

Tetrahedron Letters Vol. 49, No. 28, 2008

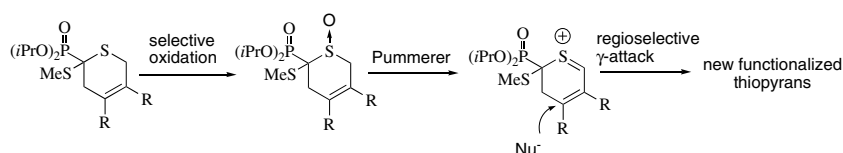
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COMMUNICATIONS

Pummerer-type reactions in the (2-methylsulfanyl-2-phosphonyl) thiopyran 1-oxide series

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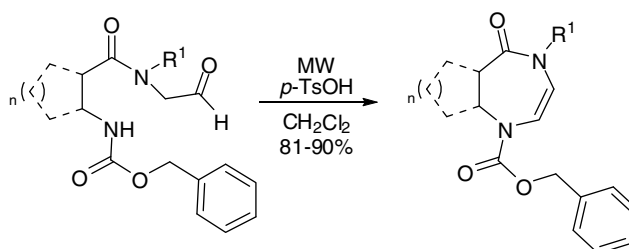
Mickaël Denancé, Remi Legay, Annie-Claude Gaumont, Mihaela Gulea \*



A novel, microwave-assisted method for the synthesis of alicyclic-condensed 5H-1,4,6,7-tetrahydro-1,4-diazepin-5-ones

pp 4333–4335

Árpád Balázs, Erik Van der Eycken, Ferenc Fülöp \*

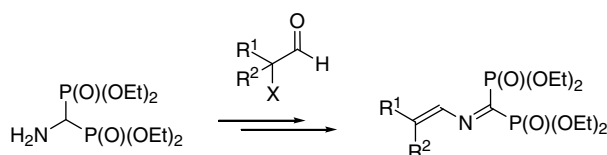


*cis* n = 1, 2  
*trans* n = 2 R<sup>1</sup> = Me, PMB

Synthesis of 1,1-bisphosphono-2-aza-1,3-dienes, a new class of electron-deficient azadienes

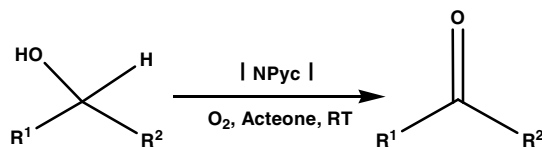
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Kurt G. R. Masschelein, Christian V. Stevens \*



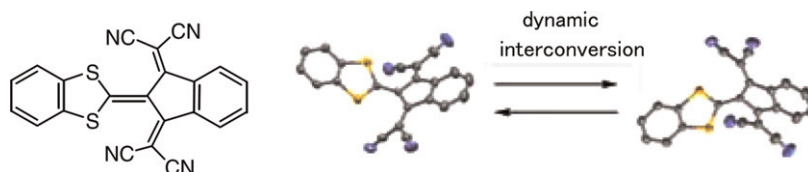
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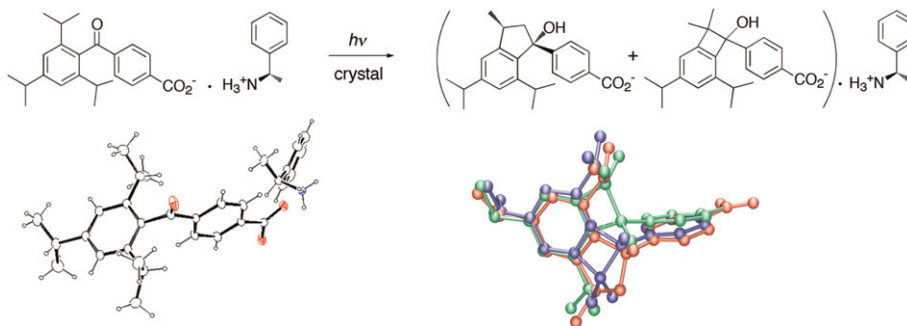
**Novel push-pull  $\pi$ -conjugated compounds suffering steric hindrance between donor and acceptor subunits** pp 4342–4345

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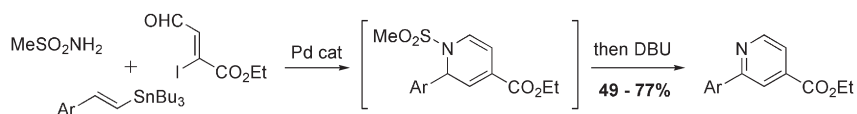
**Single-crystal-to-single-crystal photocyclization of 4-(2,4,6-triisopropylbenzoyl)benzoic acid in the salt crystal with (S)-phenylethylamine** pp 4346–4348

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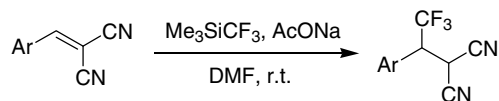
**A novel strategy for the synthesis of 2-arylpyridines using one-pot 6 $\pi$ -aza-electrocyclization** pp 4349–4351

Toyoharu Kobayashi, Sho Hatano, Hiroshi Tsuchikawa, Shigeo Katsumura \*

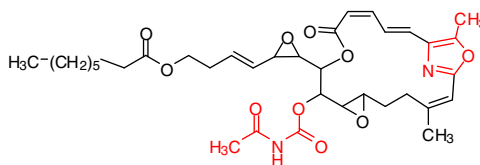


**Nucleophilic trifluoromethylation of arylidenemalononitriles**

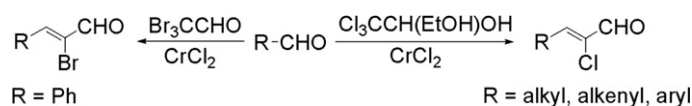
pp 4352–4354

Alexander D. Dilman <sup>\*</sup>, Vitalij V. Levin, Pavel A. Belyakov, Marina I. Struchkova, Vladimir A. TartakovskyMichael addition of the CF<sub>3</sub>-carbanion to arylidenemalononitriles is described.**Salarin C, a new cytotoxic sponge-derived nitrogenous macrolide**

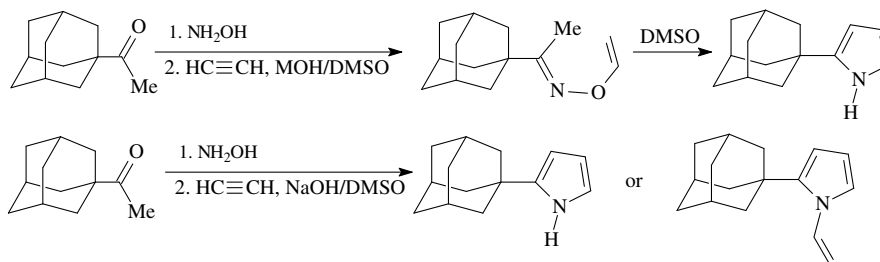
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Ashgan Bishara, Amira Rudi, Maurice Aknin, Drorit Neumann, Nathalie Ben-Califa, Yoel Kashman <sup>\*</sup>**Salarin C (3)****Convenient preparation of (Z)-α-halo-α,β-unsaturated aldehydes: synthesis of a *Laurencia flexilis* toxin**

pp 4359–4361

Deb K. Barma, Biao Lu, Rachid Baati <sup>\*</sup>, Charles Mioskowski, J. R. Falck <sup>\*</sup>**A short-cut from 1-acetyl adamantane to 2-(1-adamantyl)pyrroles**

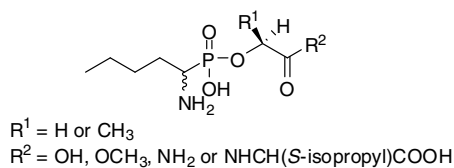
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Boris A. Trofimov <sup>\*</sup>, Elena Yu. Schmidt, Nadezhda V. Zorina, Elena Yu. Senotrusova, Nadezhda I. Protsuk, Igor A. Ushakov, Al'bina I. Mikhaleva, Rachel Méallet-Renault, Gilles Clavier

**Synthesis of norleucine-derived phosphonopeptides**

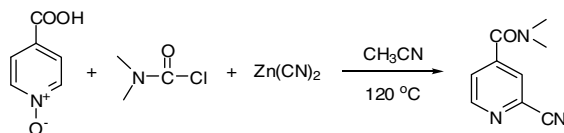
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Jan Pícha, Miloš Buděšínský, Miloslav Šanda, Jiří Jiráček \*

**Zinc cyanide mediated direct  $\alpha$ -cyanation of isonicotinic acid N-oxide. Application to the synthesis of FYX-051, a xanthine oxidoreductase inhibitor**

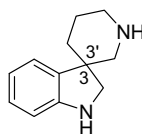
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Zhibao Huo, Teruo Kosugi, Yoshinori Yamamoto \*

**Convenient synthesis of 1,1'-H-spiro[indoline-3,3'-piperidine]**

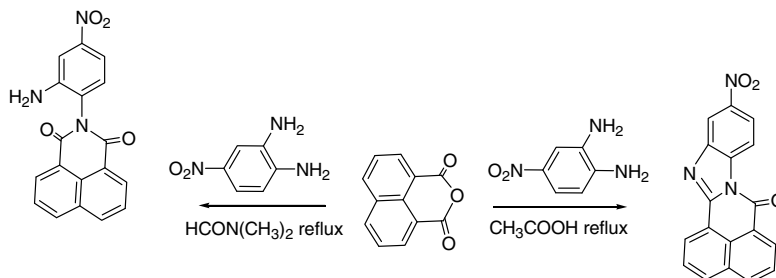
pp 4372–4373

Jeffrey A. Pfefferkorn †, Chulho Choi

**Solvation controlling reaction paths and gel-formation in imide derivatives**

pp 4374–4377

Devendra Singh, Jubaraj B. Baruah \*



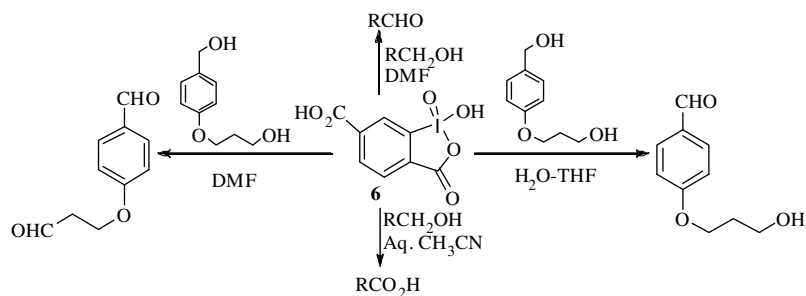
Solvation plays an important role in imide formation and also influences the gelation of some imides.



**Expedient synthesis and solvent dependent oxidation behavior of a water-soluble IBX derivative**

pp 4378–4382

Amitha Kommreddy, Michael S. Bowsher, Meena R. Gunna, Kirankumar Botha, Thottumkara K. Vinod \*

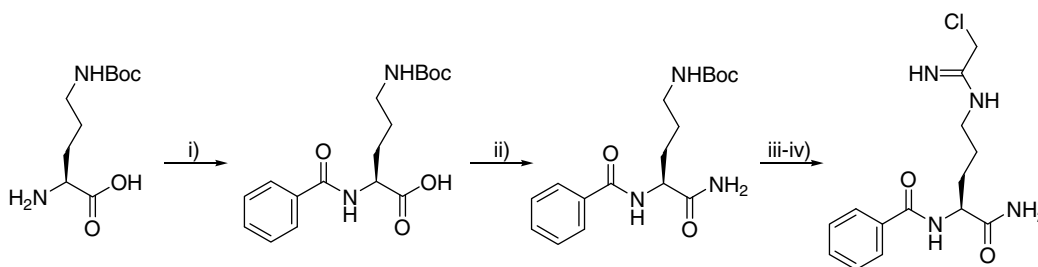


IBX derivative **6**, readily synthesized from 2-aminoterephthalic acid, exhibits unique solvent dependent selectivity in its oxidation behavior.

**An improved synthesis of haloacetamide-based inactivators of protein arginine deiminase 4 (PAD4)**

pp 4383–4385

Corey P. Causey, Paul R. Thompson \*

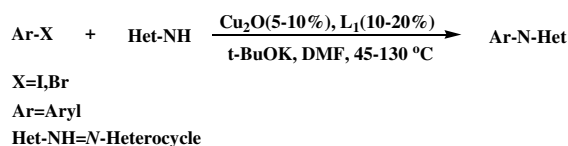


Cl-amidine, a haloacetamide-based PAD4 inactivator, is a lead compound for the development of a novel rheumatoid arthritis therapeutic. Herein we present a cost effective solution phase synthetic route that can be used to generate gram scale quantities of the compound for animal studies.

 **$\beta$ -Ketoimine as an efficient ligand for copper-catalyzed N-arylation of nitrogen-containing heterocycles with aryl halides**

pp 4386–4389

Fei Xue, Chengyi Cai, Hongmei Sun \*, Qi Shen, Jiao Rui

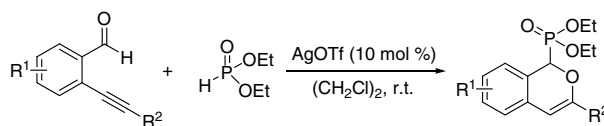


An efficient copper catalyst system, Cu<sub>2</sub>O/ $\beta$ -ketoimine L<sub>1</sub>, for the N-arylation of nitrogen-containing heterocycles with aryl halides has been developed.

**Synthesis of 1H-isochromen-1-ylphosphonates via AgOTf-catalyzed reaction of 2-alkynylbenzaldehyde with diethyl phosphite**

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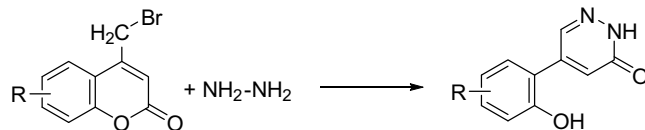
Xingxin Yu, Qiuping Ding, Weizi Wang, Jie Wu \*



**5-Phenylpyridazinones-A serendipitous route from coumarins**

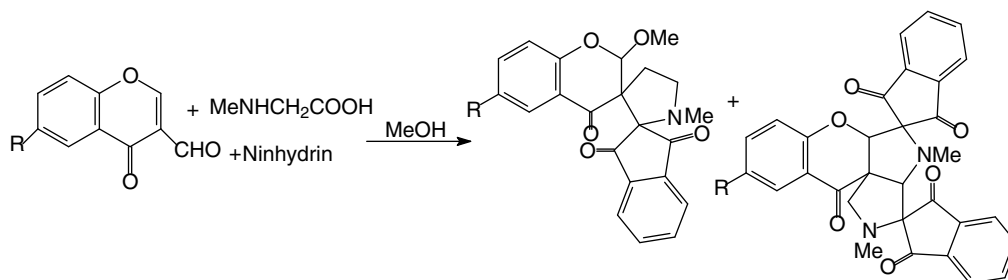
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Manjunath D. Ghate, Vithal B. Jadhav, Lokesh A. Shastri, Manohar V. Kulkarni \*, Geetha M. Kulkarni, Chih-Hau Chen, Chung-Ming Sun \*

**Synthesis of dispiropyrrolidines from chromone-3-carbaldehyde using sarcosine and ninhydrin as the source of an azomethine ylide**

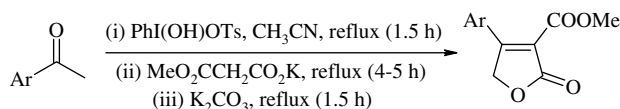
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Suman Kalyan Panja, Partha Karmakar, Jishnunil Chakraborty, Tarun Ghosh, Chandrakanta Bandyopadhyay \*

**A novel one-pot synthesis of 3-carbomethoxy-4-arylfuran-2-(5H)-ones from ketones using [hydroxy(tosyloxy)iodo]benzene**

pp 4402–4404

Nandkishor N. Karade \*, Sumeet V. Gampawar, Jeevan M. Kondre, Sandeep V. Shinde

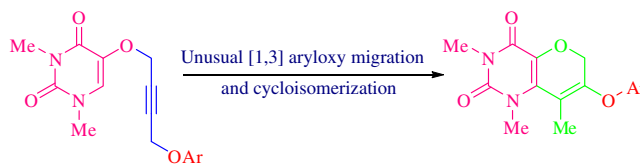


A novel one-pot procedure for the synthesis of 3-carbomethoxy-4-arylfuran-2-(5H)-ones is reported via  $\alpha$ -tosyloxylation of enolisable ketones with [hydroxy(tosyloxy)iodo]benzene, followed by treatment with potassium monomethyl malonate and  $K_2CO_3$ .

**Regioselective synthesis of pyrano[3,2-c]pyrimidine derivatives via a palladium-catalyzed unusual [1,3] aryloxy shift and cycloisomerization: first report of a [1,3] shift of an aryloxy group**

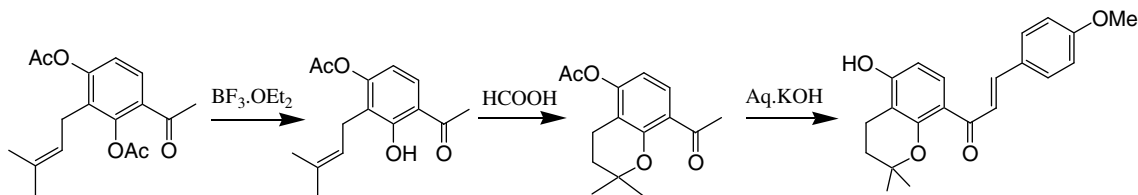
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K. C. Majumdar \*, B. Sinha, B. Chattopadhyay, K. Ray

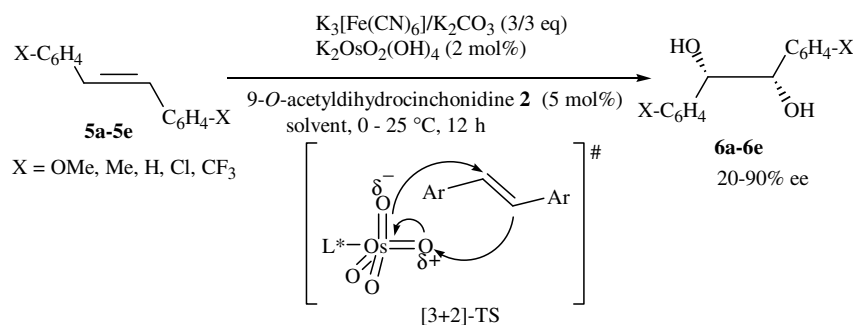


**BF<sub>3</sub>·OEt<sub>2</sub> mediated regioselective deacetylation of polyacetoxyacetophenones and its application in the synthesis of natural products** pp 4409–4415

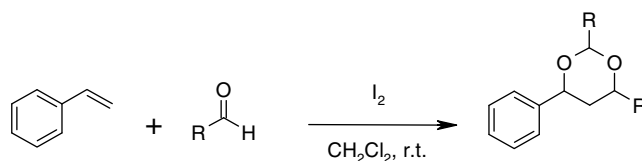
T. Narender \*, K. Papi Reddy, Brijesh Kumar

**Catalytic asymmetric dihydroxylation of substituted *trans*-stilbene derivatives: implications of the variation of enantioselectivities on the mechanism of OsO<sub>4</sub> addition to olefins** pp 4416–4419

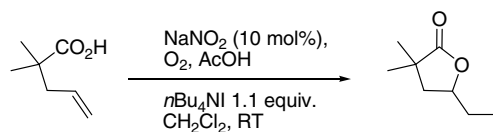
Mariappan Periasamy \*, Sakilam Satish Kumar, N. Sampath Kumar

**Iodine as a mild and versatile reagent for the synthesis of 1,3-dioxane derivatives via the Prins reaction** pp 4420–4423

J. S. Yadav \*, B. V. Subba Reddy, A. V. Hara Gopal, G. G. K. S. Narayana Kumar, C. Madavi, A. C. Kunwar

**Sodium nitrite (NaNO<sub>2</sub>) catalysed iodo-cyclisation of alkenes and alkynes using molecular oxygen** pp 4424–4426

Hongjun Liu, Yuanhang Pan, Choon-Hong Tan \*

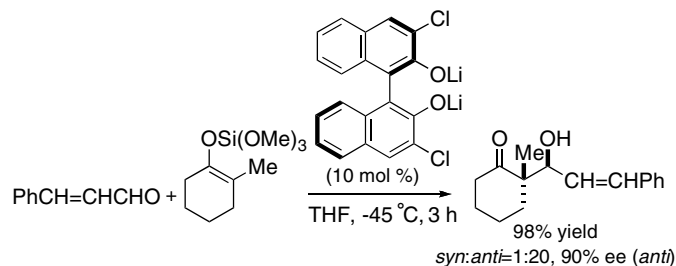


We have developed a convenient iodo-cyclisation reaction using NaNO<sub>2</sub> as catalyst and molecular oxygen as the terminal oxidant. The reactive species, acetyl hypoiodite (IOAc), was generated in situ from TBAI and AcOH. The iodo-cyclisation reaction with a range of alkenes and alkynes gave good to excellent yields. Iodo-amination products can also be obtained using carbamates prepared from commercially available allylic alcohols and alkynic alcohols.

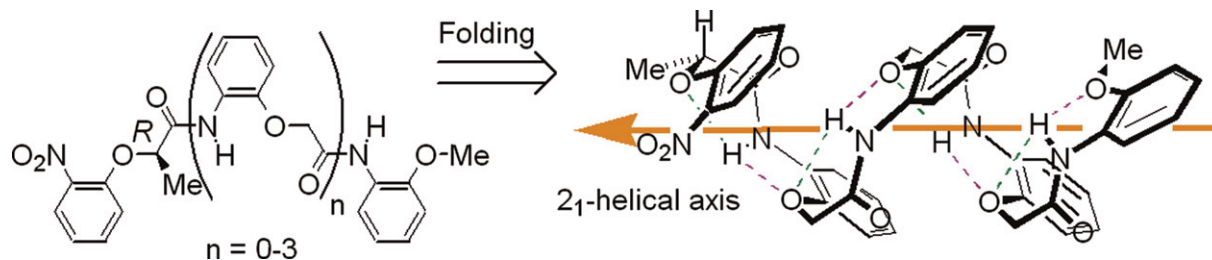


**Enantioselective construction of quaternary asymmetric carbon centers using an aldol reaction of trimethoxysilyl enol ethers catalyzed by lithium binaphtholate** pp 4427–4429

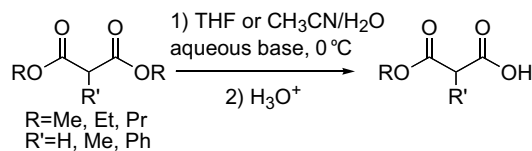
Tomonori Ichibakase, Yuya Orito, Makoto Nakajima \*


**Induced helix of 2-(2-aminophenoxy)alkanoic acid oligomers as a  $\delta$ -peptidomimetic foldamer** pp 4430–4433

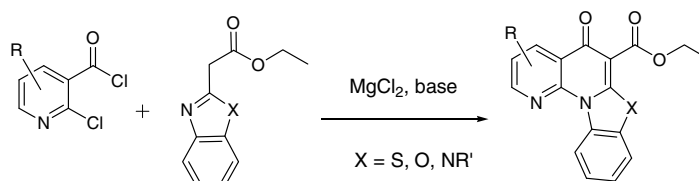
Motohiro Akazome \*, Yuichi Ishii, Tatsuya Nireki, Katsuyuki Ogura \*


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Satomi Niwayama \*, Hanjoung Cho, Chunlei Lin


**A novel and efficient synthesis of 3-carboxy-4-oxo-1,8-naphthyridines using magnesium chloride** pp 4437–4442

Peter C. Chua \*, Johnny Y. Nagasawa, Fabrice Pierre, Michael K. Schwaebe, Anne Vialettes, Jeffrey P. Whitten

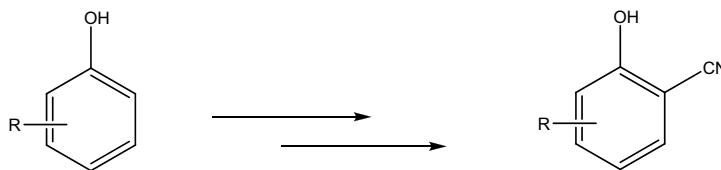




**A one-pot synthesis of substituted salicylnitriles**

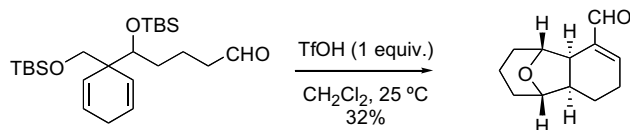
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Hany F. Anwar, Trond Vidar Hansen \*

**An improved protocol for the Prins desymmetrisation of cyclohexa-1,4-dienes**

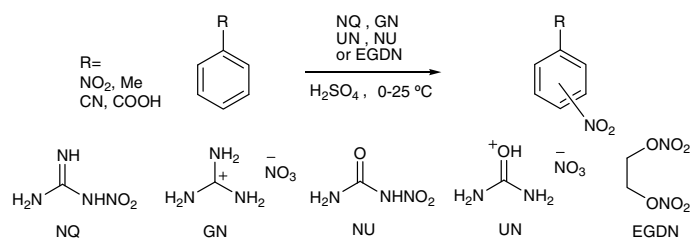
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Michael Butters, Mark C. Elliott \*, Joseph Hill-Cousins, James S. Paine, Alexander W. J. Westwood

**Aromatic nitration using nitroguanidine and EGDN**

pp 4449–4451

Jimmie C. Oxley \*, James L. Smith, Jesse S. Moran, Jonathan N. Canino, Joseph Almog



**OTHER CONTENT****Calendar****pp I–II**

\*Corresponding author

+ Supplementary data available via ScienceDirect**COVER**

Peptidomimetic foldamers were synthesized by oligomerizing derivatives of the  $\delta$ -amino acid analogue, 2-(2-aminophenoxy)alkanoic acid. The combination of both motifs A and B formed a three-centered hydrogen bond and a chelated (or bifurcated) hydrogen bond. By the concave hydrogen bonding network, a new type of helical foldamer was demonstrated.

*Tetrahedron Letters* **2008**, 49, 4430–4433.

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