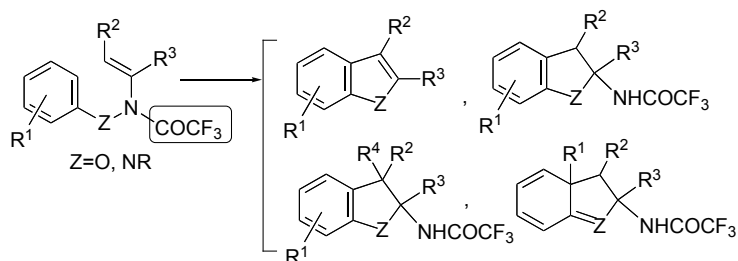


## ■ REVIEWS

**843 Efficient Synthesis of Indoles and Benzo[*b*]furans via [3,3]-Sigmatropic Rearrangement of *N*-Trifluoroacetyl Enehydrazines and Enehydroxylamines**

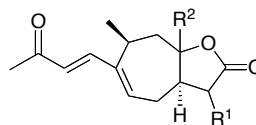
Okiko Miyata,\* Norihiko Takeda, and Takeaki Naito\*



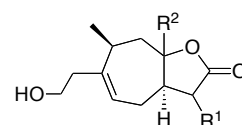
Indole    Benzofuran    Fischer Indolization    Sigmatropic Rearrangement    Trifluoroacetamide

**873 Recent Advances in the Total Synthesis of Xanthanolide Sesquiterpenoids**

Kozo Shishido\*



$R^1 = =CH_2$ ;  $R^2 = \alpha-H$ : 8-*epi*-xanthatin  
 $R^1 = \beta-Me$ ;  $R^2 = \beta-H$ : 11 $\alpha$ ,13-dihydroxanthatin  
 $R^1 = =CH_2$ ;  $R^2 = \beta-H$ : xanthatin



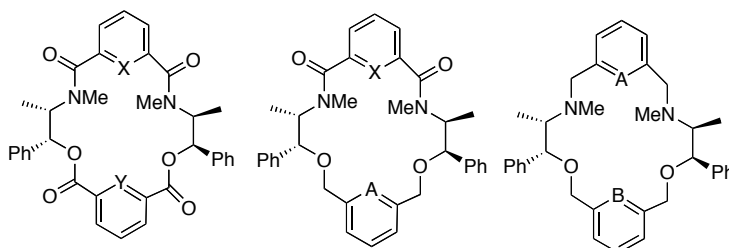
$R^1 = \beta-Me$ ;  $R^2 = \alpha-H$ : sundiversifolide  
 $R^1 = \alpha-Me$ ;  $R^2 = \beta-H$ : diversifolide

Total Synthesis    Sesquiterpenoid    Xanthanolide    Allelopathy    anti-MRSA

## ■ COMMUNICATIONS

**891 Synthesis and Structures of New  $C_2$ -Symmetrical Chiral Macrocycles Containing the Ephedrine Moiety**

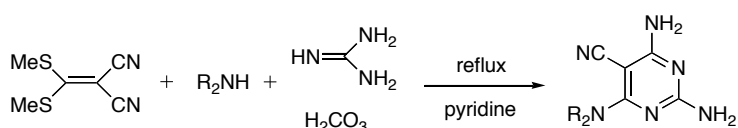
Yiwen Chen, Mingzhang Gao, Songde Tan, Joseph H. Reibenspies, and Ralph A. Zingaro\*



Chiral    Macrocyclic    Ephedrine    Synthesis    Crystal

**899 One-Pot Synthesis of 6-Substituted Amino-2,4-diaminopyrimidine Derivatives Using Ketene Dithioacetals with Amines and Guanidine Carbonate**

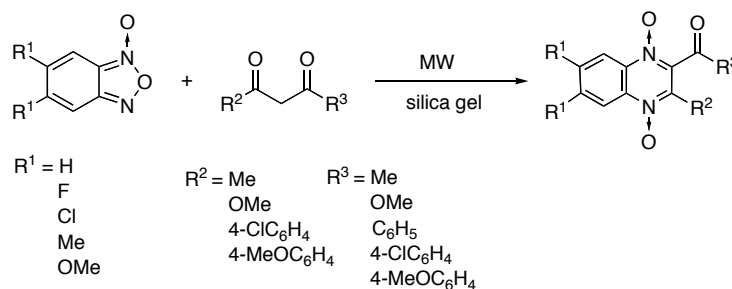
Miki Hirose, Masayori Hagimori, Yasuhiro Shigemitsu, Naoko Mizuyama, Bo-Cheng Wang, and Yoshinori Tominaga\*



Pyrimidine    Solid State    Fluorescence    Ketene Dithioacetal    Organic Electron Luminescent

**905 Silica Gel Catalyzed Synthesis of Quinoxaline 1,4-Dioxides under Solvent-Free Conditions Using Microwave Irradiation**

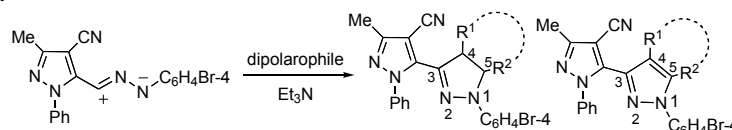
Yusuke Sumiyoshi, Hiroaki Saito, Shinichi Miyairi, and Tohru Takabatake\*



Benzofuroxan    Benzofurazan    Dehydration

**■ PAPERS**
**911 Preparation of 4-Cyano-3-methyl-1-phenyl-1H-pyrazole-5-(4-bromophenyl)nitrile Imine: Regio- and Stereoselective Synthesis of a New Class of Substituted 3-Pyrazolines and Pyrazoles**

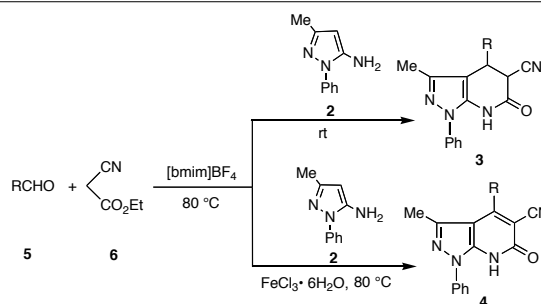
Attreyee Mukherjee and Kumar K. Mahalanabis\*



Stereoselective    Nitrile Imine    Dipolarophile    Cycloaddition    Fluorescence

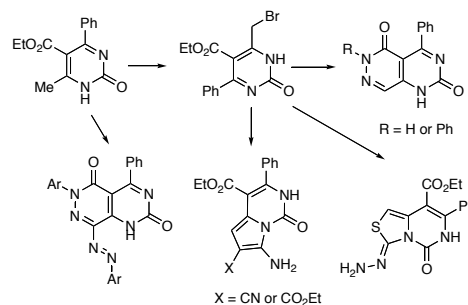
**923 Novel and Efficient Synthesis of Pyrazolo[3,4-*b*]pyridin-6-ones or Their Hydrogenated Derivatives through One-Pot Reaction in Ionic Liquid**

Xin-Ying Zhang,\* Xiao-Yan Li, Xue-Sen Fan,\* Xia Wang, Gui-Rong Qu, and Jian-Ji Wang


 Ionic Liquid    One-Pot Reaction    Pyrazolo[3,4-*b*]pyridin-6-one

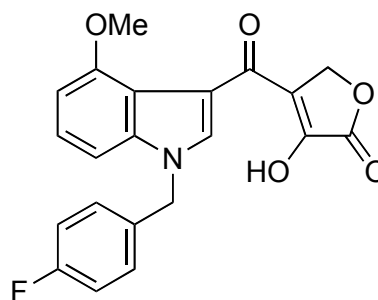
**937 A Convenient Route to New Pyrrolo[1,2-*c*]pyrimidone, Thiazolo[3,4-*c*]pyrimidone and Pyrimido[4,5-*d*]pyridazine Derivatives**

Nabila A. Kheder, Yahia N. Mabkhot, and Ahmad M. Farag\*


 1,2,3,4-Tetrahydro- and 1,2-Dihydropyrimidine-5-carboxylates    Pyrrolo[1,2-*c*] and Thiazolo[3,4-*c*]pyrimidones    Pyrimido[5,4-*d*]pyridazine

**947 Structural Modification of Diketo Acid Portion in 1*H*-Benzylindole Derivatives HIV-1 Integrase Inhibitors**

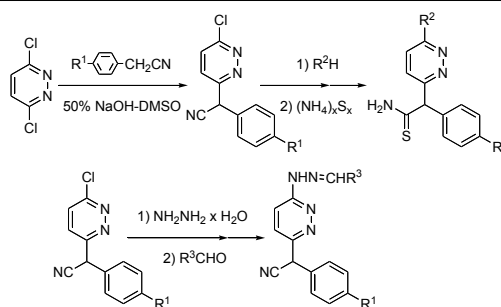
Stefania Ferro,\* Sara De Grazia, Laura De Luca, Maria Letizia Barreca, Zeger Debyser, and Alba Chimirri



CHI-1043 Strand-Transfer Synthesis

**961 Synthesis, Fungicidal and Antibacterial Activity of New Pyridazine Derivatives**

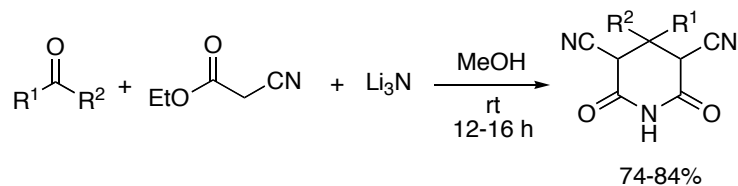
Henryk Foks,\* Krystyna Wisterowicz, Agnieszka Miszke, Kamil Brożewicz, Katarzyna Wiśniewska, and Maria Dąbrowska-Szponar



Thiopyridazine Thioamide Antibacterial Activity Ammonium Polysulfide Hydrazinylpyridazine

**977 Synthesis of 4-Substituted 3,5-Dicyano-2,6-piperidinediones Using Lithium Nitride as a Convenient Source of Ammonia**

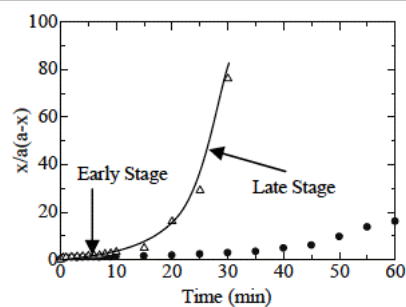
Liqiang Wu,\* Chunguang Yang, Liming Yang, and Lijuan Yang



4-Substituted 3,5-Dicyano-2,6-piperidinedione Lithium Nitride Ethyl Cyanoacetate One-Pot Synthesis Guareschi-Thorpe Reaction

**983 Kinetic Study on Huisgen Reaction Catalyzed by Copper(I): Triazol Formation from Water-Soluble Alkyne and Alkyl Azide**

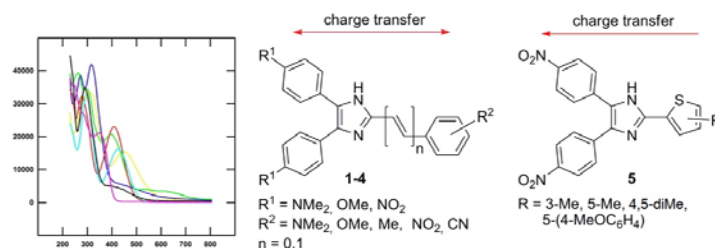
Yosuke Kasuga, Mamoru Ito, Wataru Onoda, Yosuke Nakamura, Seiichi Inokuma, Takehisa Matsuda, and Jun Nishimura\*



Click Chemistry Huisgen Reaction Triazole Water-Soluble Azide Second-Order Kinetics

**999 Novel Charge-Transfer Chromophores Featuring Imidazole as  $\pi$ -Linkage**

Anjan Patel, Filip Bureš,\* Miroslav Ludwig, Jiří Kulhánek, Oldřich Pytela, and Aleš Růžička

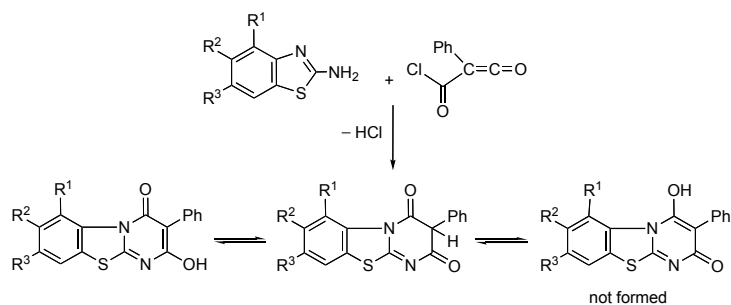


Imidazole Charge Transfer Chromophore UV/Vis Spectroscopy Nonlinear Optics Push-Pull System

## ■ NOTES

**1015 The Condensation of (Chlorocarbonyl)phenylketene with 1,3-Dinucleophiles. II. Preparation of 2-Hydroxy-3-phenyl-4*H*-pyrimido[2,1-*b*][1,3]benzothiazol-4-ones and Thioxo Dihydro-4,6(1*H*,5*H*)-pyrimidinones**

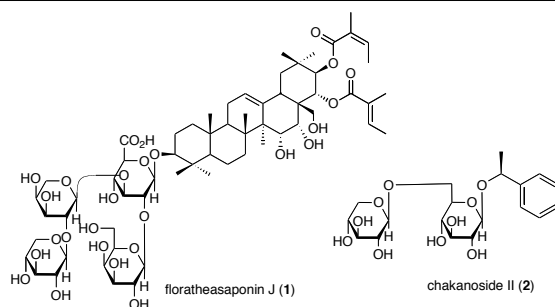
Hassan Sheibani\* and Mahboobeh Zahedifar



(Chlorocarbonyl)phenylketene    1,3-Dinucleophile    Pyrimidinone    Benzothiazole    Arylthiourea

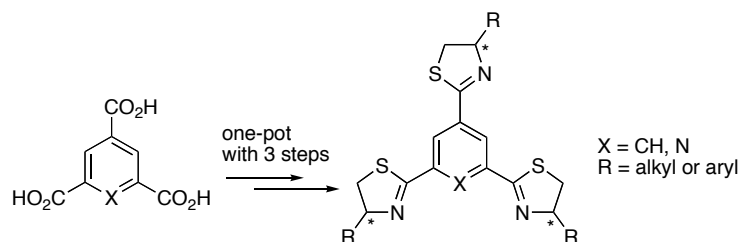
**1023 Medicinal Flowers. XXV. Structures of Floratheasaponin J and Chakanoside II from Japanese Tea Flower, Flower Buds of *Camellia sinensis***

Sachiko Sugimoto, Masayuki Yoshikawa,\* Seikou Nakamura, and Hisashi Matsuda


*Camellia sinensis*    Theaceae    Flower Bud    Floratheasaponin J    Chakanoside II

**1031 A Convenient One-Pot Synthesis of Arene-Centered Tris(thiazoline) Compounds**

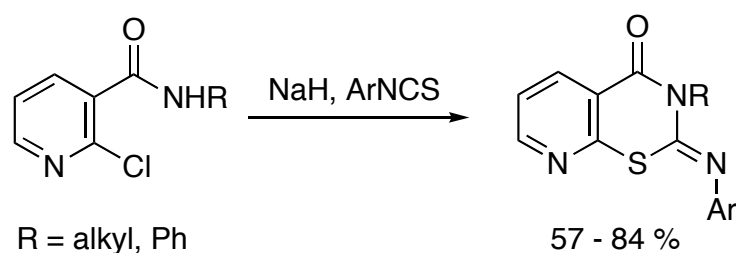
Xuhong Lu, Qingqing Qi, Yumei Xiao, Nan Li, and Bin Fu\*



Tris(thiazoline)    Tricarboxylic Acid    Phosphorus Pentasulfide    One-Pot Reaction    Synthesis

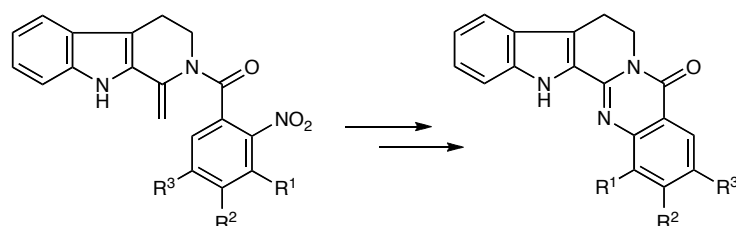
**1041 One-Pot Synthesis of 2-Arylimino-2,3-dihydropyrido[3,2-*e*]-1,3-thiazin-4-ones by the Reaction of Secondary 2-Chloropyridine-3-carboxamides with Aryl Isothiocyanates**

Kazuhiro Kobayashi,\* Toshihide Komatsu, Daizo Nakamura, and Hisatoshi Konishi


 2,3-Dihydropyrido[3,2-*e*]thiazin-4-one    2-Chloronicotinamide    Aryl Isothiocyanate    Sodium Hydride    Ring Closure

**1047 A New and Facile Synthesis of Rutaecarpine Alkaloids**

Chih-Shone Lee,\* Cheng-Kuo Liu, Yen-Yao Cheng, and Che-Ming Teng



Rutaecarpine    Alkaloid    One-Pot Reductive-Cyclization    Carboline    Anti-Platelet Aggregation

■ NEW HETEROCYCLIC NATURAL PRODUCTS

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- 1057 Polyketides
  - 1059 Aromatics
  - 1065 Terpenes
  - 1077 Steroids
  - 1078 Alkaloids
  - 1086 Miscellaneous
- 

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

---

- 1089 Polyketides
  - 1093 Aromatics
  - 1095 Terpenes
  - 1096 Alkaloids
  - 1106 Miscellaneous
-

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