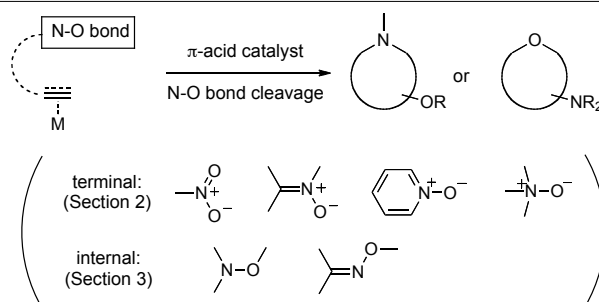


■ REVIEWS

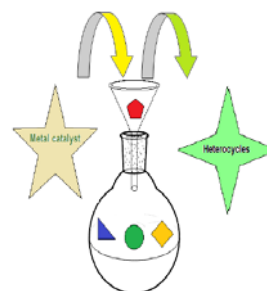
 845 Heterocyclic Synthesis by π -Acidic Metal Catalyzed Reactions via N-O Bond Cleavage

Itaru Nakamura* and Masahiro Terada


 N-O Bond Cleavage π -Acidic Metal Alkyne Gold Copper

869 Recent Progress in Metal Assisted Multicomponent Syntheses of Heterocycles

Pradip Kumar Maji,* Rafique Ul Islam,* and Sujit Kumar Bera

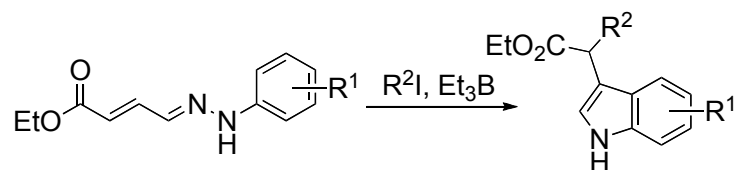


Metal Catalysis Heterocycle Multicomponent Reaction Domino Reaction Diversity Oriented Synthesis

■ COMMUNICATION

 963 Sequential Radical Addition and Fischer-Type Indolization Reactions of Conjugated Hydrazones for the Preparation of α -Alkylindole-3-acetic Acids

Yuta Ito, Masafumi Ueda,* Naomi Matsuda, Yuika Nishida, and Okiko Miyata*

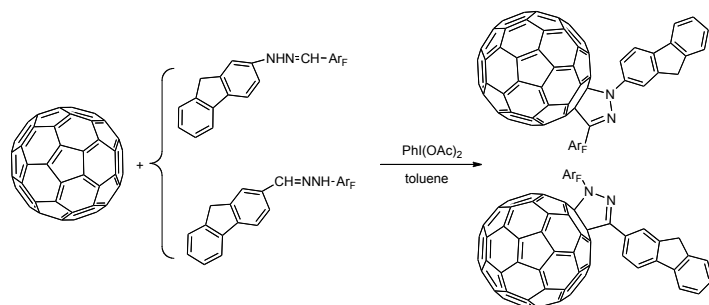


Domino Reaction Radical Reaction Indole Synthesis Fischer Indolization Reaction

■ PAPERS

971 Synthesis and Photophysical Properties of New Pyrazolino[60]fullerenes with Fluorenyl and Fluorinated Phenyl Substituents

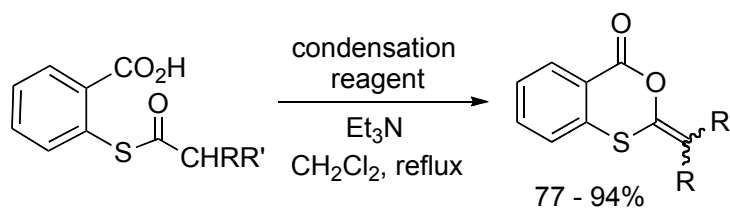
Subo Shen, Shanshan He, Haonan Cheng, Changrui Xu, Hongmei Deng, and Jianmin Zhang*



Fullerene Heterocycle Fluorine Fluorescent Pyrazoline

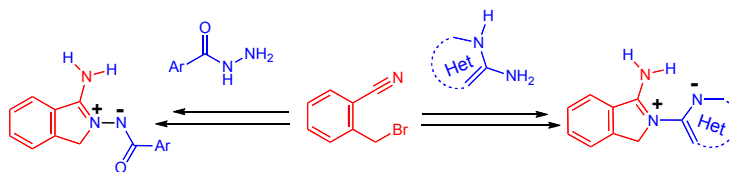
981 Efficient Synthesis of 2-Alkylidene-4*H*-3,1-benzoxathiin-4-ones and Determination of Their Double Bond Configuration

Masao Shimizu,* Masaki Yamanaka, Wataru Ando, Shigeru Shimada, Takeo Konakahara, and Norio Sakai


exo-Methylene Compound Condensation Reagent *EZ*-Isomer *O,S*-Acetal Sulfoxide

995 New 1,2- and 1,3-Aza-Ylides of 3-Amino-2-substituted-1*H*-isoindoles

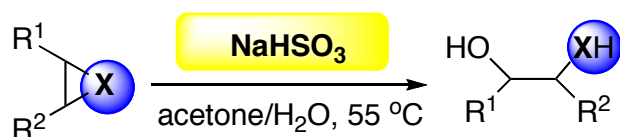
Hatem A. Abdel-Aziz,* Tlal Elsaman, Khalid A. Al-Rashood, and Hoong-Kun Fun


 Aza-Ylide 1*H*-Isoindole Hydrazide Microwave-Assisted Synthesis X-Ray Analysis

■ SHORT PAPERS

1009 NaHSO₃-Promoted Ring Openings of *N*-Tosylaziridines and Epoxides with H₂O

Xing Li, Bin Ni, Hong-Hong Chang, and Wen-Long Wei*


 R^1 = aryl or alkyl

 R^2 = H or alkyl

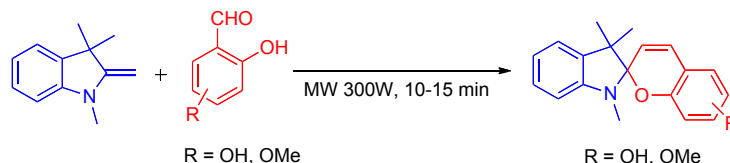
 X = N-Ts or O

 up to 99% yield
100% enantioselectivity

 NaHSO₃ Ring Opening Reaction *N*-Tosylaziridine Epoxide

1017 Improving the Synthesis of Spiropyran Derivatives Using Microwave Irradiation Method

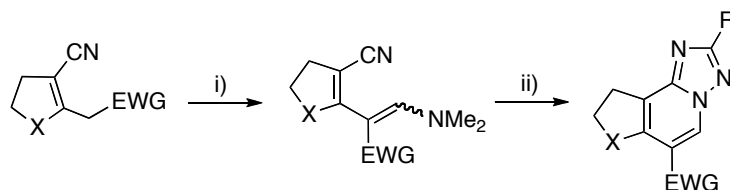
Atisya Rohadi, Siti Aishah Hasbullah,* Azwan Mat Lazim, and Rumaisa Nordin



Spiropyran Microwave Irradiation Solvent Free Reaction Eco-Friendly Reaction

1025 An Efficient Synthetic Route towards Novel Furo- and Thieno-triazolopyridines

Kazuhiro Tomoike, Hiroshi Maruoka,* Fumi Okabe, Eiichi Masumoto, Toshihiro Fujioka, and Kenji Yamagata

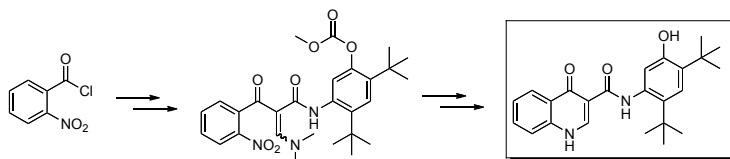


Reagents: i) $\text{Me}_2\text{NCH}(\text{OMe})_2$; ii) H_2NNHCOR
 X = O, S R = Me, Ph EWG = CO_2Me , CN

Furan Thiophene Pyridine Triazole Enamine

1035 Expeditious Synthesis of Ivacaftor

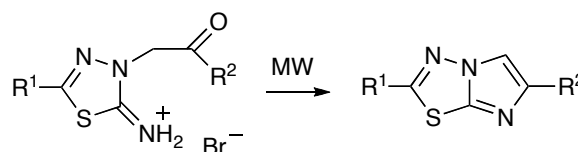
Yang He, Qien Xu, Wenpeng Ma, Jian Zhang, Hongbing Sun, and Jingshan Shen*



Ivacaftor Synthesis Leimgruber-Batcho Reaction

1041 Reinvestigation of 1,3,4-Thiadiazol-2(3H)-iminium Bromide in the Two-Step Synthesis of Imidazo[2,1-b][1,3,4]thiadiazoles

Shigeki Sano,* Keisuke Matsuura, Hayato Sumiyoshi, Akira Miki, Syuji Kitaike, and Michiyasu Nakao

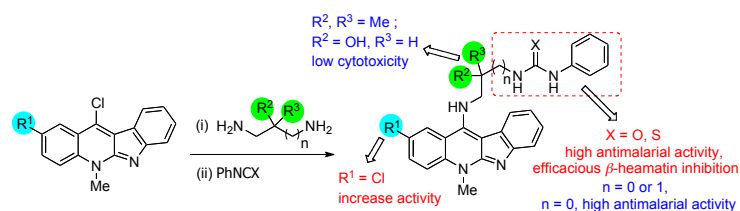


1,3,4-thiadiazol-2(3H)-iminium
bromide

1,3,4-Thiadiazol-2(3H)-iminium Bromide Imidazo[2,1-b][1,3,4]thiadiazole Thiadiazole Imidazole Microwave Irradiation

1055 Synthesis and Antimalarial Activity of Some Neocryptolepine Analogues Carrying a Multi-functional Linear and Branched Carbon-Side Chains

Elkhabiry Shaban, Kathryn J. Wicht, Ning Wang, Zhen-Wu Mei, Ikuya Hayashi, Ahmed Abdel Aleem El Gokha, Marcel Kaiser, Ibrahim El Tantawy El Sayed, Timothy J. Egan,* and Tsutomu Inokuchi*


 Malaria *Plasmodium falciparum* Neocryptolepine Antimalarial Activity β -Hematin

■ NEW HETEROCYCLIC NATURAL PRODUCTS

- 1065 Polyketides
 - 1068 Aromatics
 - 1081 Terpenes
 - 1092 Steroids
 - 1094 Alkaloids
 - 1106 Miscellaneous
-

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 1109 Polyketides
 - 1112 Aromatics
 - 1114 Terpenes
 - 1115 Alkaloids
 - 1123 Miscellaneous
-

Contributors To This Issue

- 995 Abdel-Aziz, Hatem A.
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