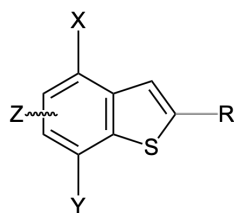


■ REVIEWS

2063 Iodine-Containing 4,7-Dihalobenzo[*b*]thiophene Building Blocks and Related Iodobenzo[*b*]thiophenes: Promising Molecular Scaffolds for Bio-Inspired Molecular Architecture

Kozo Toyota* and Shinichi Mikami



(X = I; Y = I, Br, or Cl)

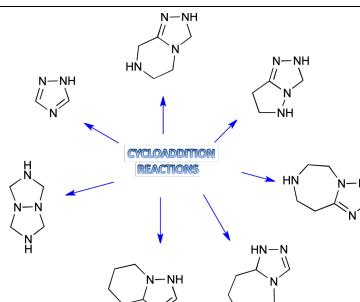
(X = I, Br, or Cl; Y = I)

(X, Y = Br or Cl; Z = I)

Molecular Architecture Molecular Scaffold Benzothiophene Iodoarene Synthetic Building Block

2099 Recent Advances in 1,2,4-Triazole Ring Construction via Cycloaddition Reactions

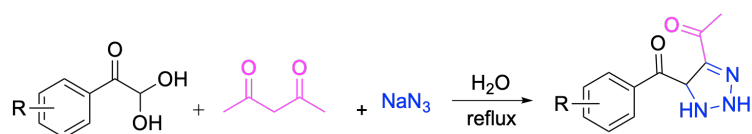
Nataliya Korol,* Mikhailo Slivka, and Oksana Holovko-Kamoshenkova


 Cycloaddition 1,2,4-Triazole [1,2,4]Triazolo[3,4-*c*]quinoxaline Pyrazolo[5,1-*c*][1,2,4]triazole [1,2,4]Triazolo[1,5-*d*][1,4]diazepinium Salt

■ PAPERS

2119 A Simple Route for Synthesis of New Triazole Derivatives via Reaction between Arylglyoxals, Acetylacetone and Sodium Azide

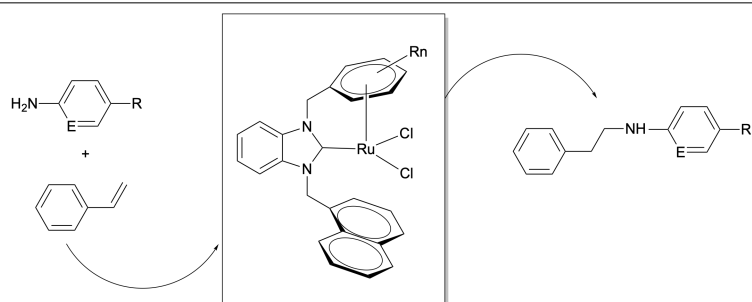
Fereshteh Nejad-Shahrokhbadi and Mohammad Anary-Abbassinejad*



Arylglyoxal Acetylacetone Sodium Azide Triazole Green Chemistry

2127 Ruthenium(II) Complexes with Chelating N-Heterocyclic Carbenes and a Ruthenate(II) Complex as Catalysts for the Anti-Markovnikov Hydroaminations of Styrene

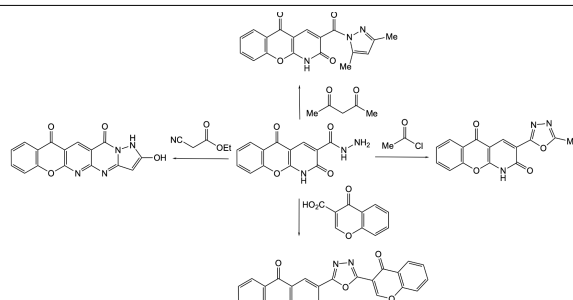
Murat Yiğit,* Yetkin Gök, Özlem Özeroğlu Çelikal, and Beyhan Yiğit



N-Heterocyclic Carbene Hydroamination Anti-Markovnikov Addition Ruthenium Complex Alkylamine

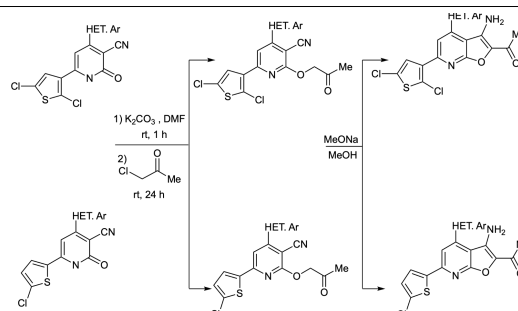
2138 Synthetic Approaches for Construction of Novel 3-Heteroarylchromeno[2,3-*b*]pyridines and Annulated Chromenopyridopyrazolopyrimidines

Magdy A. Ibrahim* and Youssef A. Alnamer


 Chromeno[2,3-*b*]pyridine Chromenopyridopyrazolopyrimidine Carbohydrazide Oxadiazole Cyclocondensation

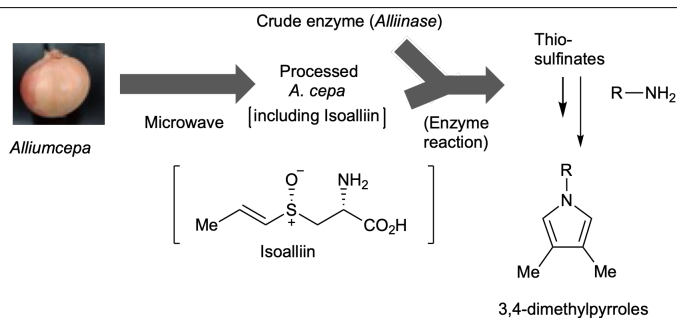
2153 Synthesis, Characterization, Antibacterial and Cytotoxic Evaluation of New 6-(Chlorothiophenyl)-2-(2-oxopropoxy)-pyridine-3-carbonitrile Derivatives and Their Corresponding Furo[2,3-*b*]pyridine Derivatives

Ala'a B. Said, Mahmoud Al-Refai,* Armin Geyer, Iman A. Mansi, and Basem Fares Ali*


 Furo[2,3-*b*]pyridine Chlorothiophenyl Pyridine-3-carbonitrile Antibacterial Activity Cytotoxic

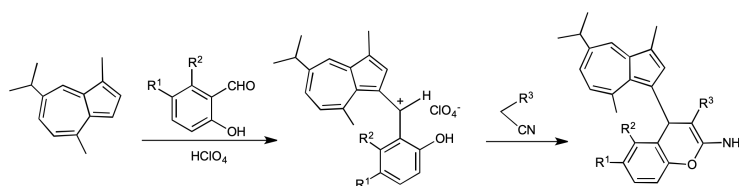
2168 Detection of New 3,4-Dimethylpyrrole Derivatives upon the Incubation of Exogenous Amines with Extract of Onion (*Allium cepa*) and Crude Alliinase from Garlic (*A. sativum*)

Taichi Yoneda, Seikou Nakamura,* Shogo Okui, Sayaka Okazaki, Souichi Nakashima, and Hisashi Matsuda


N-Substituted 3,4-Dimethylpyrrole *Allium cepa* Alliinase Thio-sulfonate Facile Synthesis

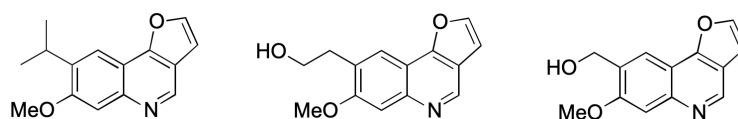
SHORT PAPERS
2179 An Efficient Synthesis of 2-Amino-4-(guaiazulen-1-yl)-4*H*-chromenes via Cycloaddition of 1-Hydroxy-2-(3-guaiazulenyl)benzenes with Malononitrile/Ethyl Cyanoacetate

Shuang Yang, Xin-Shuang Xiong, and Dao-Lin Wang*


 Heteroarylzulene Guaiazulene Guaiazulenylmethylum 2-Amino-4*H*-chromene Cycloaddition

2190 Quinoline Alkaloids from the Leaves of Cigar Tobacco and Their Anti-Tobacco Mosaic Virus Activity

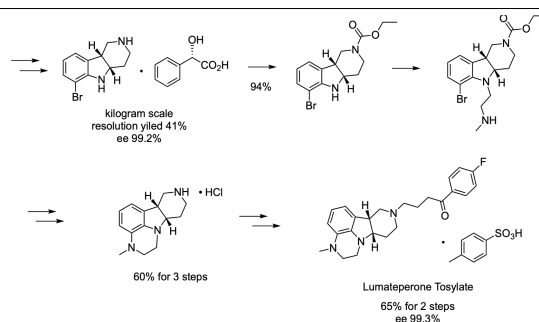
Guang-Hui Kong, Guang-Hai Zhang, Zhong-Long Lin, Gao-Kun Zhao, Yin-Ke Li, Heng Yao, Guang-Yu Yang, Qiu-Fen Hu,* and Yu-Ping Wu*



Quinoline Alkaloid Cigar Tobacco Anti-TMV Activity

2197 New Synthesis of Lumateperone Tosylate

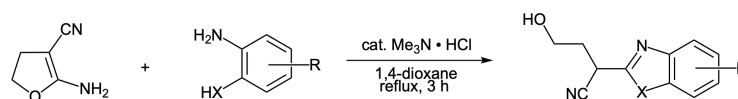
Cong Sun, Yongjun Mao,* Bo Li, Zhiyong Xu, Shun Jiang, Linlin Kang, and Han Wang



Lumateperone Tosylate New Synthesis

2207 Synthesis of Benzimidazoles, Benzoxazoles and Benzothiazole by the Reaction of 2-Amino-4,5-dihydro-3-furancarboxitrile and *o*-Substituted Anilines in the Catalysis of Trimethylamine Hydrochloride

Fumi Okabe-Nakahara,* Hayate Nagabuchi, Eiichi Masumoto, and Hiroshi Maruoka



Benzimidazole Benzoxazole Benzothiazole 4,5-Dihydro-3-furancarboxitrile Trimethylamine Hydrochloride

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 2215 Polyketides
- 2218 Aromatics
- 2222 Terpenes
- 2225 Alkaloids
- 2230 Miscellaneous

■ BRUSH UP YOUR HETEROCYCLES

2233 Brush Up Your Heterocycles

Contributors To This Issue

2153 Al-Refai, Mahmoud
2153 Ali, Basem Fares
2138 Alnamer, Youssef A.
2119 Anary-Abbassinejad, Mohammad
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2153 Geyer, Armin
2127 Gök, Yetkin
2099 Holovko-Kamoshenkova, Oksana
2190 Hu, Qiu-Fen
2138 Ibrahim, Magdy A.
2197 Jiang, Shun
2197 Kang, Linlin
2190 Kong, Guang-Hui
2099 Korol, Nataliya
2197 Li, Bo
2190 Li, Yin-Ke
2190 Lin, Zhong-Long
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2197 Mao, Yongjun
2207 Maruoka, Hiroshi
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2063 Mikami, Shinichi
2207 Nagabuchi, Hayate
2168 Nakamura, Seikou
2168 Nakashima, Souichi
2119 Nejad-Shahrokhadi, Fereshteh
2207 Okabe-Nakahara, Fumi
2168 Okazaki, Sayaka
2168 Okui, Shogo
2153 Said, Ala'a B.
2099 Slivka, Mikhailo
2197 Sun, Cong
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2179 Wang, Dao-Lin
2197 Wang, Han
2190 Wu, Yu-Ping
2179 Xiong, Xin-Shuang
2197 Xu, Zhiyong
2190 Yang, Guang-Yu
2179 Yang, Shuang
2190 Yao, Heng
2127 Yiğit, Beyhan
2127 Yiğit, Murat
2168 Yoneda, Taichi
2190 Zhang, Guang-Hai
2190 Zhao, Gao-Kun