottery vessels provide unique biomarkers for the processing of marine commodities.

Controlling thiiranium intermediates—a new route to an iNOS inhibitor

pp 5565–5568

Geracimos Rassias*, Stephen A. Hermitage

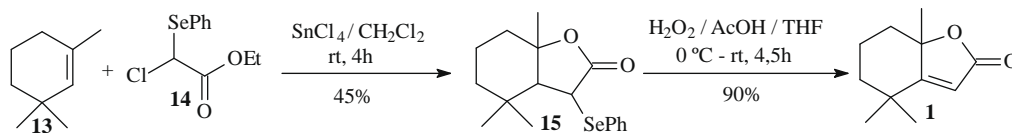


An equilibrium between **A** and **C** exists presumably via thiiranium ion **B**. The dynamics of this equilibrium are dominated by the leaving group ability/nucleophilicity of X and this is exploited in defining a new route to an iNOS (inducible isoform of nitric oxide synthase) inhibitor. A new amidination method is also described.

Total synthesis of (±)-dihydroactinidiolide using selenium-stabilized carbenium ion

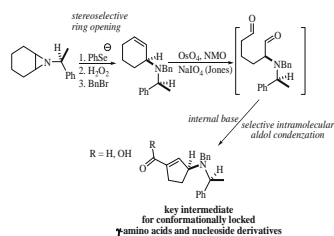
pp 5569–5571

Miguel J. Dabdoub*, Claudio C. Silveira, Eder J. Lenardão, Palimécio G. Guerrero Jr., Luiz H. Viana, Cristiane Y. Kawasoko, Adriano C. M. Baroni*

**Highly stereoselective aziridine ring-opening with phenylselenide anion and selective intramolecular aldol closure for the enantiopure synthesis of γ -aminocyclopentene derivatives**

pp 5572–5574

José Alvano Pérez-Bautista, Martha Sosa-Rivadeneira, Leticia Quintero, Herbert Höpfl, Farid Andrés Tejeda-Dominguez, Fernando Sartillo-Piscil*

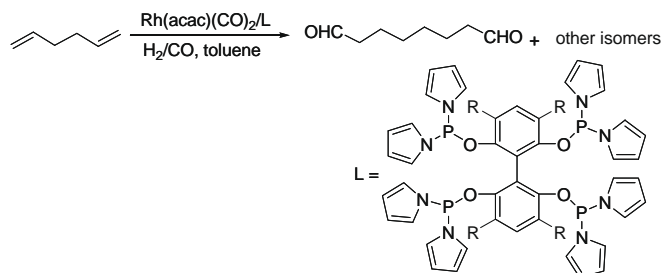


A practical and enantiopure synthesis for the preparation of key intermediates of conformationally locked γ -amino acid and nucleoside analogues is described via an intramolecular selective aldol-condensation catalyzed by an internal base.

Highly regioselective hydroformylation of 1,5-hexadiene to linear dialdehyde catalyzed by rhodium complexes with tetraphosphorus ligands

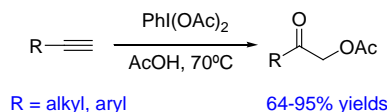
pp 5575–5577

Shichao Yu, Yu-ming Chie, Xiaowei Zhang, Liyan Dai, Xumu Zhang*



The reaction of terminal alkynes with PhI(OAc)₂: a convenient procedure for the preparation of α -acyloxy ketones pp 5578–5581

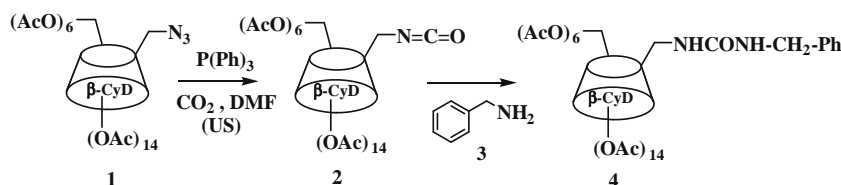
Dong-Liang Mo, Li-Xin Dai, Xue-Long Hou *



Treatment of terminal alkynes with PhI(OAc)₂ in different acids at 70 °C provided the corresponding α -acyloxy ketones in good to excellent yields. A plausible mechanism has been proposed based on the experimental results.

**Ultrasound promoted Staudinger-Aza-Wittig tandem reaction on a monoazido-O-peracetylated- β -cyclodextrin: effect of ultrasound power** pp 5582–5584

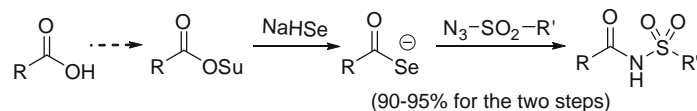
Alexandre Scondo, Florence Dumarçay-Charbonnier, Danielle Barth, Alain Marsura *



Ultrasound promoted Staudinger-Aza-Wittig tandem reaction.

An improved practical synthesis of protected α -amino selenocarboxylates and its application to the synthesis of *N*-(α -aminoacyl)sulfonamides pp 5585–5588

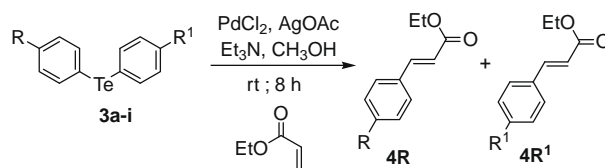
Xinghua Wu, Yu Chen, Longqin Hu *



Protected α -amino selenocarboxylates were prepared by reaction of the corresponding amino acid-activated esters with NaHSe and then reacted readily with sulfonyl azide to form *N*-(α -aminoacyl)sulfonamides in high yields.

Synthesis of α,β -unsaturated aryl esters via Heck reaction of unsymmetrical aryl tellurides pp 5589–5595

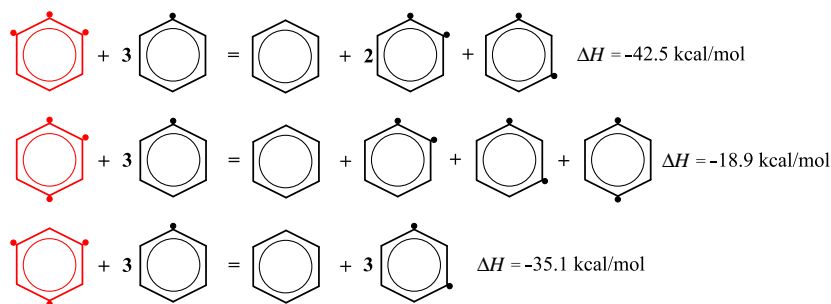
Hélio A. Stefani *, Jesus M. Pena, Kemilla Gueogjian, Nicola Petraghani, Boniek G. Vaz, Marcos N. Eberlin



Benzene triradicals: stabilization or destabilization?

pp 5596–5598

Ilie Fishtik

**A novel P,O-type phosphorinane ligand for the Suzuki–Miyaura cross-coupling of aryl chlorides**

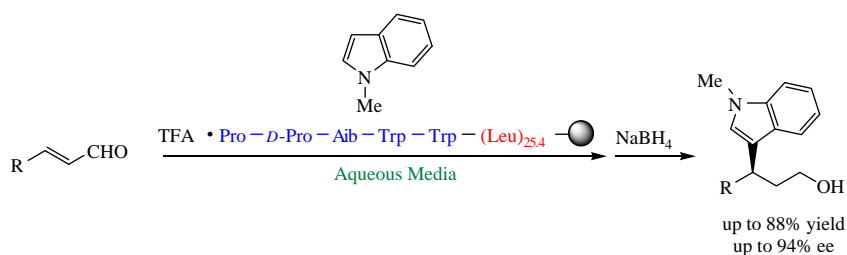
pp 5599–5601

Ehsan Ullah, James McNulty*, Al Robertson

**Friedel–Crafts-type alkylation in aqueous media using resin-supported peptide catalyst having polyileucine**

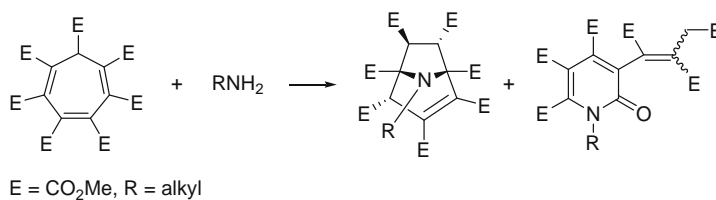
pp 5602–5604

Kengo Akagawa, Takuhiro Yamashita, Seiji Sakamoto, Kazuaki Kudo*

**Synthesis of substituted nortrop-2-enes and 3-vinylpyridin-2-ones via reaction of 1,2,3,4,5,6,7-heptamethoxycarbonylcycloheptatriene with primary amines**

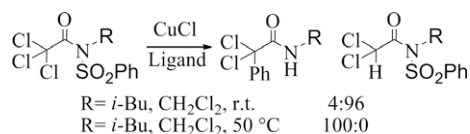
pp 5605–5608

Yury V. Tomilov*, Dmitry N. Platonov, Galina P. Okonnishnikova



1,4-Aryl migration under copper(I) atom transfer conditions

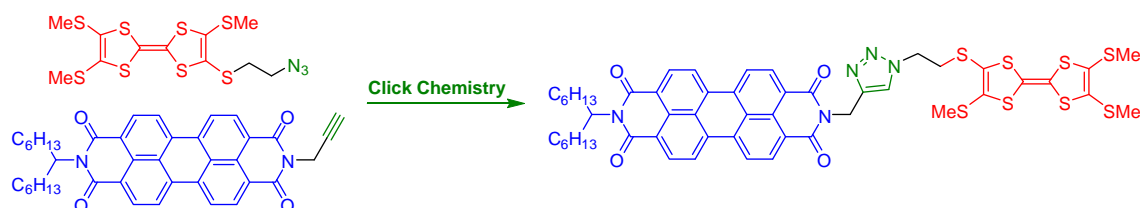
pp 5609–5612

Andrew J. Clark ^{*}, Stuart R. Coles, Alana Collis, Thomas Debure, Collette Guy, Nicholas P. Murphy, Paul Wilson

Trichlorosulfonamides undergo reaction with CuCl/amines to furnish either reduced dichlorosulfonamides or amides via a 1,4-aryl shift with loss of SO₂ depending upon the reaction conditions. Along with amide hydrolysis these reactions may compete when carrying out relatively slow atom transfer radical cyclisation reactions.

A tetrathiafulvalene–perylene diimide conjugate prepared via click chemistry

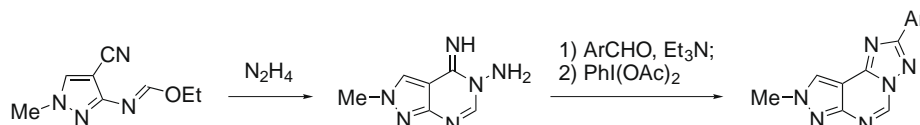
pp 5613–5616

Katrine Qvortrup, Michael Åxman Petersen, Tue Hassenkam, Mogens Brøndsted Nielsen ^{*}

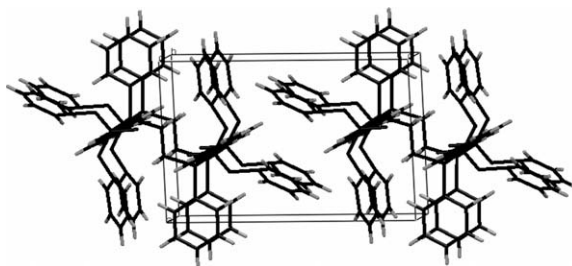
'Click chemistry' provides a method for preparing tetrathiafulvalene (TTF)–perylene diimide (PDI) conjugates.

A new synthesis of 2,8-disubstituted pyrazolo[4,3-e][1,2,4]triazolo[1,5-c]pyrimidines

pp 5617–5621

Anton V. Dolzhenko ^{*}, Giorgia Pastorin, Anna V. Dolzhenko, Wai Keung Chui**A versatile synthesis of a new bisiminophosphorane**

pp 5622–5624

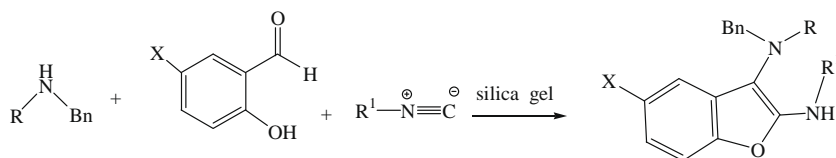
Andreea Micle, Natalia Miklášova, Richard A. Varga, Aurelia Pascariu ^{*}, Nicoleta Pleșu, Mihaela Petric, Gheorghe Ilia ^{*}

The iminophosphorane CH₂CH₂[P(=NP(=O)(OPh)₂)Ph₂]₂ is synthesized in high yields (80–97%) via a very convenient procedure using diphenylphosphoryl azide (DPPA) and 1,2-bis(diphenylphosphino)ethane.



A novel three-component reaction of a secondary amine and a 2-hydroxybenzaldehyde derivative with an isocyanide in the presence of silica gel: an efficient one-pot synthesis of benzo[*b*]furan derivatives

pp 5625–5627

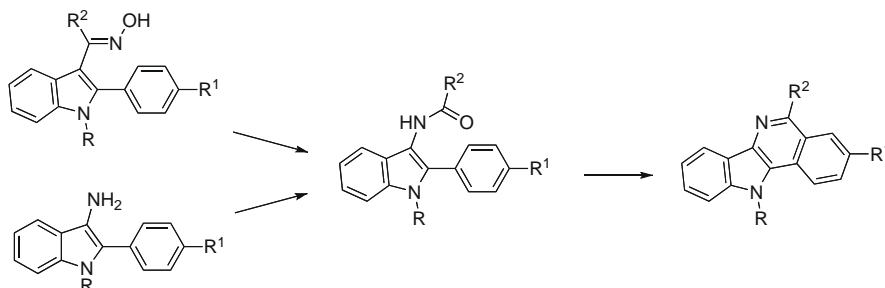
Ali Ramazani^{*}, Amir Tofangchi Mahyari, Morteza Rouhani, Aram Rezaei

Addition of an isocyanide to an iminium ion intermediate, formed by reaction between an electron-poor 2-hydroxybenzaldehyde derivative and a secondary amine, in the presence of silica gel at room temperature leads to benzo[*b*]furans in high yields.



A versatile synthetic route to 11*H*-indolo[3,2-*c*]isoquinolines

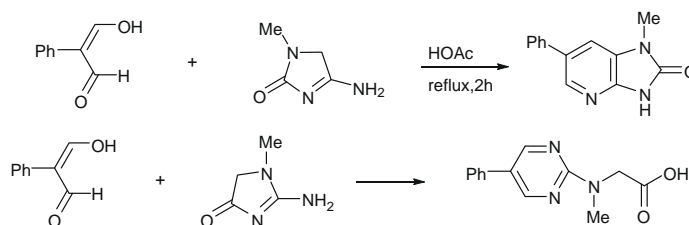
pp 5628–5630

Ji Qu, Naresh Kumar, Mahiuddin Alamgir, David StC. Black^{*}

Synthesis of a new isomer of creatinine and its use in the preparation of the food mutagen 2-amino-1-methyl-6-phenyl-1*H*-imidazo[4,5-*b*]pyridine (PHIP)

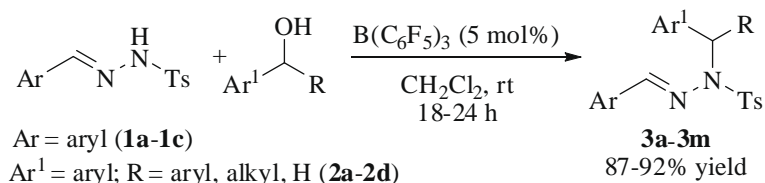
pp 5631–5632

Jan Bergman



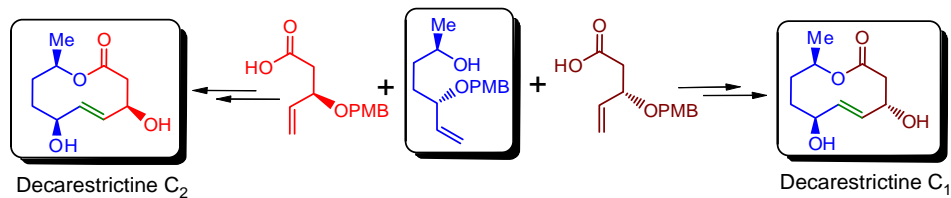
Acid-catalyzed *N*-alkylation of tosylhydrazones using benzylic alcohols

pp 5633–5635

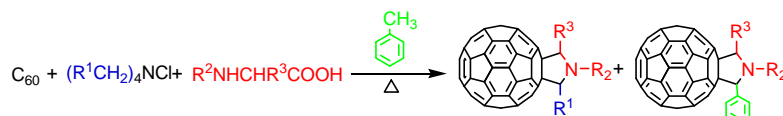
Ch. Raji Reddy^{*}, E. Jithender

Total syntheses and absolute stereochemistry of decarestrictines C₁ and C₂

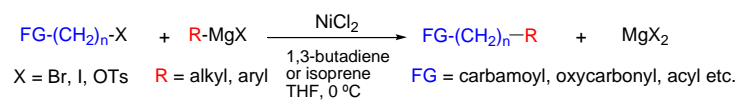
pp 5636–5639

Debendra K. Mohapatra^{*}, Gokarneswar Sahoo, Dhondi K. Ramesh, J. Srinivasa Rao, G. Narahari Sastry**Synthesis of fulleropyrrolidines through the reaction of [60]fullerene with quaternary ammonium salts and amino acids**

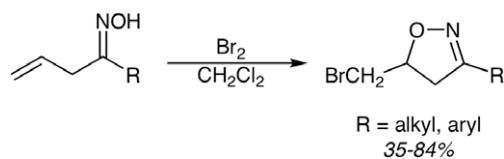
pp 5640–5643

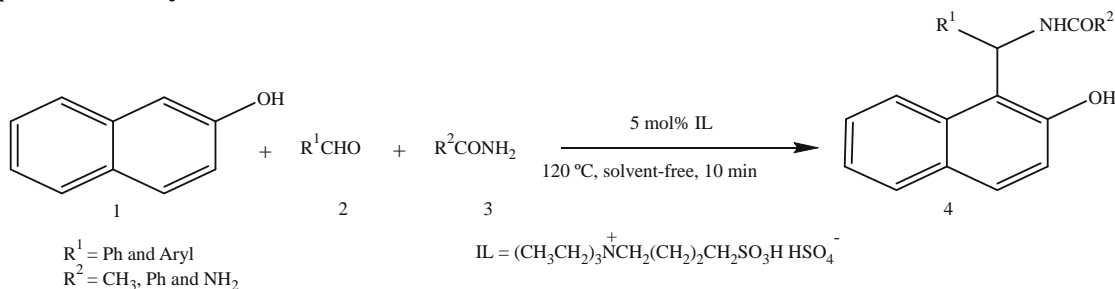
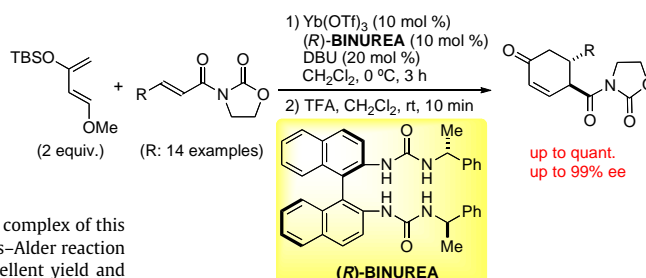
Bo Jin^{*}, Ru-Fang Peng^{*}, Juan Shen, Shi-Jin Chu**Nickel-catalyzed cross-coupling of unactivated alkyl halides and tosylate carrying a functional group with alkyl and phenyl Grignard reagents**

pp 5644–5646

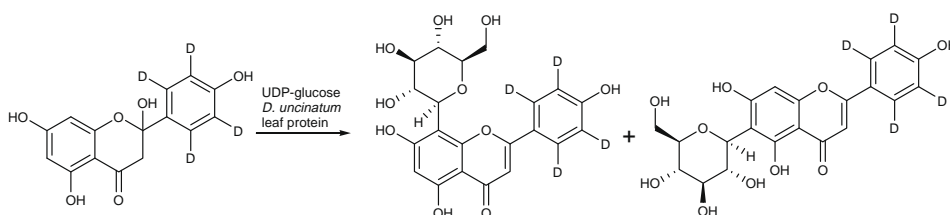
Surya Prakash Singh, Jun Terao, Nobuaki Kambe^{*}**5-Bromomethyl-4,5-dihydroisoxazoles**

pp 5647–5648

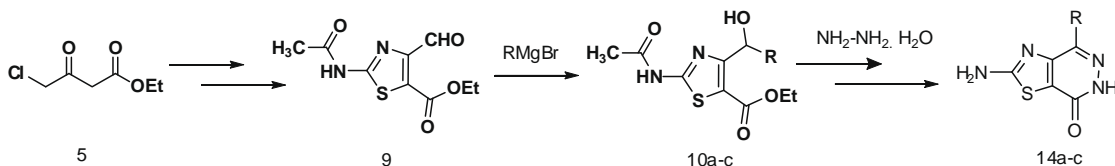
Michael D. Mosher^{*}, Amber L. Norman, Khriesto A. Shurrush

Brønsted acidic ionic liquid as an efficient and reusable catalyst for one-pot synthesis of 1-amidoalkyl 2-naphthols under solvent-free conditions pp 5649–5651
Abdol R. Hajipour^{*}, Yosof Ghayeb, Nafisehsadat Sheikhan, Arnold E. Ruoho
Highly enantioselective Diels–Alder reaction of Danishefsky-type diene and electron-deficient olefins catalyzed by an Yb(III)/chiral bis-urea complex pp 5652–5655
Shinji Harada, Nozomi Toudou, Shiharu Hiraoka, Atsushi Nishida^{*}

The synthesis and utility of the novel axially chiral bis-urea ligand BINUREA are described. A complex of this urea ligand with ytterbium triflate and DBU can be used in the catalytic enantioselective Diels–Alder reaction of Danishefsky-type diene and electron-deficient olefins to give the adducts in good to excellent yield and enantiomeric excess (ee).

C-Glucosylflavonoid biosynthesis from 2-hydroxynaringenin by *Desmodium uncinatum* (Jacq.) (Fabaceae) pp 5656–5659
Mary L. Hamilton, John C. Caulfield, John A. Pickett, Antony M. Hooper^{*}

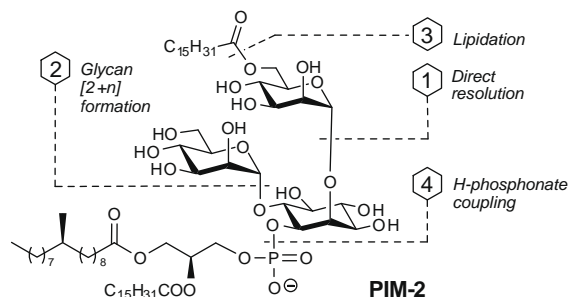
2-Hydroxynaringenin is C-glucosylated by UDP-glucose and a protein extract from *Desmodium uncinatum* leaves to afford vitexin and isovitexin. This is the first committed step to C-glucosylflavonoids, a biologically active class of natural compounds.

Facile and convenient strategy towards synthesis of 4-substituted 2-aminothiazolo[4,5-d]pyridazinones pp 5660–5663
Amol A. Thorave, Pinkal N. Prajapati, Jignesh P. Pethani, Krupal C. Kothari, Mukul R. Jain, Pankaj R. Patel, Rajendra K. Kharul^{*}

Total synthesis of a fully lipidated form of phosphatidyl-*myo*-inositol dimannoside (PIM-2) of *Mycobacterium tuberculosis*

pp 5664–5666

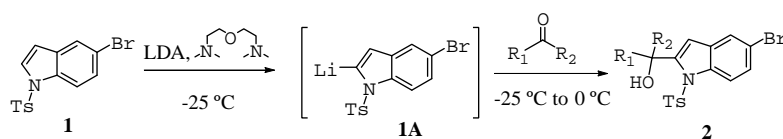
Asif Ali, Markus R. Wenk, Martin J. Lear *



Stabilizing *N*-tosyl-2-lithioindoles with bis(*N,N*-dimethylaminoethyl) ether—a non-cryogenic procedure for lithiation of *N*-tosylindoles and subsequent addition to ketones

pp 5667–5669

Jiang-Ping Wu *, Sanjit Sanyal, Zhi-Hui Lu, Chris H. Senanayake



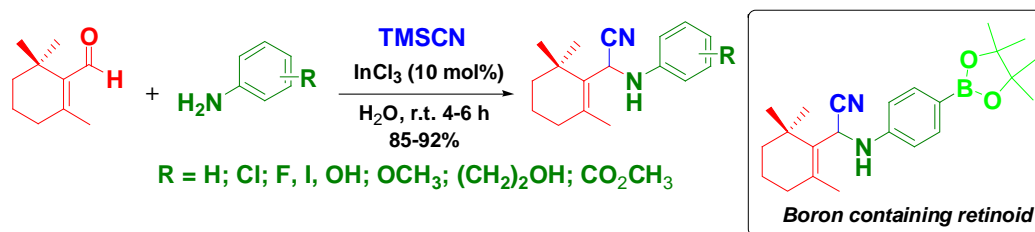
A practical procedure suitable for large scale lithiation of *N*-tosylindoles and subsequent addition to ketones is described. Bis(*N,N*-dimethylaminoethyl) ether was found to stabilize 2-lithio-*N*-tosylindole **1A** at $-25\text{ }^\circ\text{C}$ [The temperatures cited are internal temperatures unless otherwise stated]. Addition of this reagent allows the lithiation of *N*-tosyl indoles and subsequent addition to ketones to operate at $-25\text{ }^\circ\text{C}$, a temperature suitable for large scale reactions.



Design and synthesis of α -aminonitrile-functionalized novel retinoids

pp 5670–5672

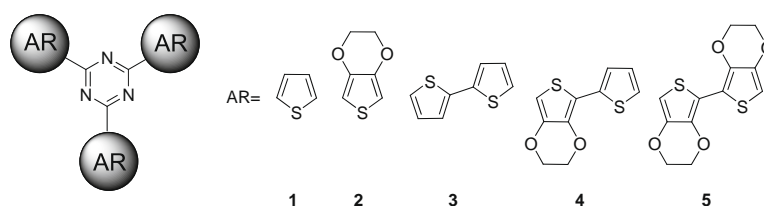
Bhaskar C. Das *, Jaime Anguiano, Sakkarapalayam M. Mahalingam



Star-shaped triazine–thiophene conjugated systems

pp 5673–5676

Philippe Leriche *, Flavia Piron, Emilie Ripaud, Pierre Frère, Magali Allain, Jean Roncali



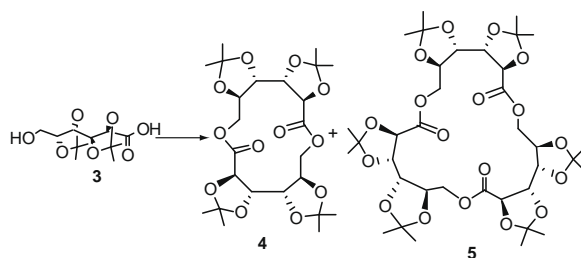
A series of triazine derivatives substituted with thiophenic pendant groups have been synthesized by Stille coupling, their spectroscopic and electrochemical properties are presented and discussed.



Cyclic oligomers (macroaldonolactones) from a protected D-galactonic acid monomer

pp 5677–5680

C. Lorena Romero Zaliz, Oscar Varela *

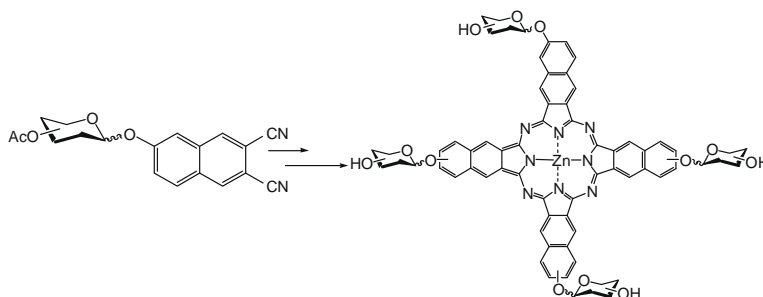


Macrocyclic lactones **4** and **5** were prepared by cyclization of the respective dimer and trimer linear precursors obtained by self-condensation of the D-galactonic acid derivative **3**.

**Anomerically glycosylated zinc(II) naphthalocyanines**

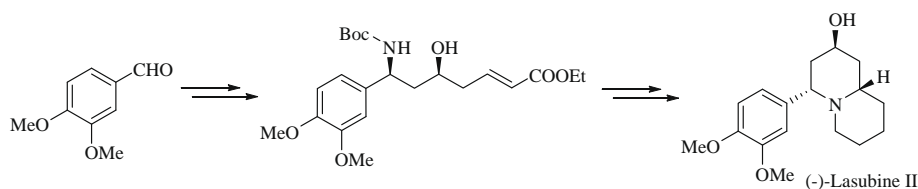
pp 5681–5685

Zafar Iqbal, Alexey Lyubimtsev, Michael Hanack *, Thomas Ziegler *

**Enantioselective synthesis of (-)-lasubine II**

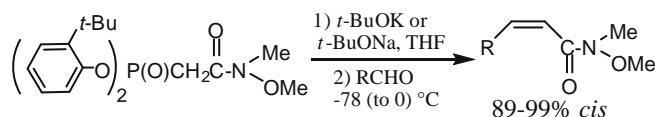
pp 5686–5688

S. Chandrasekhar *, R. V. N. S. Murali, Ch. Raji Reddy

**Bis(2-*t*-butylphenyl)phosphonoacetamides for the highly *cis*-selective synthesis of α,β -unsaturated amides**


pp 5689–5691

Kaori Ando *, Shigeo Nagaya, Yuko Tarumi



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*Corresponding author

 Supplementary data available via ScienceDirect

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