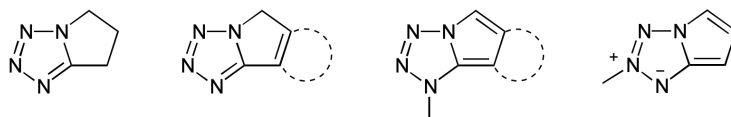


## ■ REVIEWS

 375 **Pyrrrolotetrazoles and Ring-Fused Derivatives**

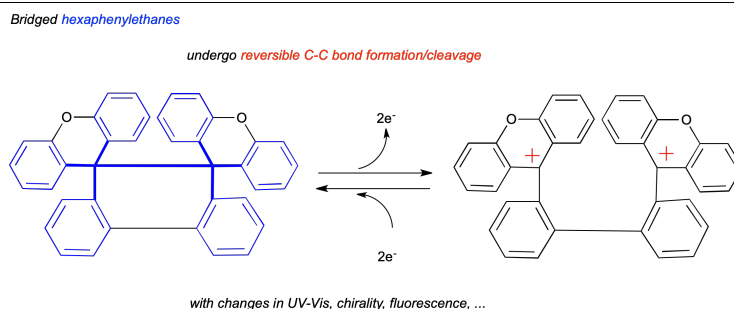
Dietrich Moderhack\*



Ring Closure    Electrophilic Substitution    DFT Calculation    Tautomerism    Azido-Tetrazole Isomerism

 419 **9,9'-Bi(xanthene)-Type Hexaphenylethane Derivatives as Advanced Organic Electrochromic Systems**

Takanori Suzuki,\* Yusuke Ishigaki, Masaki Takata, Jun-ichi Nishida, and Takanori Fukushima

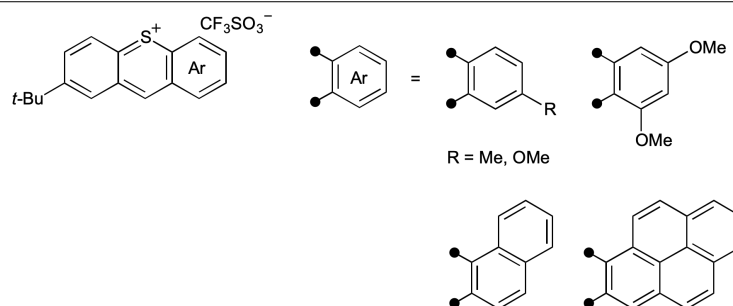


Redox System    Dication    X-Ray Structure    Chirality    Fluorescence

## ■ PAPERS

 451 **The Electronic Structure of Thioxanthylum Scaffolds**

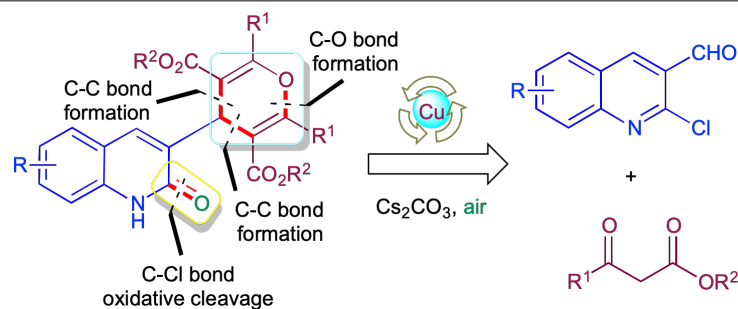
Koki Hirano, Akira Yasuda, Takahiro Sasamori, Kosei Shioji, Kentaro Okuma, and Noriyoshi Nagahora\*



Thioxanthylum    UV-vis Absorption    Theoretical Calculation

 465 **Efficient Approach towards the Polysubstituted 4H-Pyran Hybrid Quinolone Derivatives and Subsequent Copper-Catalyzed Hydroxylation of Haloarenes**

Vipin Kumar, Dharmender Singh, Raghuram Gujjarappa, Chandi C. Malakar,\* and Virender Singh\*

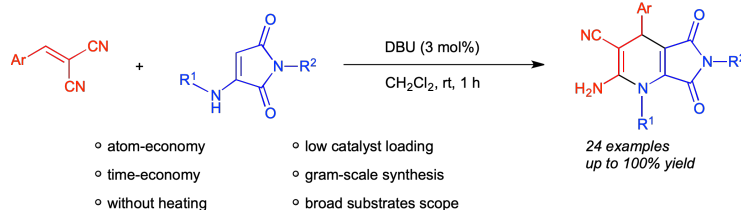


C-O Bond Formation    Cu-Catalysis    Domino Reaction    Quinolone    4H-Pyran

## ■ SHORT PAPERS

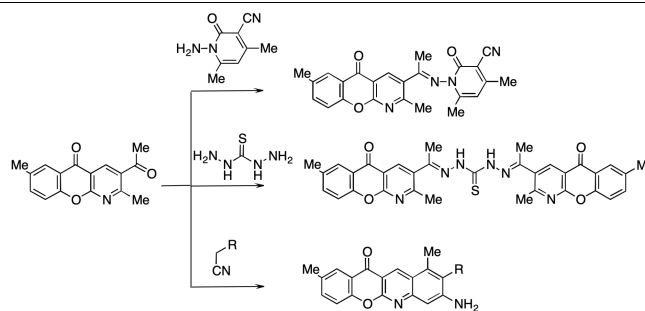
**481 DBU-Catalyzed Highly Efficient Synthesis of 1,4-Dihydropyridine Derivatives from Arylidene malononitriles and  $\beta$ -Enamino Imides**

Wei Han, Kazuya Nakajima, Masashi Kajitani, and Takeshi Oriyama\*


 DBU 1,4-Dihydropyridine  $\beta$ -Enamino Imide

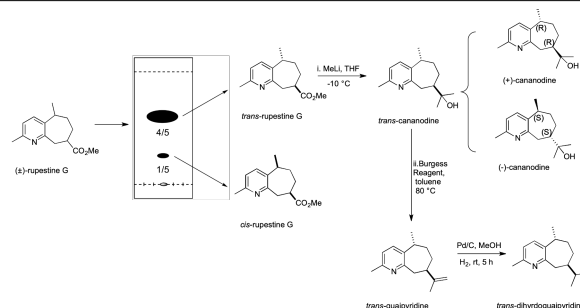
**489 Construction and Biological Evaluations of Some Novel Chromeno[2,3-*b*]pyridines and Chromeno[2,3-*b*]quinolines Using 6-Methylchromone-3-carbonitrile**

Magdy A. Ibrahim\* and Nasser M. El-Gohary

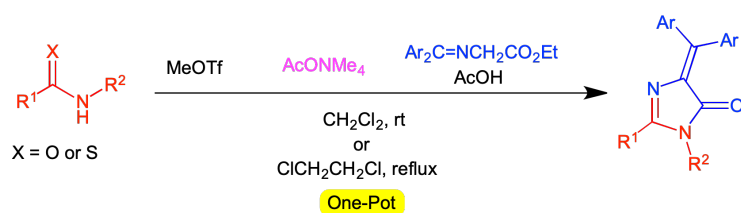

 6-Methylchromone-3-carbonitrile Chromeno[2,3-*b*]pyridine Chromeno[2,3-*b*]quinoline

**506 Synthesis and *in vitro* Biological Evaluation of Cananodine**

Abdullah Yusuf,\* Paruke Aibibula, Ju-Bao Zhang, Guo-Zheng Huang, Haji Akber Aisa, and Jiang-Yu Zhao\*


**516 Acetate/Acetic Acid-Assisted One-Pot Synthesis of (Diarylmethylene)imidazolone from Amide or Thioamide**

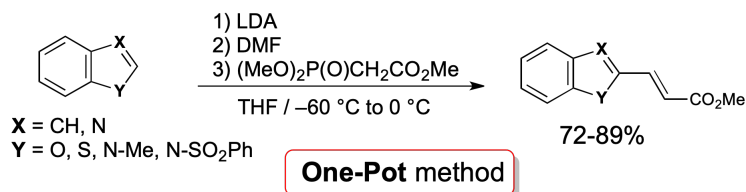
Masahiro Ikejiri,\* Atsufumi Watanabe, Mari Katsuda, Mayu Funakoshi, Aki Fujisaka, and Kazuyuki Miyashita\*



Imidazolone Fluorescence Fluorescent Protein Dye

**527 Efficient Synthesis of Acrylates Bearing an Aryl or Heteroaryl Moiety: One-Pot Method from Aromatics and Heteroaromatics Using Formylation and the Horner-Wadsworth-Emmons Reaction**

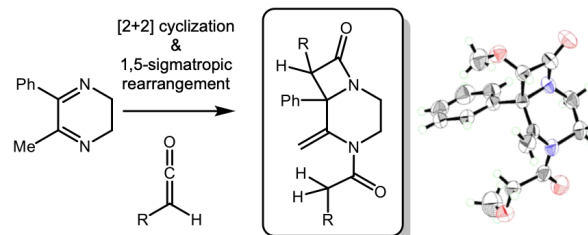
Tatsuro Yasukata\* and Takaharu Matsuura



One-Pot Method Aryl-bearing Acrylate Formylation Horner-Wadsworth-Emmons Reaction

**534 Stepwise Reactions between Cyclic 1,4-Diazadienes and Ketenes: Characteristics and Mechanism**

Kazuhide Nakahara,\* Koki Yamaguchi, and Hisao Kansui



Stepwise Reaction    1,5-Sigmatropic Reaction    Ketene    Cyclic Diazadiene

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 547 Polyketides
- 550 Aromatics
- 554 Terpenes
- 557 Alkaloids
- 564 Miscellaneous

■ BRUSH UP YOUR HETEROCYCLES

- 567 Brush Up Your Heterocycles

## Contributors To This Issue

506 Aibibula, Paruke  
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