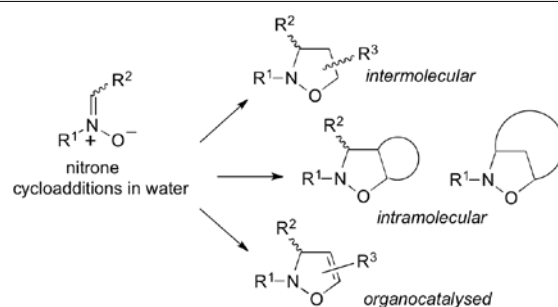


■ REVIEW

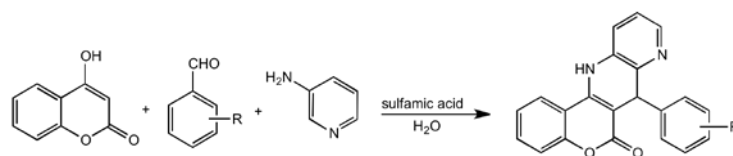
2115 **Dipolar Cycloadditions of Nitrones in Aqueous Media**
Giorgio Molteni*



"On Water" Nitrono Cycloaddition Nitrono Cycloaddition in Water 1,3-Dipolar Cyloaddition Aqueous Media Isoxazolidine

■ COMMUNICATION

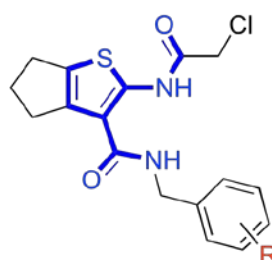
2141 **A Facile One-Pot Synthesis of Chromeno[4,3-*b*][1,5]-Naphthyridines**
Dong Wang, Dao-Lin Wang,* Xiao-Ce Shi, and Jian-Hua Qian



[1,5]Naphthyridine 4-Hydroxycoumarin 3-Aminopyridine Chromeno[4,3-*b*][1,5]naphthyridine Aqueous Media

■ PAPERS

2145 **Design, Synthesis, *in vitro* Antiproliferative Activity Evaluation of 2-Acylaminothiophene-3-carboxamide Derivatives**
Jiefeng Zhang, Fengjie Guan, Jiakun Qiu, Yanfen Fang, Lifang Yu, Jingya Li, Fan Yang, Xiongwen Zhang, Jia Li, and Jie Tang*



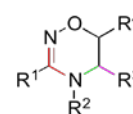
R = H, 4-OMe, 2-Cl, 3-Cl, 4-Cl
IC_{50s} = 2.32 - 3.89 mM (MGC-803)
IC_{50s} = 3.41 - 7.71 mM (HCT-116)

2-Acylaminothiophene-3-carboxamide Antiproliferative Activity Apoptosis Mitochondrial Membrane Potential Structure-Activity Relationship

2166 Strategic and Tactical Approaches to the Synthesis of 5,6-Dihydro-[1,2,4]oxadiazines

Johan J. N. Veerman,* Yorik B. Bruseker, Bart C. J. van Esseveldt, Rebecca Glen, Bryce A. Harrison, Erik H. Heijne, Andrew J. McRiner, Tommi M. Meulemans, Peter van Rijnsbergen, Wim Zonneveld, Matthew G. Bursavich,* and Duane A. Burnett

imide condensation,
15 examples, up to 91% yield



iminium ion reaction,
12 examples, up to 92% yield

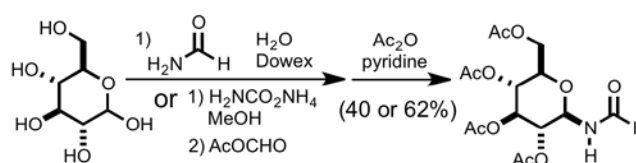
reductive amination,
12 examples, up to 80% yield

Oxadiazine Iminium Ion Reductive Amination Condensation Reaction

2201 Synthesis of β -Glycosyl Formamides Through *N*-Glycosylation of Unprotected Carbohydrates

Yoshiyasu Ichikawa,* Akihito Matsukawa, Mitsutoshi Maeda, Yumiko Tomita, Rika Mimura, Ayumi Kitamori, Hiyoshizo Kotsuki, Keiji Nakano, and Toshiya Masuda

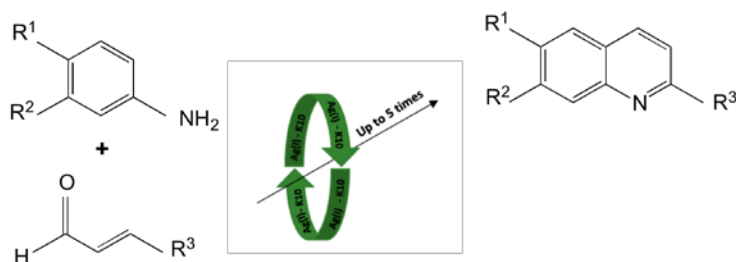
N-Glycosylation of unprotected carbohydrates



N-Glycosylation Glycosyl Formamide Unprotected Carbohydrate Glycosyl Isocyanide Formamide

SHORT PAPERS
2213 Synthesis of Quinoline Derivatives by an Improved Döbner-von Miller Reaction Using a Recyclable Ag(I)-Exchanged Montmorillonite K10 Catalyst

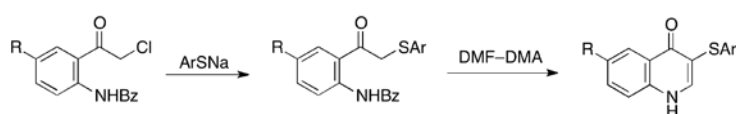
Janeeka Jayram and Vineet Jeena*



Döbner-von Miller Reaction Montmorillonite Quinoline

2225 An Efficient Synthesis of 3-(Arylsulfonyl)quinolin-4(1*H*)-ones via Cyclization of *N*-[2-[2-(Arylsulfonyl)acetyl]-phenyl]benzamides with *N,N*-Dimethylformamide Dimethyl Acetal

Kazuhiro Kobayashi,* Kohei Nishikawa, and Takashi Nogi

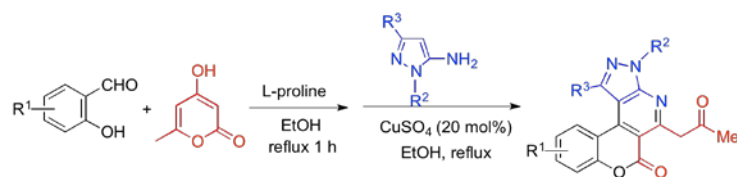


R = H, Cl, OMe; Ar = Ph, substituted Ph, 2-naphthyl

3-(Arylsulfonyl)quinolin-4(1*H*)-one DMF-DMA *N*-[2-(2-Chloroacetyl)phenyl]benzamide Sodium Arenethiolate

2235 An Efficient Synthesis of Functionalized Chromeno[4,3-d]-pyrazolo[3,4-b]pyridine Derivatives

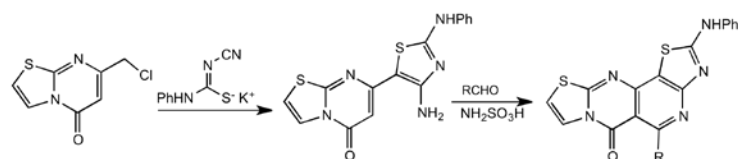
Wei Lin,* Yongxiang Zheng, Yazhen Wang, and Daqing Shi*



Chromeno[4,3-d]pyrazolo[3,4-b]pyridine One-Pot Three-Component Reaction 4-Hydroxy-6-methyl-2H-pyran-2-one Pyrazol-5-amine

2244 Methodology to Access Thiazolo[3',2':2,3]pyrido[4,5-d]-thiazolo[3,2-a]pyrimidinones

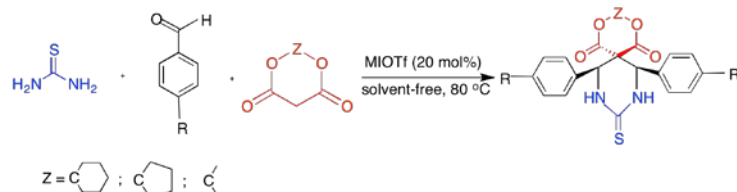
Dao-Lin Wang,* Dong Wang, Qiao-Min Li, and Jian-Hua Qian



Thiazolo[3,2-a]pyrimidine 7-Chloromethyl-5H-thiazolo[3,2-a]pyrimidin-5-one N-Phenyl-M-cyanoimidothiocarbonate Pictet-Spengler Reaction

2252 One-Pot Regioselective Synthesis of Diazaspiro[5.5]undecane-1,5-dione-9-thione Derivatives Catalyzed by Reusable 1-Methylimidazolium Trifluoromethylsulfonate under Solvent-Free Conditions

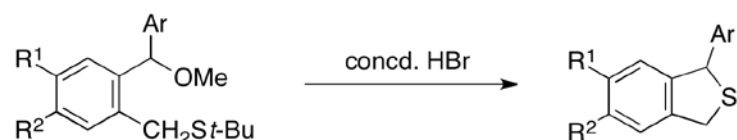
Zhaohui Xu,* Houfu Zhang, Yunkui Xiong, Deyong Liu, and Qingshui Huang*



Diazaspiro[5.5]undecane-1,5-dione-9-thione Derivative 1-Methylimidazolium Trifluoromethylsulfonate Solvent-Free Conditions

2261 Synthesis of 1-Aryl-1,3-dihydrobenzo[c]thiophenes by Acid-Mediated Cyclization of 1-[Aryl(methoxy)methyl]-2-[(tert-butylsulfanyl)methyl]benzenes

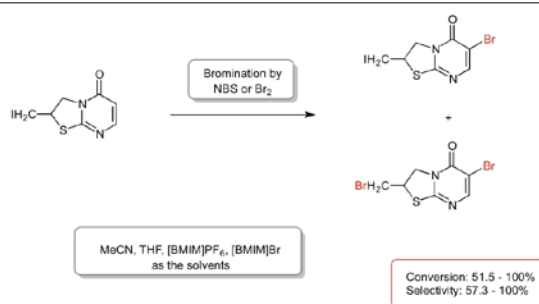
Kazuhiro Kobayashi* and Yuuho Shigemura



1,3-Dihydrobenzo[c]thiophene Hydrobromic Acid Cyclization Reaction tert-Butyl Sulfide 2-[Aryl(methoxy)methyl]phenyllithium

2271 Regioselective Bromination of 2-Iodomethyl-2,3-dihydrothiazolo[3,2-a]pyrimidin-5-one

Renata Studzińska,* Renata Kołodziejska, Tomasz Kosmalski, and Bożena Modzelewska-Banachiewicz



Thiazolo[3,2-a]pyrimidine Bromination Reaction Substitution Reaction Ionic Liquid

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 2279 Polyketides
 - 2282 Aromatics
 - 2285 Terpenes
 - 2286 Alkaloids
 - 2295 Miscellaneous
-

■ BRUSH UP YOUR HETEROCYCLES

- 2296 Brush Up Your Heterocycles
-

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