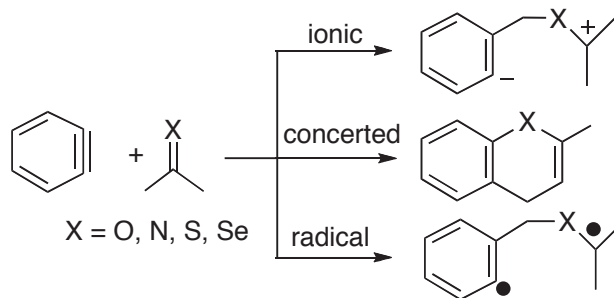


■ REVIEWS

515 **Reaction of Arynes with Carbon-Heteroatom Double Bonds**

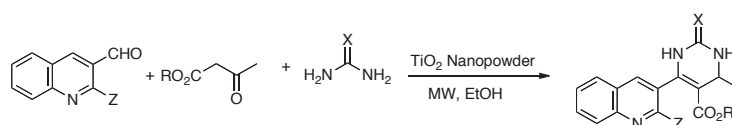
Kentaro Okuma*



Benzyne Ketone Imine Thione Selenone

545 **Application of Nanomaterials in Heterocyclic Chemistry**

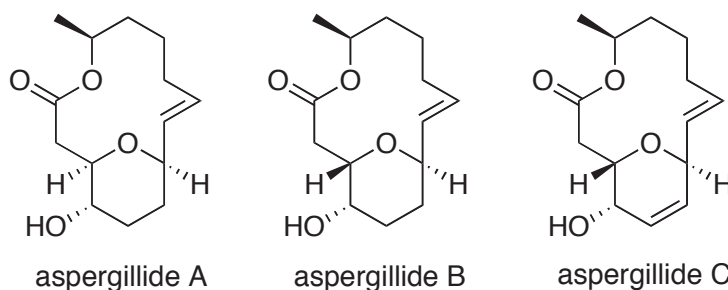
Majid M. Heravi* and Tooba Alishiri



Nanomaterial Heterocyclic Compound Catalyst Nanoparticle Cyclization

587 **Total Synthesis of Aspergillides A, B, and C**

Tomohiro Nagasawa and Shigefumi Kuwahara*

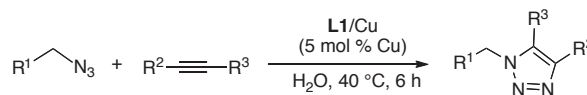
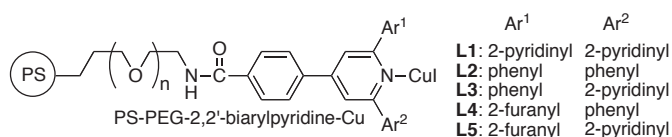


Aspergillide Macrolide Tetrahydropyran Oxa-Michael Addition Marine Natural Product

■ PAPERS

615 **Reusable Polymer-Supported 2,2'-Biarylpyridine-Copper Complexes for Huisgen [3+2] Cycloaddition in Water**

Toshimasa Suzuka,* Yamato Kawahara, Kazumasa Ooshiro, Takuya Nagamine, Kazuhito Ogihara, and Matsutake Higa

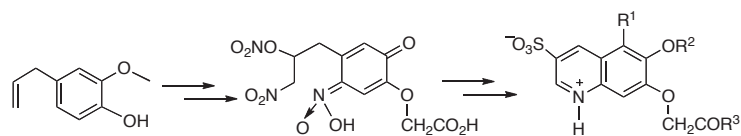


up to 95% yield
leaching of Cu: < 0.1 ppm

Copper Terpyridine Click Chemistry Triazole Azide

627 New Route to Novel Polysubstituted Quinolines Starting with Eugenol, the Main Constituent *Ocimum sanctum L.* Oil

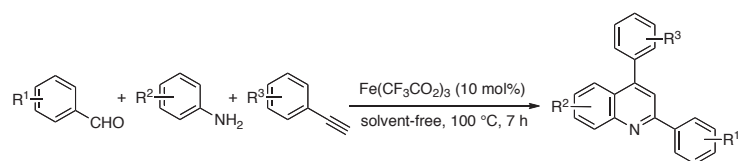
Nguyen Huu Dinh,* LeVan Co, Nguyen Manh Tuan, Le Thi Hong Hai, and Luc Van Meervelt



Quinoline Cyclization Eugenol Eugenoxyacetic Acid *Ocimum sanctum L.* Oil

639 Efficient Synthesis of 2,4-Diarylquinolines *via* Fe(III) Trifluoroacetate Catalyzed Three-Component Reactions under Solvent-Free Conditions

Min Zhang,* Ting Wang, Biao Xiong, Fengxia Yan, Xiaoting Wang, Yuqiang Ding, and Qijun Song



2,4-Diarylquinoline Iron(III) Trifluoroacetate Three-Component Reaction Solvent-Free Conditions Eco-Compatibility

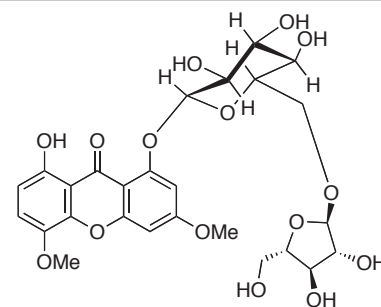
■ SHORT PAPERS

651 Cytotoxic Xanthone Glycosides from Aerial Part of *Centaurium spicatum*

Ahmed E. Allam, Mohamed A. El-Shanawany, Enaam Y. Backheet, Alaa M. Nafady, Fumihide Takano,* and Tomihisa Ohta



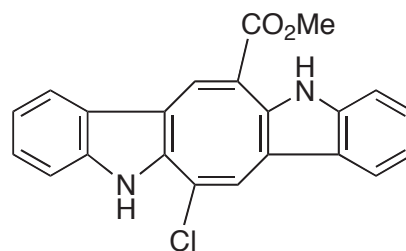
Centaurium spicatum L.



Centaurium spicatum Xanthone Glycoside Constituent Cancer Cell Line Cytotoxicity

661 Caulerchlorin, a Novel Chlorinated Bisindole Alkaloid with Antifungal Activity from the Chinese Green Alga *Caulerpa racemosa*

Ding-Quan Liu, Shui-Chun Mao,* Xiao-Qing Yu, Li-Hua Feng, and Xiao-Ping Lai

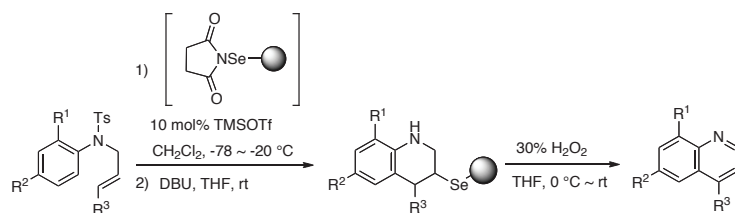


caulerchlorin

Caulerpa racemosa Bisindole Antifungal Activity Structural Elucidation Caulerchlorin

667 A Novel Solid-Phase Synthesis of Quinolines

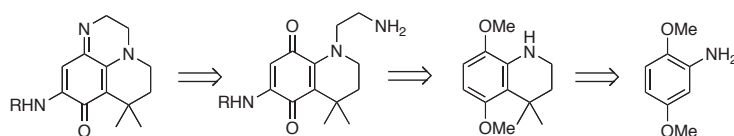
E Tang,* Deshou Mao, Wen Li, Zhangyong Gao, and Pengfei Yao



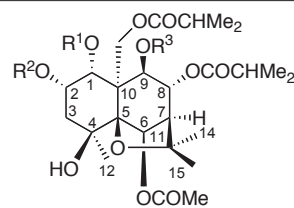
Solid-Phase Synthesis Organoselenium Quinoline Lewis Acid Intramolecular Cyclization

677 Synthesis of Analogues of Makaluvamine A

Sébastien Bouclé and Jérôme Guillard*


 Tetrahydroquinoline Pyrroloiminoquinone Alkaloid Oxidation Quinoxalin-8(5*H*)-one

689 New Dihydroagarofuranoid Sesquiterpenes from *Celastrus angulatus*

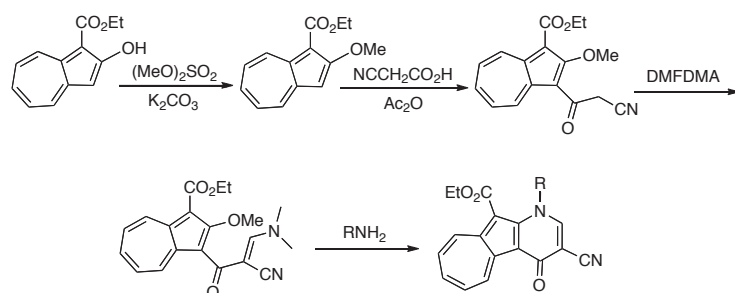
 Jiang-yun Liu, Bei-bei Tan, Xue-long Gong, Qiong-ming Xu,*
 Xiao-fei Sun, Pei-lie Cai, and Shi-lin Yang


- 1** R¹ = Pic, R² = Ac, R³ = Bz
2 R¹ = Pic, R² = Ac, R³ = Fu
3 R¹ = Ac, R² = Nic, R³ = Bz

Celastrus angulatus Celastraceae β-Dihydroagarofuran Sesquiterpene Identification Cytotoxic Activity

697 A New Synthetic Approach to Azuleno[2,1-*b*]pyridin-4(1*H*)-ones

Dao-Lin Wang,* Qing-Tao Cui, Shan-Shan Feng, and Jia-Yi Yu


 Azuleno[2,1-*b*]pyridin-4(1*H*)-one 1-Cyanoacetyl-2-methoxyazulene-3-carboxylate DMFDMA Addition-Elimination-S_NAr Reaction

■ NEW HETEROCYCLIC NATURAL PRODUCTS

- 705 Polyketides
 - 708 Aromatics
 - 716 Terpenes
 - 726 Steroids
 - 727 Alkaloids
 - 732 Miscellaneous
-

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 735 Polyketides
 - 738 Aromatics
 - 741 Terpenes
 - 742 Alkaloids
 - 748 Miscellaneous
-

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651 Backheet, Enaam Y.
677 Bouclé, Sébastien
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