

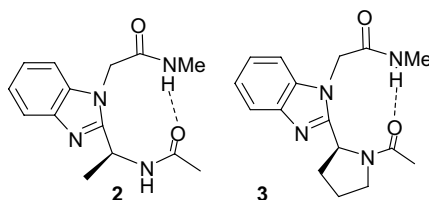
Contents

COMMUNICATIONS

Synthesis and conformational analysis of benzimidazole-based reverse turn mimics

pp 1293–1296

Giordano Lesma, Alessandro Sacchetti *, Alessandra Silvani



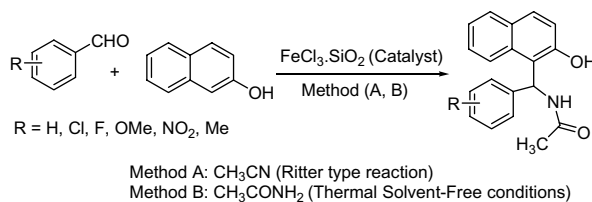
New benzimidazole-based tetrapeptide mimics were synthesized and their conformational features were studied by NMR and molecular modeling techniques. All the analyses led to the conclusion that a β -turn is stabilized in both **2** and **3**.



A modified reaction for the preparation of amidoalkyl naphthols

pp 1297–1300

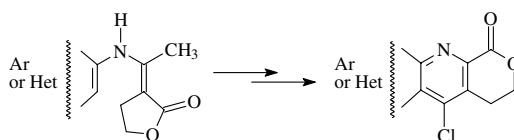
Hamid Reza Shaterian *, Hossein Yarahmadi



An efficient route to a 5,6-dihydropyrano[3,4-*b*]pyridin-8-one core in two steps from enaminolactones

pp 1301–1304

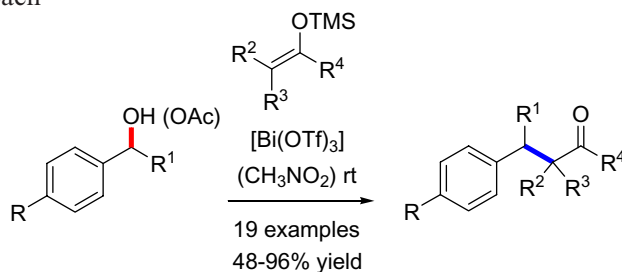
Cheikh Sall, Nicolas Desbois, Sandrine Paquelet, José R. Camacho, Jean Michel Chezal, Jean-Claude Teulade, Yves Blache *



Chemo- and diastereoselective Bi(OTf)₃-catalyzed benzylation of silyl nucleophiles

pp 1305–1309

Philipp Rubenbauer, Thorsten Bach *

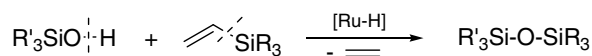


Electron rich (R = MeO, Me) benzylic alcohols or acetates serve as electrophilic reaction partners in the Bi(III)-catalyzed reaction with silyl enol ethers or hydrosilanes.

Silylation of silanols with vinylsilanes catalyzed by a ruthenium complex

pp 1310–1313

Bogdan Marciniak *, Piotr Pawluć, Grzegorz Hreczycho, Anna Macina, Martyna Madalska

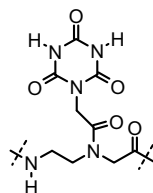


R, R' = alkyl, aryl, siloxy, alkoxy

Cyanuryl peptide nucleic acid: synthesis and DNA complexation properties

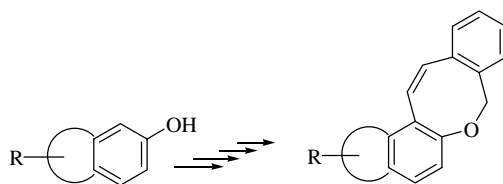
pp 1314–1318

Raman Vysabhatar, K. N. Ganesh *

**Novel synthesis of oxocine derivatives by Wittig olefination and intramolecular Heck reaction via 8-endo trig cyclization**

pp 1319–1322

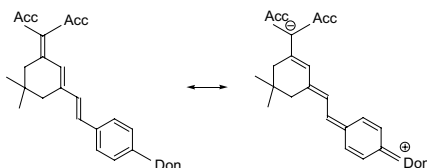
K. C. Majumdar *, B. Chattopadhyay, B. Sinha



Quantification of the push–pull character of the isophorone chromophore as a measure of molecular hyperpolarizability for NLO applications

pp 1323–1327

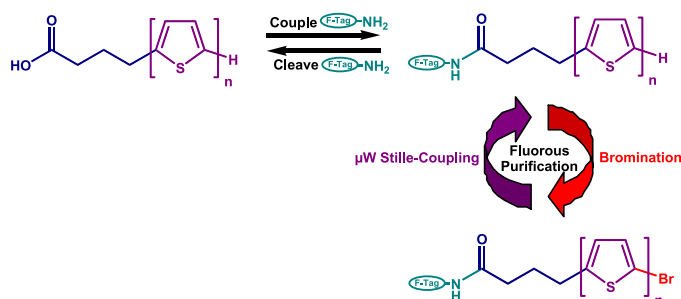
Erich Kleinpeter *, Andreas Koch, Bozhana Mikhova, Bistra A. Stamboliyska, Tsonko M. Kolev



Microwave synthesis and fluororous purification of 4-(tetrathienyl)butyric acid for self-assembled monolayer semiconductor applications

pp 1328–1330

Mark C. McCairn, Fan Huang, Michael L. Turner *

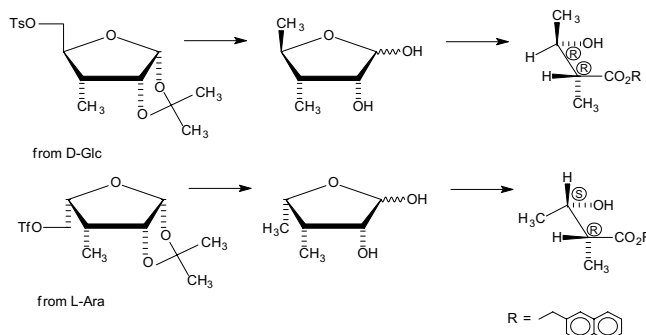


Carbohydrate-based approach to four enantiomerically pure 2-naphthylmethyl 3-hydroxy-2-methylbutanoates

pp 1331–1335

Bogdan Doboszewski, Piet Herdewijn *

The synthesis of the four stereoisomers of 3-hydroxy-2-methylbutanoic acid from carbohydrate precursors is described.

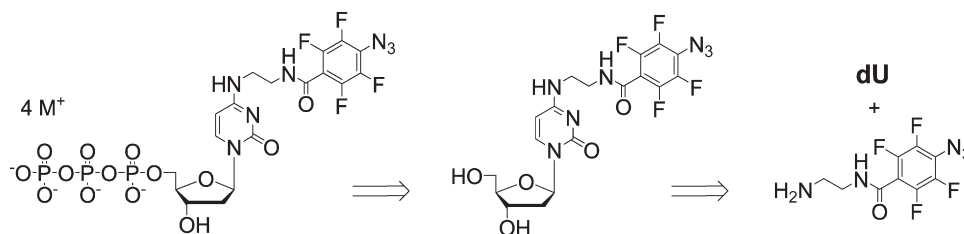


(3S, 2S) and (3R, 2S) compounds were obtained from L-Xyl and D-Ara, respectively

exo-N-[2-(4-Azido-2,3,5,6-tetrafluorobenzamido)ethyl]-dC: a novel intermediate in the synthesis of dCTP derivatives for photoaffinity labelling

pp 1336–1339

Crina Cismaş, Thanasis Gimisis *

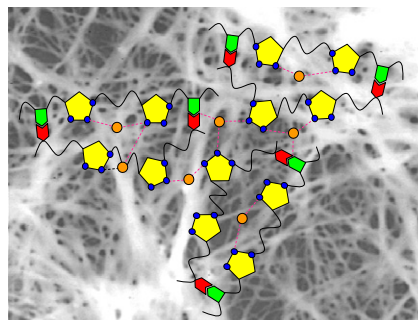


Polymer thermoreversible gels from organogelators enabled by ‘click’ chemistry

pp 1340–1343

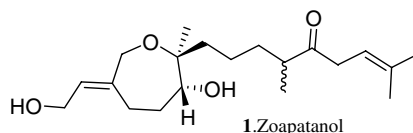
David Díaz Díaz *, José Juan Marrero Tellado, Daniel García Velázquez, Ángel Gutiérrez Ravelo

[1,2,3]-Triazole-based polymers made by means of the copper(I)-catalyzed azide-alkyne [3+2] cycloaddition (CuAAC) exhibit selective gelling ability for DMSO and organic solvent mixtures containing at least 80% DMSO by volume. The organogels were characterized by FT-IR, DSC, TEM, and rheology.

**Synthetic studies toward zoapatanol**

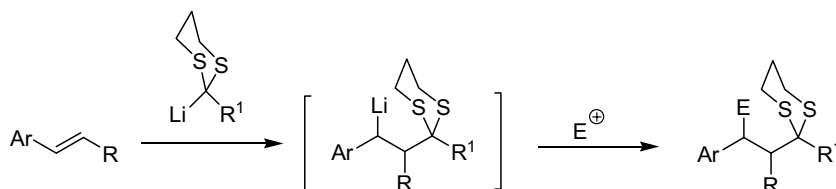
pp 1344–1347

Isela García, Manuel Pérez, Pedro Besada, Generosa Gómez *, Yagamare Fall *

**Carbolithiation of substituted stilbenes and styrenes with dithianyllithiums**

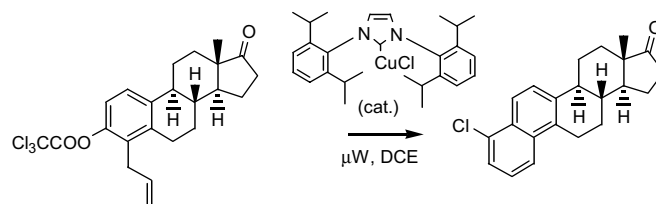
pp 1348–1351

Shouchu Tang, Junjie Han, Jinmei He, Jiyue Zheng, Yongping He, Xinfu Pan, Xuegong She *

**New reactivity patterns of copper(I) and other transition metal NHC complexes: application to ATRC and related reactions**

pp 1352–1356

James A. Bull, Michael G. Hutchings, Cristina Luján, Peter Quayle *

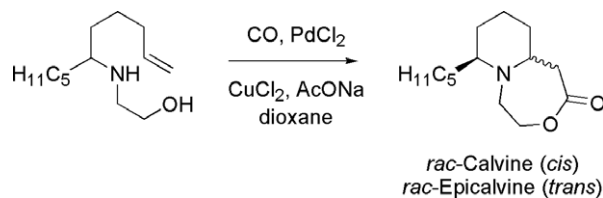


Transition metal–NHC complexes are effective catalysts for the promotion of ATRC reactions

Short racemic syntheses of calvine and epicalvine

pp 1357–1360

Peter Szolcsányi *, Tibor Gracza, Ivan Špánik

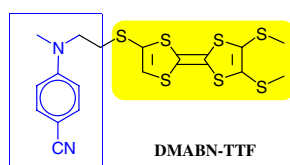


The ladybird beetle alkaloids calvine and epicalvine were prepared in racemic form in 26% combined overall yield over four steps starting from hexanal and pentenyl bromide.

A new 4-(*N,N*-dimethylamino)benzotrile (DMABN) derivative with tetrathiafulvalene unit: modulation of the dual fluorescence of DMABN by redox reaction of tetrathiafulvalene unit

pp 1361–1364

Wei Tan, Deqing Zhang *, Hui Wu, Daoben Zhu *

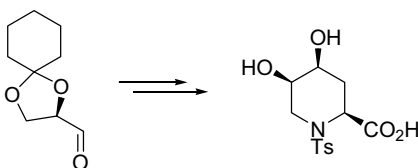


The dual fluorescence behavior of a new derivative of 4-(*N,N*-dimethylamino)benzotrile (DMABN) with TTF unit can be modulated by reversible oxidation and reduction of TTF unit.

**Complementary routes to both enantiomers of pipercolic acid and 4,5-dihydropipercolic acid derivatives**

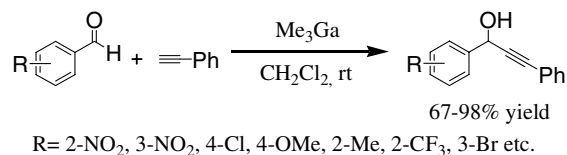
pp 1365–1369

Shital K. Chattopadhyay *, Titas Biswas, Tanmoy Biswas

**Me₃Ga-mediated alkylation of aldehydes**

pp 1370–1372

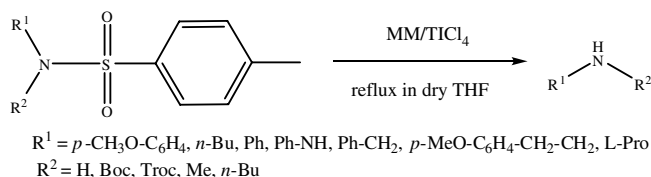
Xuefeng Jia, Hongwei Yang, Ling Fang, Chengjian Zhu *



A mild method for cleavage of *N*-Tos protected amines using mischmetal and TiCl₄

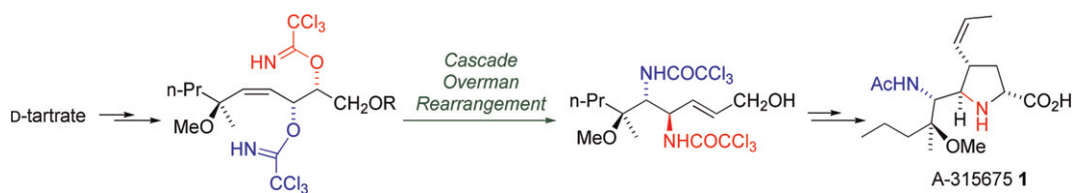
pp 1373–1375

Eerold Vellemäe, Oleg Lebedev, Uno Mäeorg *

**Total synthesis of A-315675 based on the cascade Overman rearrangement**

pp 1376–1379

Takayuki Momose, Naoto Hama, Chiharu Higashino, Hideyuki Sato, Noritaka Chida *

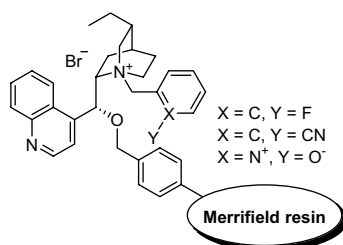


The chiral and stereoselective total synthesis of A-315675 **1**, an antiinfluenza agent, is described. The vicinal diamino moiety in **1** was constructed in a one-step reaction by the cascade sequential Overman rearrangement of a vicinal allylic-homoallylic diol derived from D-tartrate.

**Highly efficient polymer supported phase-transfer catalysts containing hydrogen bond inducing functional groups**

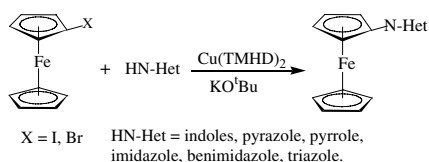
pp 1380–1383

Qinghua Shi, Yeon-Ju Lee, Mi-Jeong Kim, Mi-Kyung Park, Kyoungyim Lee, Hongrui Song, Maosheng Cheng, Byeong-Seon Jeong, Hyeung-geun Park *, Sang-sup Jew *

**Copper bis(2,2,6,6-tetramethyl-3,5-heptanedionate) catalyzed synthesis of *N*-substituted ferrocenes**

pp 1384–1387

Vishal H. Purecha, Nitin S. Nandurkar, Bhalchandra M. Bhanage, Jayashree M. Nagarkar *

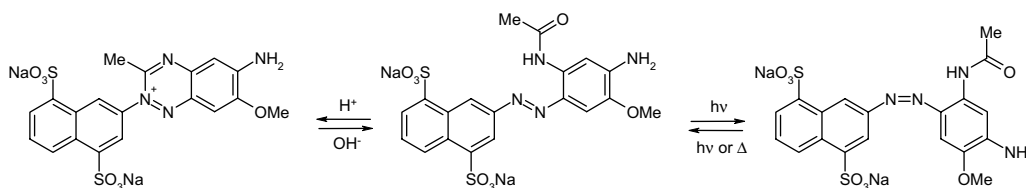


An efficient catalytic protocol for the Ullmann-type coupling reaction of both bromo and iodoferrocene with heterocyclic amines using a stable and well defined copper bis(2,2,6,6-tetramethyl-3,5-heptanedionate) complex has been developed.

Reversible cyclisation of a sulfonated arylazo compound containing an *o*-acetylamino substituent

pp 1388–1392

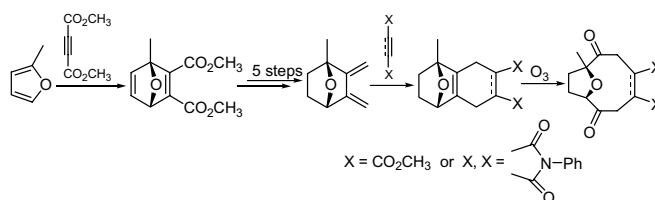
David I. Gibson, John A. Parkinson *, Anita C. Jones, Warren J. Ebenezer, Michael G. Hutchings



An approach to the synthesis of furanoheliangolides through Diels–Alder reactions

pp 1393–1395

Mauricio Gomes Constantino *, Valquiria Aragão, Gil Valdo José da Silva

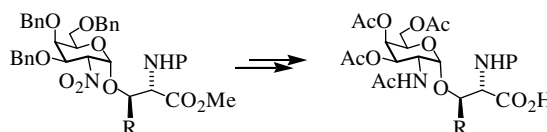


In this Letter we describe an approach involving two Diels–Alder reactions as key steps to build the bicyclic ring system.

Methyl esters: an alternative protecting group for the synthesis of *O*-glycosyl amino acid building blocks

pp 1396–1398

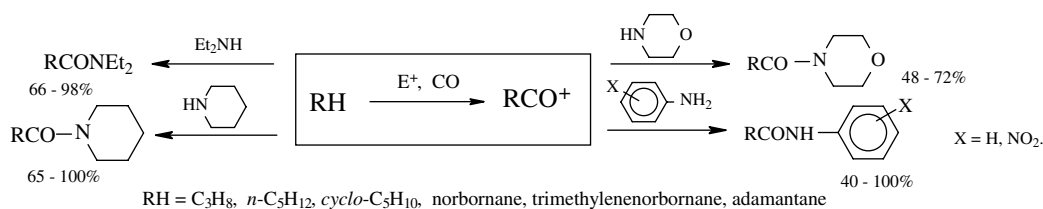
Carlos Mayato, Rosa L. Dorta *, Jesús T. Vázquez *



The first one-pot amidation of alkanes and cycloalkanes

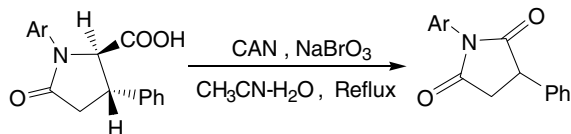
pp 1399–1404

Irena S. Akhrem *, Dzulf'etta V. Avetisyan, Lyudmila Afanas'eva, Sergei V. Vitt, Pavel V. Petrovskii, Alexander Orlinkov



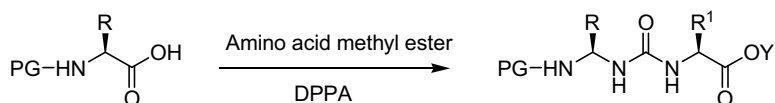
A novel synthetic approach towards *N*-phenylsuccinimides from γ -lactam-2-carboxylic acid derivatives by reaction with CAN–NaBrO₃ pp 1405–1407

Gopa Barman, Mahuya Roy, Jayanta. K. Ray *



A facile and one-pot synthesis of *N*^α-Fmoc/Bsmoc/Boc/Z-protected ureidopeptides and peptidyl ureas employing diphenylphosphoryl azide [DPPA] pp 1408–1412

Vommina V. Sureshbabu *, G. Chennakrishnareddy, N. Narendra

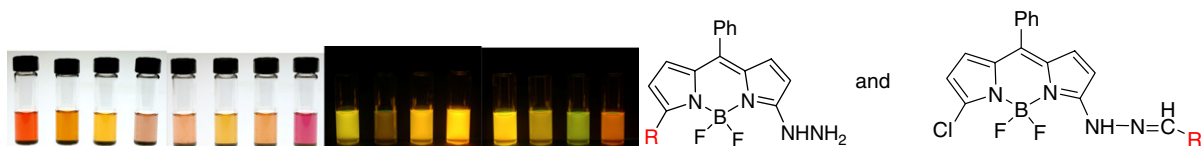


PG = Fmoc, Bsmoc, Boc, Z

The synthesis of *N*-urethane protected α -peptidyl ureas has been accomplished in a single pot employing DPPA as an azide transfer reagent.

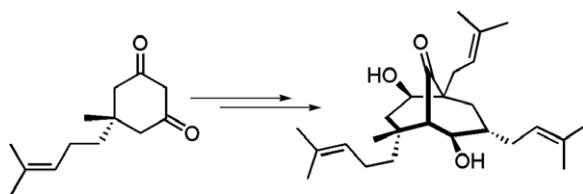
Synthesis of boron dipyrromethene fluorescent probes for bioorthogonal labeling pp 1413–1416

Özlem Dilek, Susan L. Bane *



A concise approach towards the bicyclo[3.3.1]nonan-9-one core present in the phloroglucin natural product hyperforin pp 1417–1420

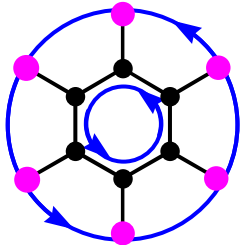
Goverdhan Mehta *, Mrinal K. Bera



Evidence from current-density mapping for σ -delocalisation in the aromatic hexaiodobenzene cation

pp 1421–1424

Remco W. A. Havenith, Patrick W. Fowler *, Stijn Fias, Patrick Bultinck

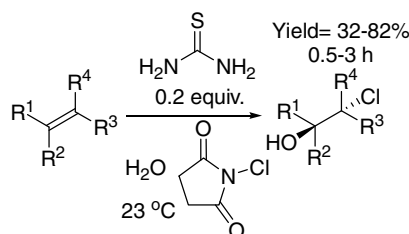
Double aromaticity of $C_6I_6^{2+}$

A high σ -delocalisation, accompanied by a four-electron σ -ring current, in the iodine periphery of the hexaiodobenzene cation provides direct evidence for σ -aromaticity co-existing with the conventional π -aromaticity of the benzene ring.

Thiourea catalysis of NCS in the synthesis of chlorohydrins

pp 1425–1427

Paul A. Bentley *, Yujiang Mei, Juan Du

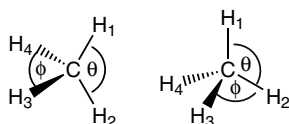


Thiourea catalysis of reactions utilizing *N*-succinimides is demonstrated with NCS chlorination of olefins in the presence of water causing a significant increase in the reaction rate and yield of the chlorohydrin.

**The Baeyer strain is strongly affected by the nucleus–electron attraction—a comment on the Letter of G. Hohlneicher and L. Packschies [Tetrahedron Lett. 2007, 48, 6429–6433]**

pp 1428–1431

Danijela Barić, Zvonimir B. Maksić *



*Corresponding author

Supplementary data available via ScienceDirect

Abstracted/indexed in: AGRICOLA, Beilstein, BIOSIS Previews, CAB Abstracts, Chemical Abstracts, Chemical Engineering and Biotechnology Abstracts, Current Biotechnology Abstracts, Current Contents: Life Sciences, Current Contents: Physical, Chemical and Earth Sciences, Current Contents Search, Derwent Drug File, Ei Compendex, EMBASE/Excerpta Medica, Medline, PASCAL, Research Alert, Science Citation Index, SciSearch. Also covered in the abstract and citation database SCOPUS®. Full text available on ScienceDirect®



ELSEVIER

ISSN 0040-4039