

Tetrahedron Letters Vol. 51, No. 45, 2010

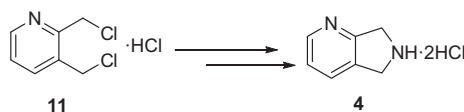
Contents

COMMUNICATIONS

A facile synthesis of 2,3-azaisoindoline

pp 5859–5860

Subas M. Sakya*, Michel Van Den Berg, Kees Pouwer, John M. Humphrey, Christopher J. Helal, Christopher J. O'Donnell

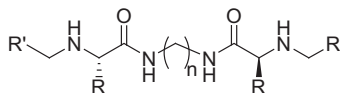


2,3-Azaisoindoline (**4**) was prepared via reaction of dichloride **11** with 2,4-dimethoxybenzyl amine followed by deprotection with trifluoroacetic acid and triethylsilane. Isolation of the unstable 2,3-azaisoindoline **4** was facilitated by conversion to the bis-HCl.

Gemini amphiphilic pseudopeptides: synthesis and preliminary study of their self-assembling properties

pp 5861–5867

Jenifer Rubio, Ignacio Alfonso*, Miriam Bru, M. Isabel Burguete, Santiago V. Luis*



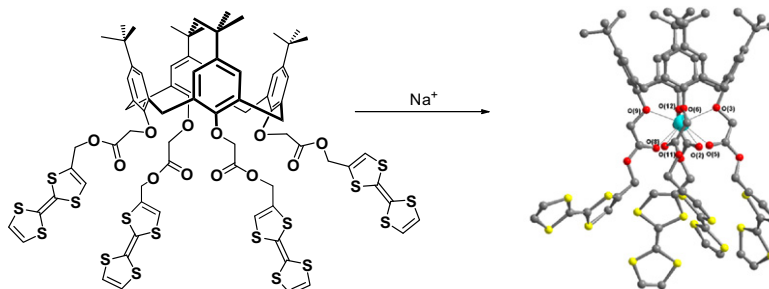
The synthesis of a family of Gemini Amphiphilic Pseudopeptide (GAP) molecules by a reductive amination reaction has been carried out. Preliminary studies showed the abilities of the GAPs to self-assemble into supramolecular nanostructures.



An electron-rich three dimensional receptor based on a calixarene-tetrathiafulvalene assembly

pp 5868–5872

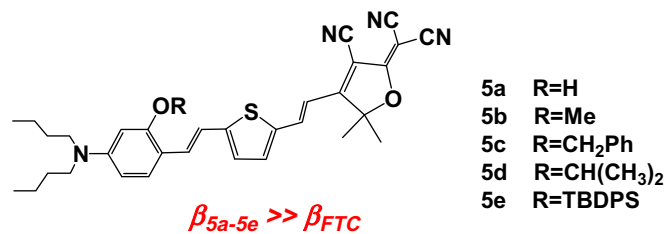
Joël Lyskawa, David Canevet, Magali Allain, Marc Sallé*



Effect of modified donor units on molecular hyperpolarizability of thienyl-vinylene nonlinear optical chromophores

pp 5873–5876

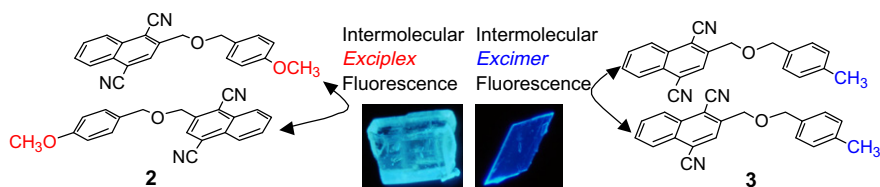
Xianmin Zhang, Isao Aoki, Xianqing Piao, Shinichiro Inoue, Hidehisa Tazawa, Shiyoshi Yokoyama*, Akira Otomo*



Control of the CT interaction between electron-donor and -acceptor moieties of a 1,4-dicyanonaphthalene-arene dyad for intermolecular exciplex or excimer formation in crystals

pp 5877–5880

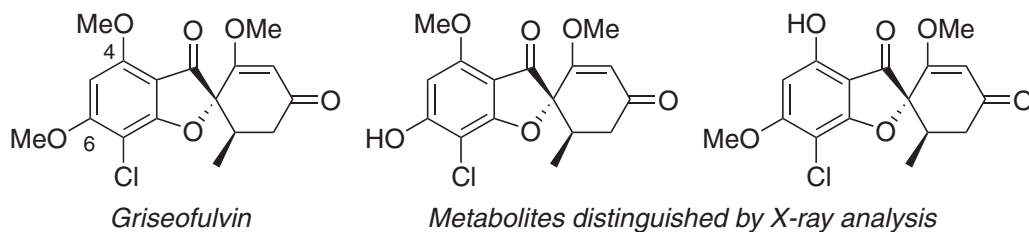
Mitsutaka Imoto, Hiroshi Ikeda*, Maki Ohashi, Motonori Takeda, Akihiro Tamaki, Hisaji Taniguchi, Kazuhiko Mizuno*



Synthesis and single crystal X-ray analysis of two griseofulvin metabolites

pp 5881–5882

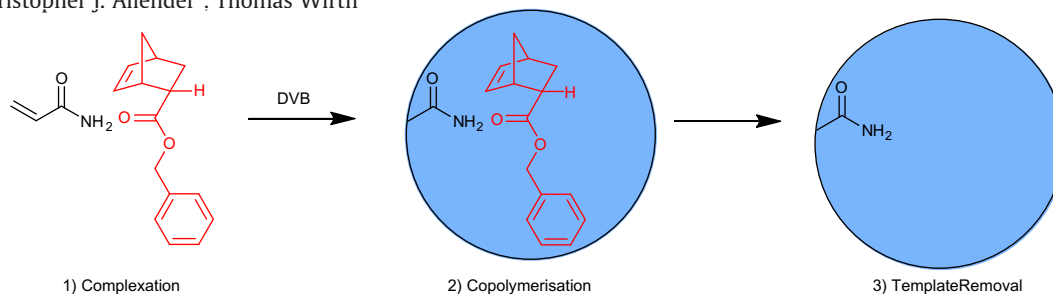
Mads H. Rønneest, Pernille Harris, Charlotte H. Gotfredsen, Thomas O. Larsen, Mads H. Clausen*



Molecular imprinted polymers binding low functionality templates

pp 5883–5885

Yvonne Luk, Christopher J. Allender*, Thomas Wirth*



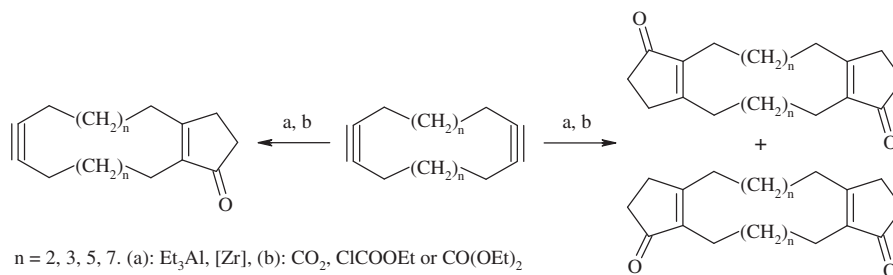
A series of highly specific molecular imprinted polymer (MIP) imprinted with a small, low functionality and bicyclic *endo*-product of a Diels–Alder reaction was prepared. The selectivity of the MIPs was evaluated on the basis *endo/exo* discrimination.



An efficient one-pot method for the synthesis of mono- and biscyclopentenones via zirconium-catalyzed cycloalumination of cyclic alkynes and diynes

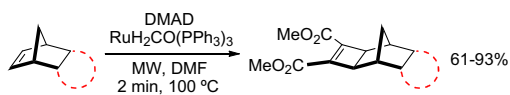
pp 5886–5888

Vladimir A. D'yakonov*, Regina A. Tuktarova, Usein M. Dzhemilev

**Rapid synthesis of cyclobutene diesters using a microwave-accelerated ruthenium-catalysed [2+2] cycloaddition**

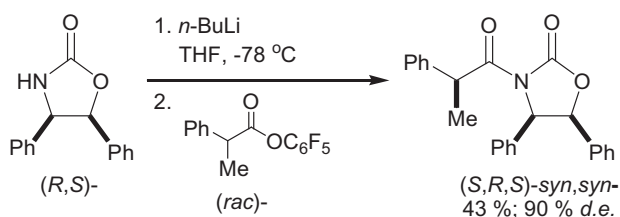
pp 5889–5891

Mark D. Johnstone, Adam J. Lowe, Luke C. Henderson, Frederick M. Pfeffer*

**Resolution of pentafluorophenyl esters using oxazolidin-2-ones**

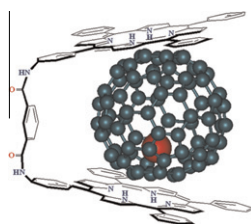
pp 5892–5895

Najla Al Shaye, Jason Eames*

**Molecular recognition of La@C_{82} endohedral metallofullerene by an isophthaloyl-bridged porphyrin dimer**

pp 5896–5899

Georgia Pagona, Solon P. Economopoulos, Takayuki Aono, Yasumitsu Miyata, Hisanori Shinohara*, Nikos Tagmatarchis*



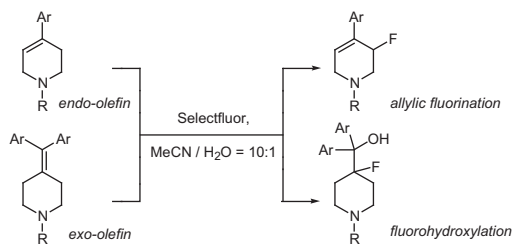
La@C_{82} is recognized by an isophthaloyl-bridged porphyrin dimer forming a stable 1:1 supramolecular complex.



Selectfluor-promoted fluorination of piperidinyl olefins

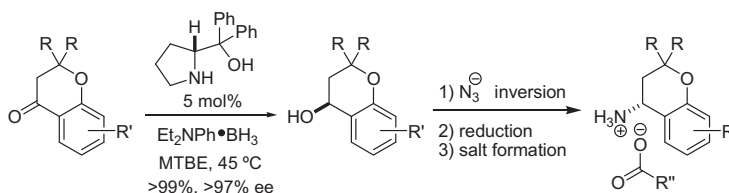
pp 5900–5903

Meng-Yang Chang*, Nien-Chia Lee, Ming-Fang Lee, Yu-Ping Huang, Chung-Han Lin

**Efficient and general asymmetric syntheses of (*R*)-chroman-4-amine salts**

pp 5904–5907

Eric A. Voight*, Jerome F. Daanen, Steven M. Hannick, Bhadra H. Shelat, Francis A. Kerdesky, Daniel J. Plata, Michael E. Kort

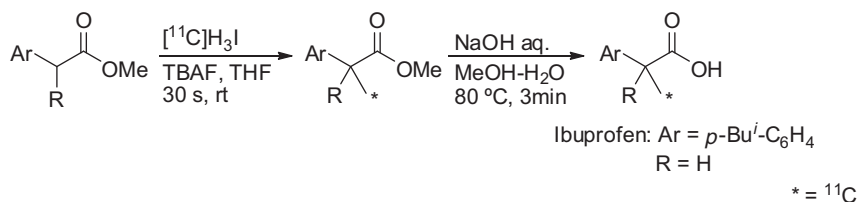


Starting from a variety of substituted chroman-4-ones, a highly enantioselective CBS reduction using in situ-generated B–H catalyst gave (*S*)-chroman-4-ols. Azide inversion and reduction gave crude (*R*)-chroman-4-amines, which could be purified without chromatography by isolation as the (*R*)-mandelic or *D*-tartaric acid salts with good yields and excellent ee.

Tetrabutylammonium fluoride-promoted α -[¹¹C]methylation of α -arylesters: a simple and robust method for the preparation of ¹¹C-labeled ibuprofen

pp 5908–5911

Koichi Kato*, Tatsuya Kikuchi, Nobuki Nengaki, Takuya Arai, Ming-Rong Zhang

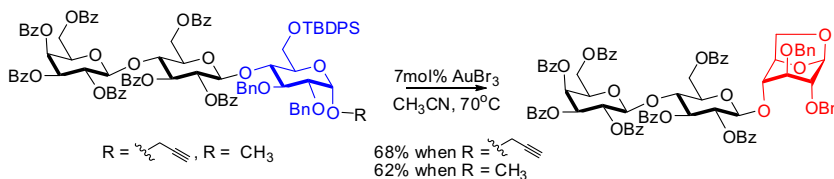


Tetrabutylammonium fluoride-promoted α -[¹¹C]methylation of α -arylesters was developed. The method was amenable to the remote-controlled synthesis of ¹¹C-labeled ibuprofen.

**Gold-catalyzed glycosidations: synthesis of 1,6-anhydro saccharides**

pp 5912–5914

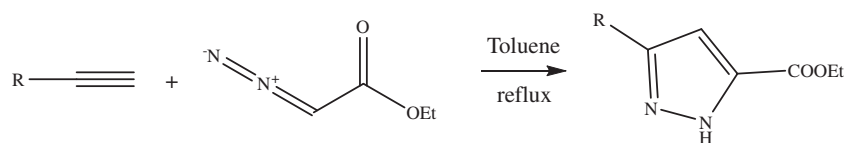
Shivaji A. Thadke, Srinivas Hotha*



A facile synthesis of pyrazoles with multi-point structural diversity by 1,3-dipolar cycloaddition

pp 5915–5918

Kwai Ming J. Cheung, Jóhannes Reynisson, Edward McDonald*



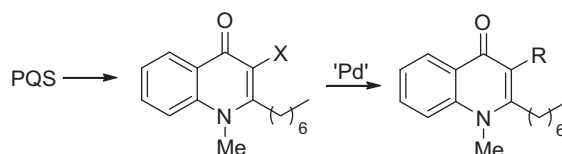
R = Alkyl, Heteroaryl, Aryl

Yield = 10–80 %

**Synthesis of 3-halo-analogues of HHQ, subsequent cross-coupling and first crystal structure of *Pseudomonas* quinolone signal (PQS)**

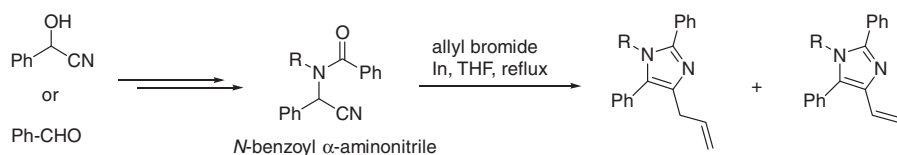
pp 5919–5921

Gerard P. McGlacken*, Christina M. McSweeney, Timothy O'Brien, Simon E. Lawrence, Curtis J. Elcoate, F. Jerry Reen, Fergal O'Gara

**Synthesis of fully-substituted alkenylimidazoles from *N*-(cyanoalkyl)amides via the In-mediated allylation of nitrile and dehydrative cyclization cascade**

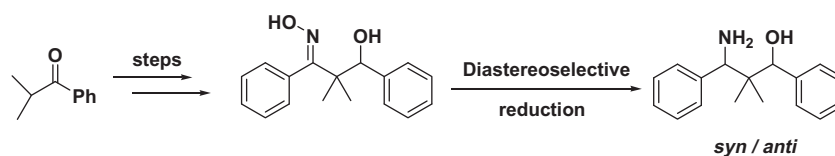
pp 5922–5926

Yu Mi Kim, Sangku Lee, Sung Hwan Kim, Ko Hoon Kim, Jae Nyoung Kim*

**A stereocontrolled route to the synthesis of (±)-3-amino-2,2-dimethyl-1,3-diphenylpropan-1-ol**

pp 5927–5929

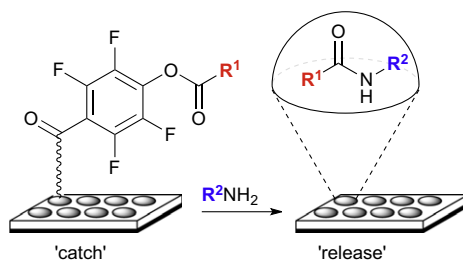
M. N. Patil, K. C. Bhowmick, N. N. Joshi*



High throughput 'catch-and-release' synthesis within spatially discrete gel arrays

pp 5930–5932

Christine M. Boehner, David M. Marsden, Hannah F. Sore, David Norton, David R. Spring*

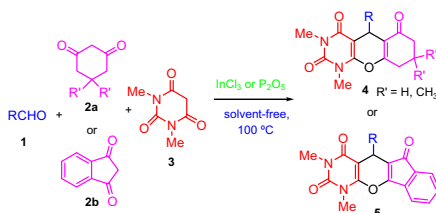


The development of tetrafluorophenol acrylamide 3D gels as an effective platform for the synthesis of small molecules has been achieved. Furthermore, this offers the potential to synthesise and screen compounds for biological activity on the same slide.

**Application of cyclic-1,3-diketones in domino and multicomponent reactions: facile route to highly functionalized chromeno[2,3-d]pyrimidinones and diazabenzob[*b*]fluorenes under solvent-free conditions**

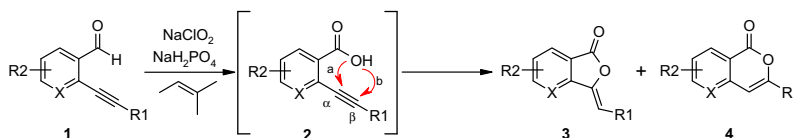
pp 5933–5936

Ram Kumar, Keshav Raghuvanshi, Rajiv K. Verma, Maya S. Singh*

**One-pot synthesis of phthalides via regioselective intramolecular cyclization from *ortho*-alkynylbenzaldehydes**

pp 5937–5939

Jim Li*, Elbert Chin, Alfred S. Lui, Lijing Chen

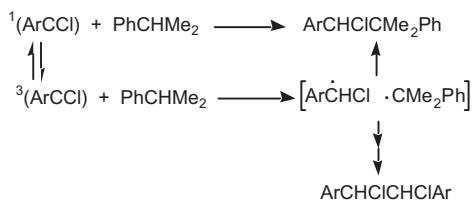


A one-pot synthesis of phthalides via an intramolecular 5-*exo-dig* cyclization of *ortho*-alkynylbenzaldehydes under mild NaClO₂ oxidation conditions is described.

Triplet halocarbene chemistry: *p*-nitrophenylchlorocarbene and *p*-nitrophenylbromocarbene

pp 5940–5942

Robert A. Moss*, Zhifeng Lu, Ronald R. Sauers*



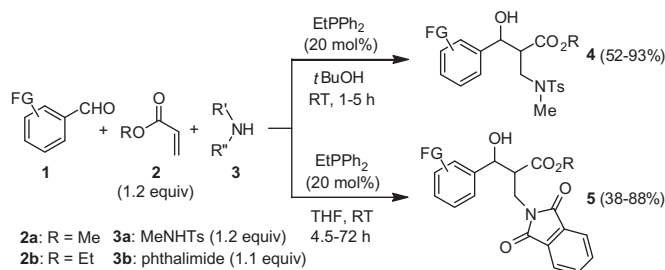
Reactions of *p*-nitrophenylchlorocarbene with cumene and of *p*-nitrophenylbromocarbene with toluene afford C–H abstraction–recombination products that suggest the involvement of triplet arylhalocarbenes.



Tandem three-component reaction of aldehyde, alkyl acrylate, and amide using ethyl diphenylphosphine as organocatalyst

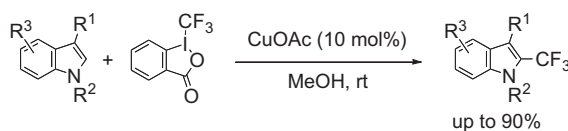
pp 5943–5946

Siang-en Syu, De-Wei Wang, Pei-yi Chen, Yi-Ting Hung, Yi-Wun Jhang, Tzu-Ting Kao, Yu-Ting Lee, Wenwei Lin*

**Direct C2-trifluoromethylation of indole derivatives catalyzed by copper acetate**

pp 5947–5949

Ryo Shimizu, Hiromichi Egami, Tatsuya Nagi, Jungha Chae, Yoshitaka Hamashima, Mikiko Sodeoka*

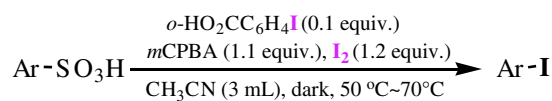


C2-selective trifluoromethylation of indole derivatives with hypervalent iodine reagent proceeded smoothly in the presence of copper acetate under mild conditions with good yield.

Desulfonyloxyiodination of arenesulfonic acids with mCPBA and molecular iodine

pp 5950–5953

Yuhsuke Suzuki, Yoshihide Ishiwata, Katsuhiko Moriyama, Hideo Togo*

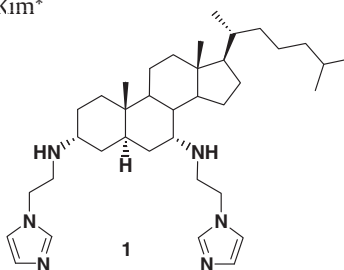


Ar: *p*-chlorophenyl, phenyl, *p*-tolyl, *p*-ethylphenyl, *p*-dodecylphenyl, *p*-(β -bromoethyl)phenyl, etc.

New 2-aminoethylimidazole-based dicarboxylic acid receptor derived from cholestane

pp 5954–5958

Jyoti Ramesh Jadhav, Md. Wasi Ahmad, Hong-Seok Kim*



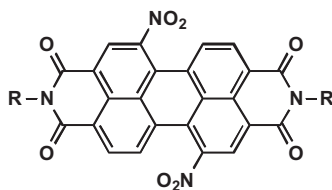
A new facial amphiphile cholestane-based receptor **1** containing 2-imidazoleylethylamino moiety at the 3 α and 7 α positions of cholestane was synthesized. Recognition selectivity of the new receptor **1** with various dicarboxylic acids was assessed by ^1H NMR titration. Maleic acid showed the highest binding constant among all the tested acids ($K_a = 9.36 \times 10^4 \text{ M}^{-1}$).



1,7-Dinitroperylene bisimides: facile synthesis and characterization as *n*-type organic semiconductors

pp 5959–5963

Kew-Yu Chen*, Tahsin J. Chow*



*Corresponding author

Supplementary data available via ScienceDirect

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