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1159 Zhang, Shunguang
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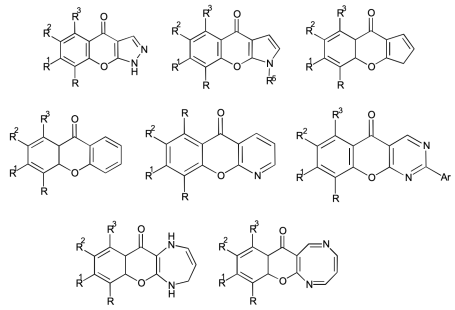
■ REVIEWS

1011 **Synthetic Approaches for Heteroannulated Chromones Fused Various Heterocyclic Systems**

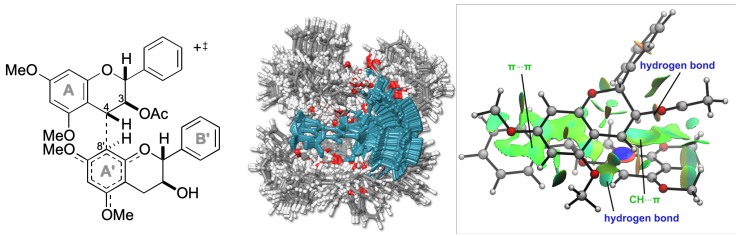
Salsabeel H. Hashiem, Magdy A. Ibrahim, Al-Shimaa Badran,* Nasser M. El-Gohary, and Hassan A. Allimony



Chromone Pyridine Pyrazole Diazepine

1061 **Systematic Search for Transition States in Complex Molecules: Computational Analyses of Regio- and Stereoselective Interflavan Bond Formation in Flavan-3-ols**

Daisuke Urabe* and Keisuke Fukaya



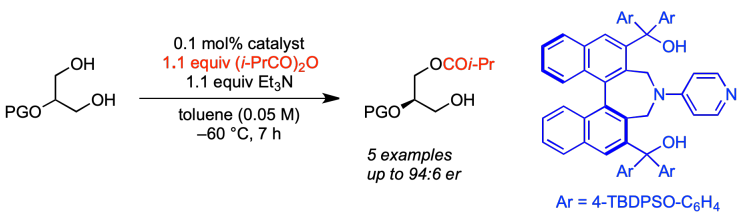
systematic search of transition states

DFT Calculation Transition State Conformational Analysis Total Synthesis Selective Transformation

■ COMMUNICATION

1083 **Acylative Desymmetrization of Glycerol Derivatives by Chiral DMAP Derivatives**

Hiroki Mandai,* Kosuke Ashihara, Koichi Mitsudo, and Seiji Suga*

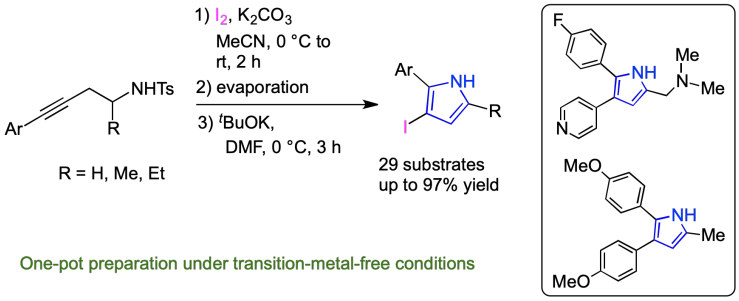


Organocatalyst DMAP Desymmetrization Glycerol Nucleophilic Catalyst

■ PAPERS

1091 **Facile Preparation of 2-Aryl-3-iodopyrroles with *N*-Tosyl 4-Aryl-3-butyn-1-ylamines, I_2, and ^{t}BuOK**

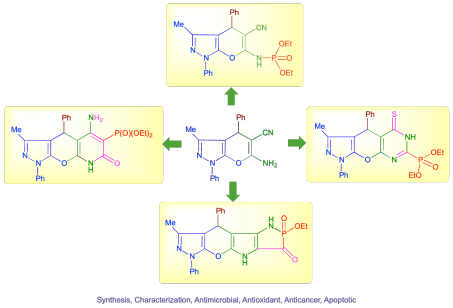
Kaho Shibasaki, Hiroki Naruto, and Hideo Togo*



Pyrrole Iodine *5-endo-dig* Cyclization β-Elimination

1119 **Synthesis and Biological Activities of Some New Phosphorus Compounds Containing Pyranopyrazole Moiety**

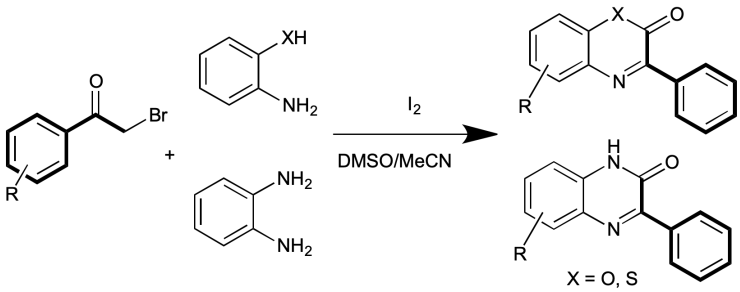
Tarik E. Ali,* Mohammed A. Assiri, Hafez M. El-Shaaer, Somaia M. Abed-Kariem, Wafaa R. Abdel-Monem, Somaya M. El-Edfawy, Noha M. Hassanin, Ali A. Shati, Mohammad Y. Alfaifi, and Serag Eldin I. Elbehairi



Synthesis One-Pot Reaction Pyranopyrazole Phosphonate Bioactivity

1138 **Metal-Free sp^3 C-H Bond Oxidation and Functionalization of α-Bromoketones to Quinoxalinone, Benzoxazinone, and Benzothiazinone Heterocyclic Compounds**

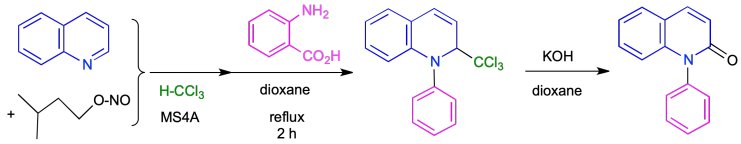
Tianlong Wei, Haiying Tian, Fang Guo,* Hongxue Qi, and Xiuling Chen*



Metal-Free Oxidation sp^3 C-H Bond Oxidation α-Bromoketone Heterocyclic Compound

1149 **Three-Component Reaction of Arynes, Quinolines, and Chloroform: Two-Step Synthesis of 2-Quinolinones from Quinolines**

Kentaro Okuma,* Shiho Inomata, Yuxuan Qu, and Noriyoshi Nagahora

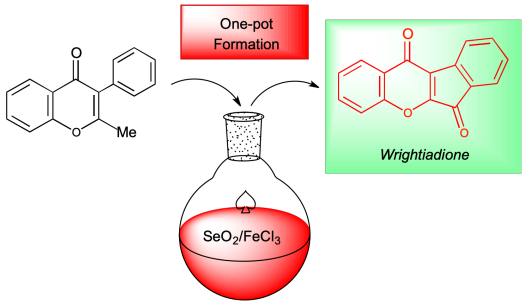


Aryne Quinoline 2-Quinolinone Three-Component Reaction

■ SHORT PAPERS

1159 **An Efficient $SeO_2/FeCl_3$ Promoted Acylation: Intramolecular Friedel-Crafts Reaction Leading to a One-Pot Synthesis of Wrightiadione and Its Derivatives**

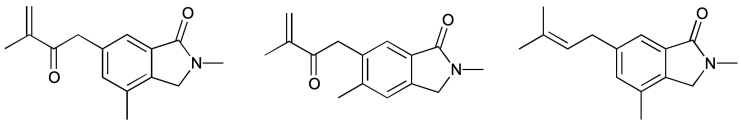
Huan Zhang, Qi Wang, Lu Huang, Ziye Tian, Shunguang Zhang,* and Youlai Zhang*



Wrightiadione One-Pot Reaction Friedel-Crafts Reaction SeO_2

1167 **Anti-Tobacco Mosaic Virus Isoindolin-1-ones from the Stems of *Nicotiana tabacum***

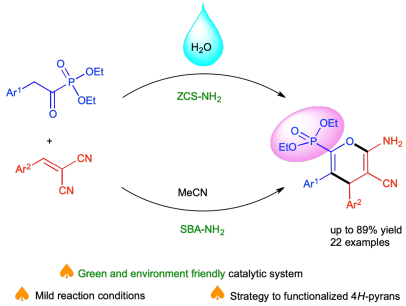
Jian-Duo Zhang, Xin Liu, Li Xu, Jia-Rui Jiang, Le-Le Deng, Wen-Wu Yang, Xue-Mei Li, Guang-Yu Yang, Tao Zhou,* and Feng-Xian Yang*



Isoindolin-1-one *Nicotiana tabacum* Anti-Tobacco Mosaic Virus

1175 **Recyclable Heterogeneous Nanocrystal Promoted Cascade Reaction in Water: An Access to Green Synthesis of Highly Functionalized 4*H*-Pyrans Containing Phosphonate Motif**

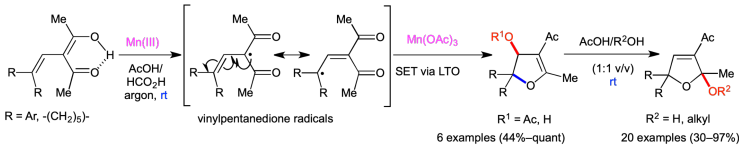
Yong-Hong Cai, Ya-Sa Xie, Ran Li, Ming-Mei Fan, Jing-Jing Li, Chuan-Bao Zhang,* and Jin-Fang Yuan*



Heterogeneous Nanocrystal Cascade Reaction Highly Functionalized 4*H*-Pyran Phosphonate

1185 **Facile Access to Highly-Substituted Dihydrofurans Using Resonated Vinylpentanedione Radicals Generated by Mn(III)-Based Oxidation**

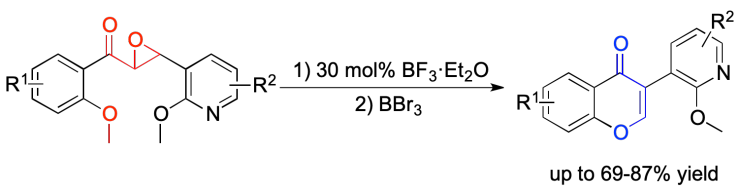
Sousuke Oka, Shintaro Hashimoto, Kazuki Hisano, and Hiroshi Nishino*



Vinylpentanedione Dihydrofuranyl Acetate Dihydrofuran Hemiacetal Vinylpentanedione Radical Mn(III) Oxidation

1194 **A One-Pot Approach to Construct 3-(2-Methoxypyridin-3-yl)-4*H*-chromen-4-ones *via* Meinwald Rearrangement/Intramolecular Demethylation Annulation of Epoxides**

Min-Qi Hu, Ying Zhang, Kai-Li Dai, Li-Fang Yu, Ting Liu, Jie Tang, and Fan Yang*



3-(2-Methoxypyridin-3-yl)-4*H*-chromen-4-one 3-(2-Methoxyphenyl)-3-oxo-2-(pyridin-3-yl)propanal Derivative Meinwald Rearrangement

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

1211 Polyketides
1213 Aromatics
1214 Terpenes
1217 Steroids
1218 Alkaloids
1226 Miscellaneous

■ BRUSH UP YOUR HETEROCYCLES

1227 Brush Up Your Heterocycles