



Tetrahedron Vol. 64, No. 38, 2008

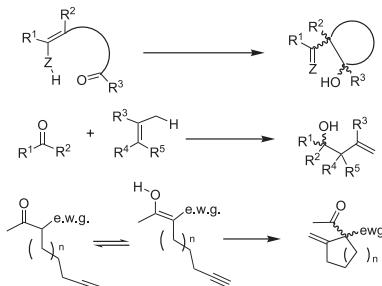
Contents

REPORT

The carbonyl ene reaction

Matthew L. Clarke*, Marcia B. France

pp 9003–9031



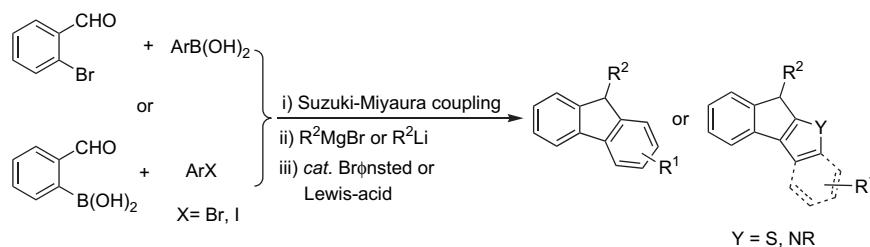
Carbonyl ene reactions are reviewed, highlighting the variants of ene reaction that are readily accomplished, along with more challenging reactions. Intermolecular, intramolecular and Conia ene reactions are highlighted.

ARTICLES

A general and efficient synthesis of substituted fluorenes and heterocycle-fused indenes containing thiophene or indole rings utilizing a Suzuki–Miyaura coupling and acid-catalyzed Friedel–Crafts reactions as key steps

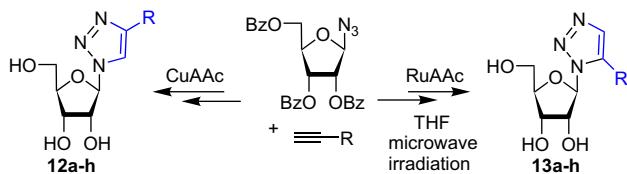
Guojie Li, Erjuan Wang, Haoyi Chen, Hongfeng Li, Yuanhong Liu*, Peng George Wang

pp 9033–9043



Preparation of ribavirin analogues by copper- and ruthenium-catalyzed azide-alkyne 1,3-dipolar cycloaddition
Ugo Pradere, Vincent Roy, Tamara R. McBrayer, Raymond F. Schinazi, Luigi A. Agrofoglio*

pp 9044–9051

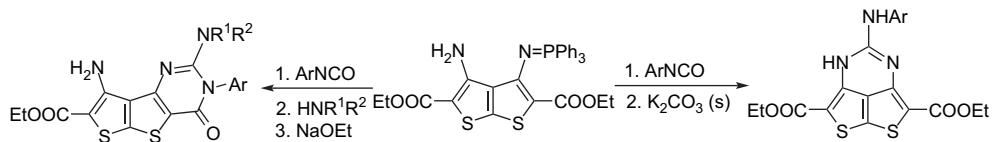


The synthesis of 1,4- and 1,5-disubstituted-1,2,3-triazolo-nucleosides has been realized via a CuAAC and RuAAC, respectively. Optimized RuAAC conditions were realized with the commercially available $[Cp^*RuCl(PPh_3)_2]$ under microwave heating, which allows a significant acceleration of the reaction (from 6 h to 5 min).

New iminophosphorane-mediated synthesis of thieno[3',2':4,5]thieno[3,2-d]pyrimidin-4(3H)-ones and 5*H*-2,3-dithia-5,7-diaza-cyclopenta[c,d]indenes

pp 9052–9059

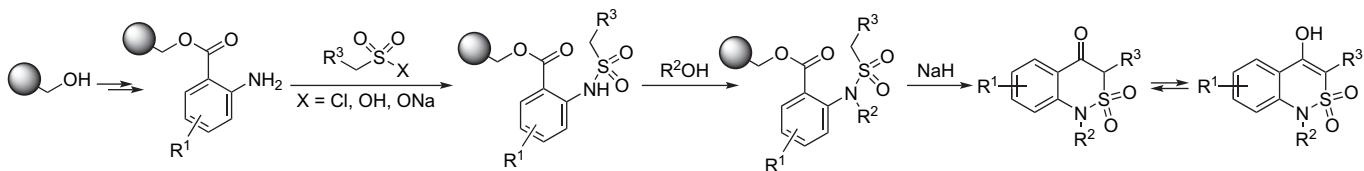
Ming-Guo Liu, Yang-Gen Hu, Ming-Wu Ding*



A solid-phase synthetic method for 3,4-dihydro-1*H*-2,1-benzothiazin-4-one 2,2-dioxide derivatives

pp 9060–9072

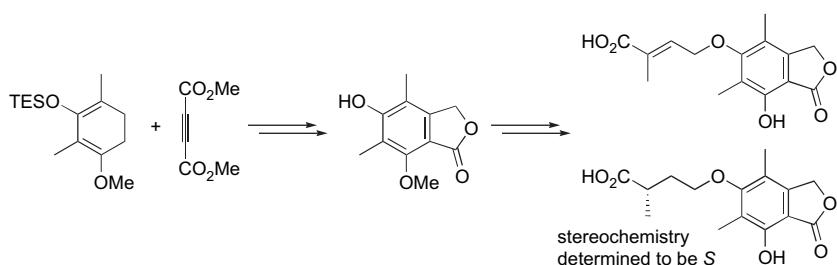
Moon-Kook Jeon*, Myung-Su Kim, Jeong-Jin Kwon, Young-Dae Gong, Duck-Hyung Lee



Synthesis of novel antifungal phthalides produced by a wheat rhizosphere fungus

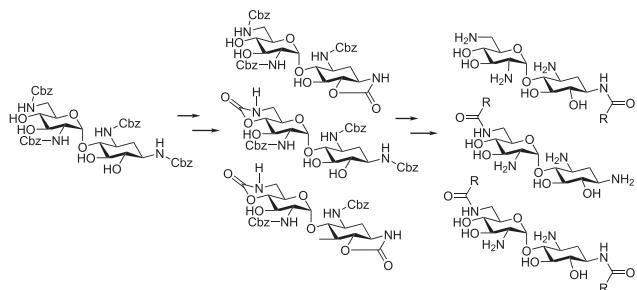
pp 9073–9077

Naoto Katoh, Takashi Nakahata, Shigefumi Kuwahara*



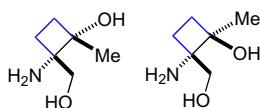
Regioselective modification of amino groups in aminoglycosides based on cyclic carbamate formation
 Guihui Chen, Pan Pan, Yun Yao, Ying Chen, Xiangbao Meng, Zhongjun Li*

pp 9078–9087



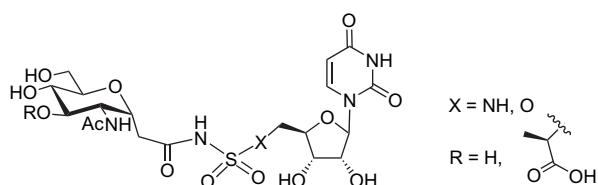
Synthesis of 2-amino-1,3-diols incorporating the cyclobutane ring
 Marta Pérez-Fernández, Alberto Avenoza, Jesús H. Bustó*, Jesús M. Peregrina*, Fernando Rodríguez

pp 9088–9092



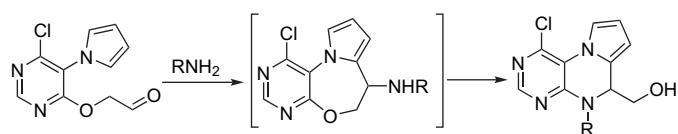
Synthesis of 1-C-linked diphosphate analogues of UDP-N-Ac-glucosamine and UDP-N-Ac-muramic acid
 Andrej Babič*, Stanislav Gobec, Christine Gravier-Pelletier, Yves Le Merrer, Slavko Pečar

pp 9093–9100



Pyrrolo-dihydropteridines via a cascade reaction consisting of iminium cyclization and O–N Smiles rearrangement
 Jinbao Xiang, Lianyou Zheng, Hongxiang Xie, Xiaowei Hu, Qun Dang*, Xu Bai*

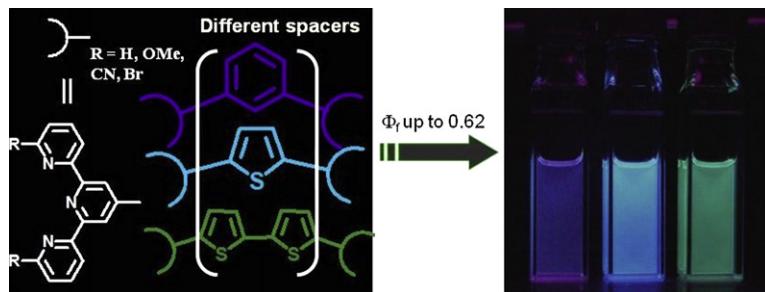
pp 9101–9107



Synthesis of π -conjugated, pyridine ring functionalized bis-terpyridines with efficient green, blue, and purple emission

pp 9108–9116

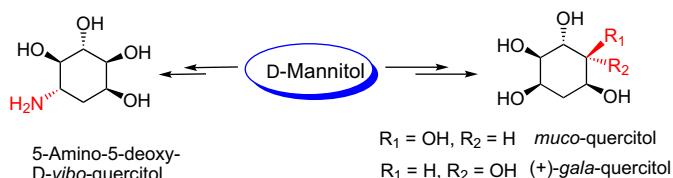
Fu-She Han, Masayoshi Higuchi*, Dirk G. Kurth*



Stereoselective synthesis of muco-quercitol, (+)-gala-quercitol and 5-amino-5-deoxy-D-vobo-quercitol from D-mannitol

pp 9117–9122

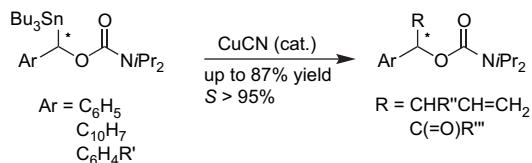
Venkata Ramana Doddi, Amit Kumar, Yashwant D. Vankar*



Cu(I)-catalyzed stereospecific coupling reactions of enantioenriched α -stannylation benzyl carbamates and their application

pp 9123–9135

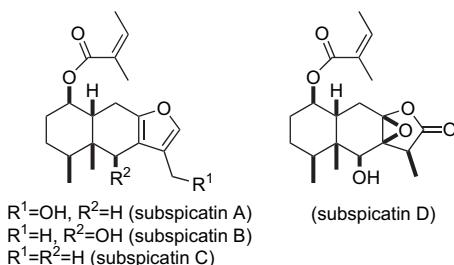
Heiko Lange, Roland Fröhlich, Dieter Hoppe*



Isolation of new eremophilane-type sesquiterpenoids, subspicatins A–D and subspicatolide from *Ligularia subspicata*, and chemical and genetic diversity of the species

pp 9136–9142

Motoo Tori*, Yasuko Okamoto, Kana Tachikawa, Kanako Mihara, Aki Watanabe, Misato Sakaoku, Shigeru Takaoka, Masami Tanaka, Xun Gong*, Chiaki Kuroda*, Masato Hattori, Ryo Hanai*

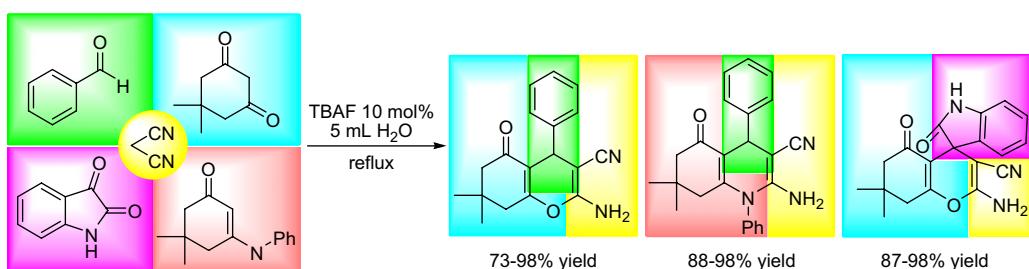


The title species were found to be diverse both in chemical composition and in the nucleotide sequences, but the difference among the samples was continuous.

Fluoride ion catalyzed multicomponent reactions for efficient synthesis of 4H-chromene and N-arylquinoline derivatives in aqueous media

pp 9143–9149

Shijay Gao, Cheng Hsuan Tsai, Chi Tseng, Ching-Fa Yao*

**OTHER CONTENTS****Corrigendum**

p 9150

Tetrahedron reports on organic chemistry

pp I–XVII

Tetrahedron Perspectives

p XIX

Tetrahedron reports on organic chemistry order form

p XX

Tetrahedron reports on organic chemistry author index

pp XXI–XXVIII

*Corresponding author

(i+) Supplementary data available via ScienceDirect

Full text of this journal is available, on-line from **ScienceDirect**. Visit www.sciencedirect.com for more information.

Abstracted/indexed in: AGRICOLA, Beilstein, BIOSIS Previews, CAB Abstracts, Chemical 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®

ISSN 0040-4020