

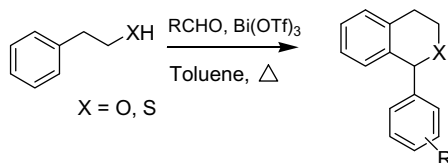
Tetrahedron Letters Vol. 49, No. 38, 2008

Contents

COMMUNICATIONS

Bismuth triflate-catalyzed oxa- and thia-Pictet–Spengler reactions: access to iso- and isothio-chroman compounds pp 5449–5451

Christian Lherbet ^{*}, David Soupaya, Cécile Baudoin-Dehoux, Chantal André, Casimir Blonski, Pascal Hoffmann

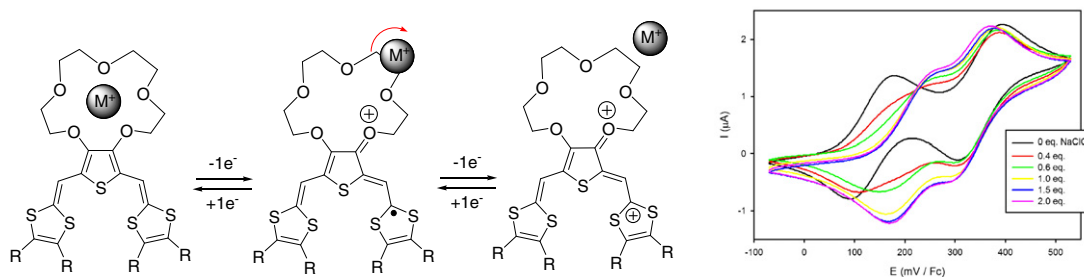


A new route to functionalized iso(thio)chromans is described. The compounds are accessible easily in a one pot-reaction by using different aldehydes and phenylethanethiol or phenylethanol in presence of bismuth triflate.



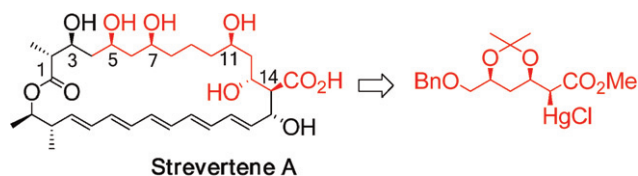
An extended tetrathiafulvalene redox-ligand incorporating a thiophene spacer pp 5452–5454

Gaëlle Trippé, David Canevet, Franck Le Derf, Pierre Frère ^{*}, Marc Sallé ^{*}



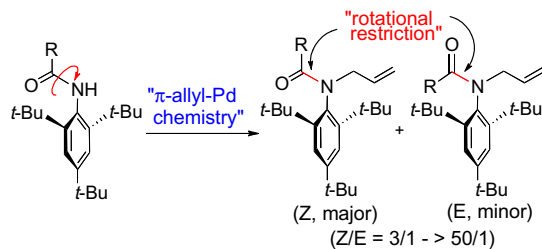
A first convergent synthesis of the polyolic fragment of the antifungal pentaene macrolide strevertene A pp 5455–5457

Carlo Bonini ^{*}, Lucia Chiummiento ^{*}, Maria Funicello, Paolo Lupattelli, Valeria Videtta

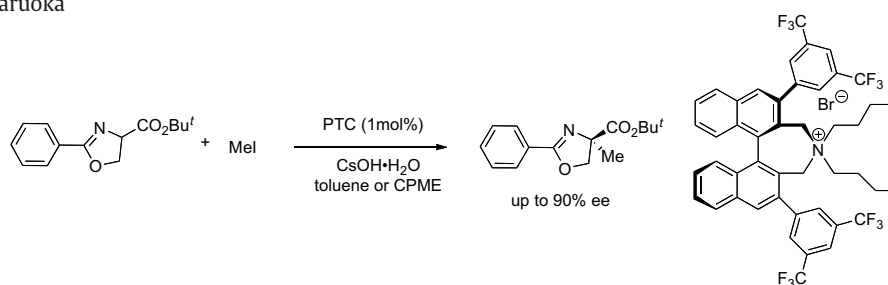


Stereoselective synthesis of separable amide rotamers using π -allyl-Pd catalyst and their thermodynamic behavior pp 5458–5460

Nobutaka Ototake, Takeo Taguchi, Osamu Kitagawa *

**Practical asymmetric synthesis of α -methylserine derivatives under mild phase-transfer conditions** pp 5461–5463

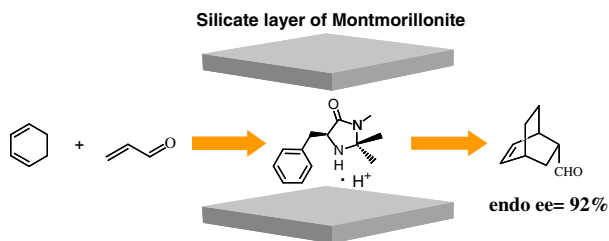
Keiji Nakayama, Keiji Maruoka *



The enantioselective methylation reaction of phenylloxazoline *tert*-butyl ester under mild phase-transfer conditions provides optically active α -methylserine derivatives in moderate yields with high enantioselectivity.

Reusable montmorillonite-entrapped organocatalyst for asymmetric Diels–Alder reaction pp 5464–5466

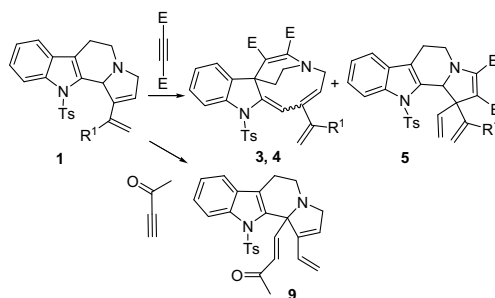
Takato Mitsudome, Kenta Nose, Tomoo Mizugaki, Koichiro Jitsukawa, Kiyotomi Kaneda *



A mont-entrapped chiral organocatalyst acted as a highly efficient and reusable heterogeneous catalyst for the asymmetric Diels–Alder reaction, without loss of its initial activity.

Novel domino reactions in β -carbolines with triple bonded dienophiles pp 5467–5470

Álvaro González-Gómez, Gema Domínguez, Ulises Amador, Javier Pérez-Castells *



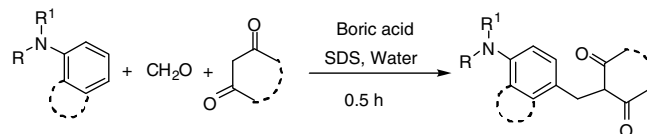
Vinylpyrrolo-[2,1-*a*]- β -carbolines **1** give different products upon reaction with dienophiles.



An unusual Mannich type reaction of tertiary aromatic amines in aqueous micelles

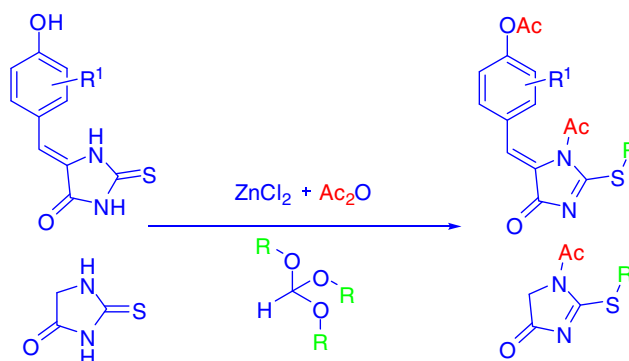
pp 5471–5474

Atul Kumar *, Ram Awatar Maurya

**A one-pot chemoselective S-alkylation and acetylation of thiohydantoins using the alkyl orthoformate–ZnCl₂–Ac₂O reagent system**

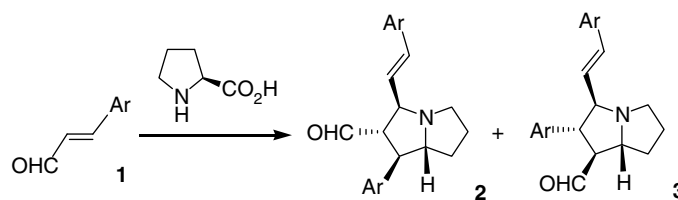
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Ravi Kumar, Prem M. S. Chauhan *

**Proline-mediated dimerization of cinnamaldehydes via 1,3-dipolar cycloaddition reaction with azomethine ylides. A rapid access to highly functionalized hexahydro-1H-pyrrolizine**

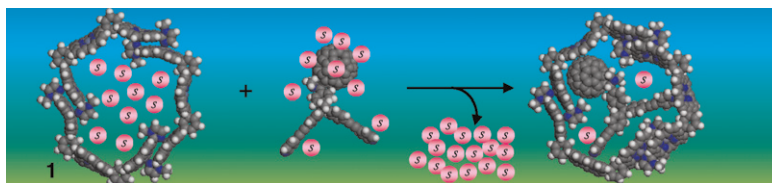
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Bor-Cherng Hong *, Kwan-Liang Liu, Chih-Wei Tsai, Ju-Hsiou Liao

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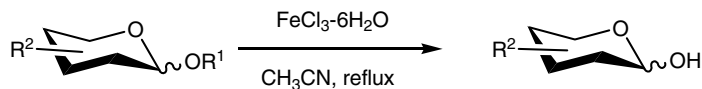
Zafer Uyar, Akiharu Satake *, Yoshiaki Kobuke *, Shun Hirota *



Selective cleavage of sugar anomeric *O*-acyl groups using $\text{FeCl}_3 \cdot 6\text{H}_2\text{O}$

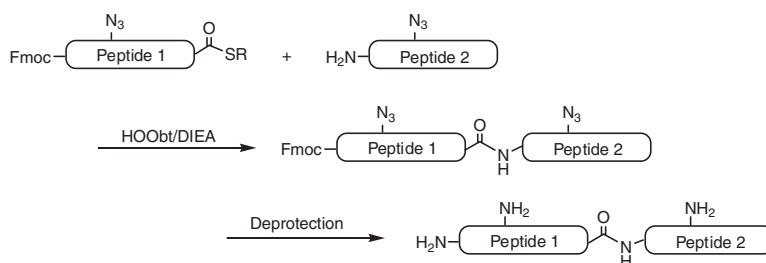
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Guohua Wei, Lei Zhang, Chao Cai, Shuihong Cheng, Yuguo Du *

R¹ = Ac, Bz, NO₂, PivR² = OAc, OBz, OLev, OPiv, OBn, OFmoc, COOMe, NHAc, N₃, NHTroc, NPhth, or sugar units**An efficient peptide ligation using azido-protected peptides via the thioester method**

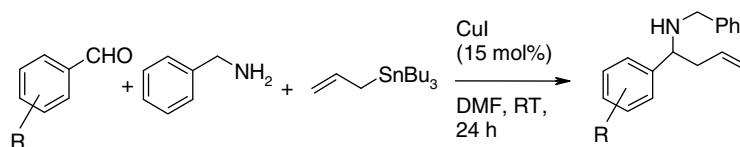
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Hidekazu Katayama, Hironobu Hojo *, Tsuyoshi Ohira, Yoshiaki Nakahara *

**A three-component synthesis of homoallylic amines catalyzed by CuI**

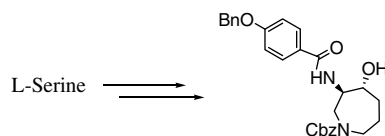
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Pabitra Kumar Kalita, Prodeep Phukan *

**Concise syntheses of stereoisomeric hexahydroazepine derivatives related to the protein kinase inhibitor balanol**

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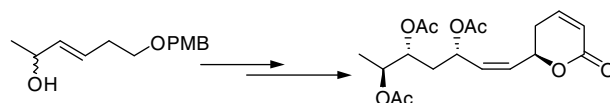
Sankar P. Roy, Shital K. Chattopadhyay *



Total synthesis of hyptolide

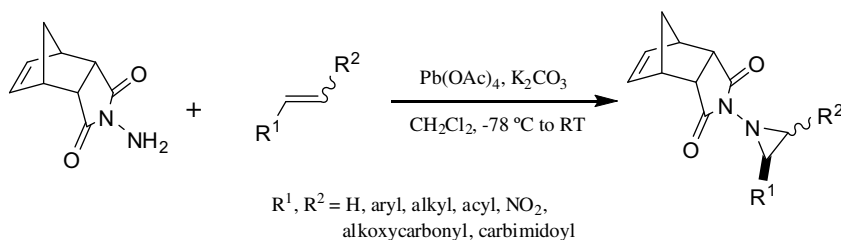
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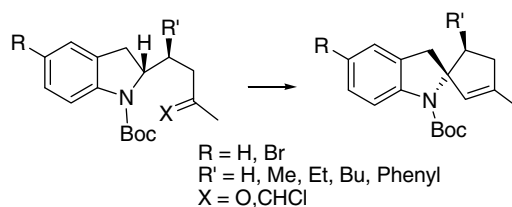
Mikhail Zibinsky, Alexey N. Butkevich *, Mikhail A. Kuznetsov

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**Synthesis of spirocyclopentene-indolines by intramolecular alkylidene insertion reactions**

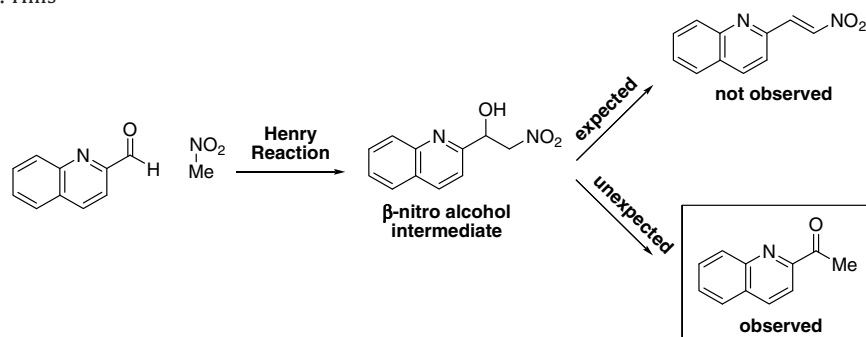
Christopher J. Whipp, Felix Gonzalez-Lopez de Turiso *

pp 5508–5510

**2-Quinolinecarboxaldehyde: an unusual partner in the Henry reaction and subsequent elimination**

Ashley Nomland, Ivory D. Hills *

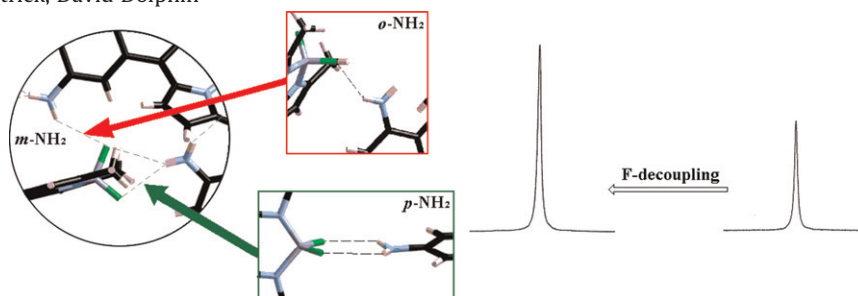
pp 5511–5514



Self-assembly via intermolecular hydrogen-bonding between *o*-/*m*-/*p*-NH₂ and BF₂ groups on dipyrromethenes

pp 5515–5518

Ji-Young Shin, Brian O. Patrick, David Dolphin *

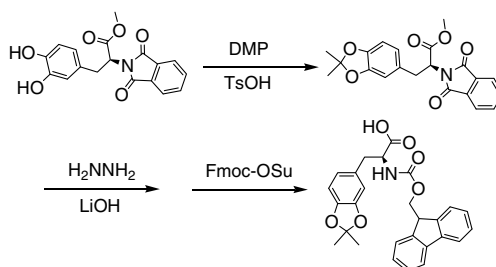


The inductive release of electron density into a dipyrromethene moiety, coordinated to a BF₂ group, from a phenyl group variously substituted by *ortho*- and *para*-amino groups resulted in relatively strong hydrogen-bonding, whereas the *meta*-analog formed only weak hydrogen-bonds.

**Convenient synthesis of acetonide-protected 3,4-dihydroxyphenylalanine (DOPA) for Fmoc solid-phase peptide synthesis**

pp 5519–5521

Zhongqiang Liu, Bi-Huang Hu, Phillip B. Messersmith *



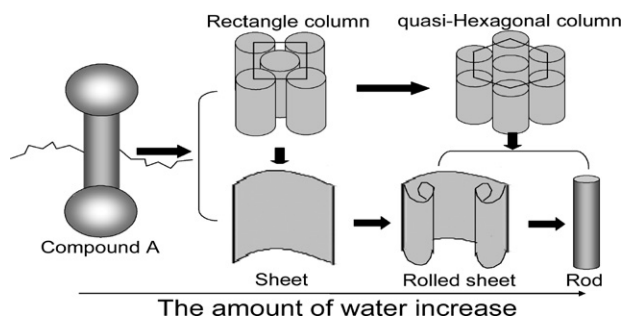
By protecting the amino group of DOPA with a phthaloyl group and the carboxyl group as a methyl ester, acetonide protection of the catechol of DOPA was realized.

**Hierarchical self-assembly of *p*-terphenyl derivative with dumbbell-like amphiphilic and rod-coil characteristics**

pp 5522–5526

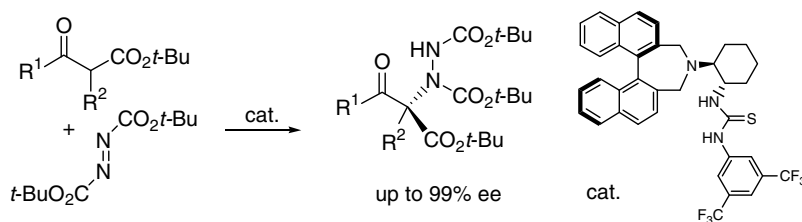
Qilong Zhou, Ting Chen, Jintao Zhang, Lijun Wan, Ping Xie, Charles C. Han, Shouke Yan *, Rongben Zhang *

A *p*-terphenyl derivative hierarchically self-assembles to metastable rectangle columns constructing sheets first and then to stable quasi-hexagonal columns constructing rolled-up sheets, and finally to rod-like nanostructures in MeOH/H₂O solution.

**Catalytic enantioselective electrophilic α -hydrazination of β -ketoesters using bifunctional organocatalysts**

pp 5527–5530

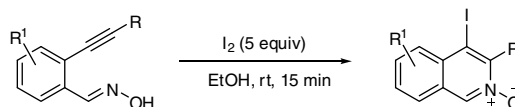
Sun Hee Jung, Dae Young Kim *



Iodine-mediated electrophilic cyclization of 2-alkynylbenzaloximes leading to the formation of iodoisoquinoline *N*-oxides

pp 5531–5533

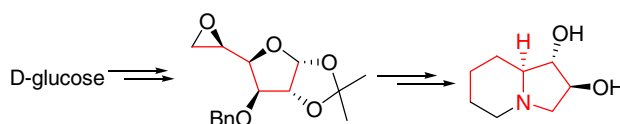
Zhibao Huo, Hisamitsu Tomeba, Yoshinori Yamamoto *



Total synthesis of (+)-lentiginosine from *D*-glucose

pp 5534–5536

Mohammad Abrar Alam, Yashwant D. Vankar *



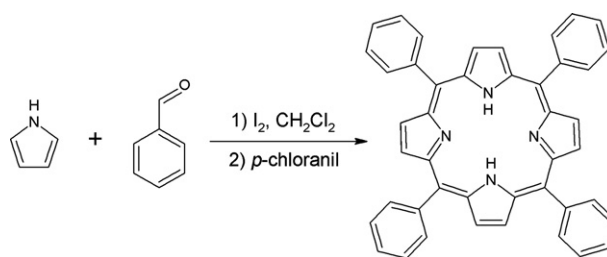
A total synthesis of (+)-lentiginosine, a potent and selective amyloglucosidase inhibitor, is reported from a *D*-glucose-derived epoxide in 38% overall yield. In this synthesis, ambient conditions and readily available starting materials and reagents are used.



A facile and rapid iodine-catalyzed *meso*-tetraphenylporphyrin synthesis using microwave activation

pp 5537–5539

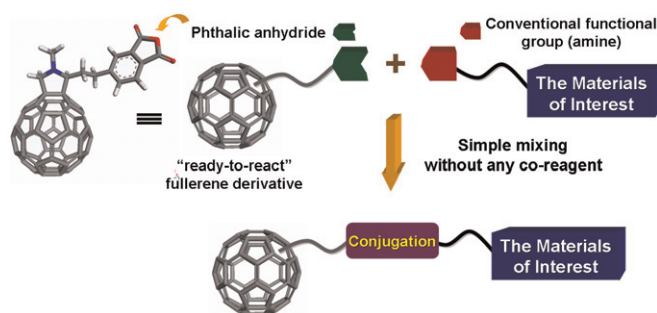
Romain Lucas, Julien Vergnaud, Karine Teste, Rachida Zerrouki *, Vincent Sol, Pierre Krausz



Anhydride-functionalized fullerene: a versatile precursor for fullerene-based materials

pp 5540–5543

Gyu Seong Heo, Bongjin Moon *

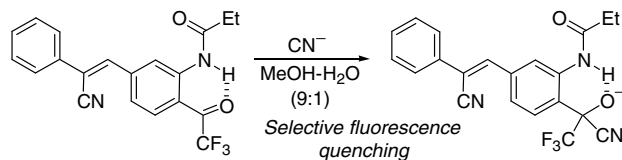


Phthalic anhydride-functionalized fullerene was generated via simple pyrolysis of the corresponding di-*t*-butyl phthalate precursor. This non-chemical method for generating electrophilic fullerene may be advantageous for the preparation of various fullerene-containing materials.



Selective fluorescence sensing of cyanide with an *o*-(carboxamido)trifluoroacetophenone fused with a cyano-1,2-diphenylethylene fluorophore pp 5544–5547

Hanna Lee, Yun Mi Chung, Kyo Han Ahn *

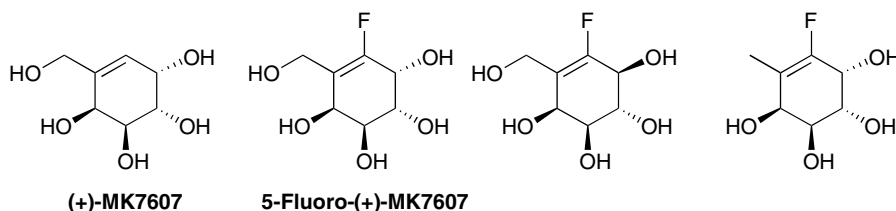


A fluorescence probe based on an *o*-(carboxamido)trifluoroacetophenone binding motif shows selective fluorescence quenching toward cyanide among various anions examined. In particular, the probe responds only to cyanide in aqueous media.



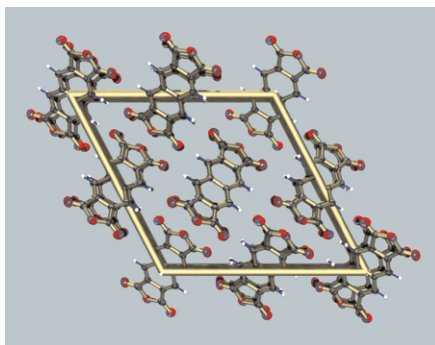
First synthesis of 5-fluoro-(+)-MK7607, its 1-epimer and 6-deoxy derivative pp 5548–5550

João Sardinha, Amelia Pilar Rauter, Matthieu Sollogoub *



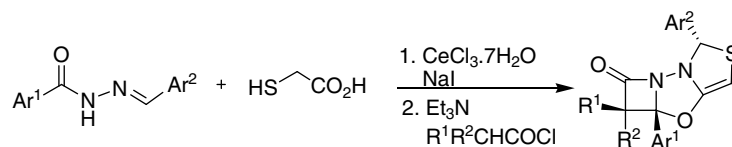
2,3,6,7-Naphthalenetetracarboxylic dianhydride revisited pp 5551–5552

Claude Niebel, Vladimir Lokshin, Vladimir Khodorkovsky *



A convenient CeCl₃·7H₂O/NaI-promoted synthesis of structurally novel and strained tricyclic β-lactams from hydrazines pp 5553–5556

Lal Dhar S. Yadav *, Vijai K. Rai



*Corresponding author

+ Supplementary data available via ScienceDirect

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