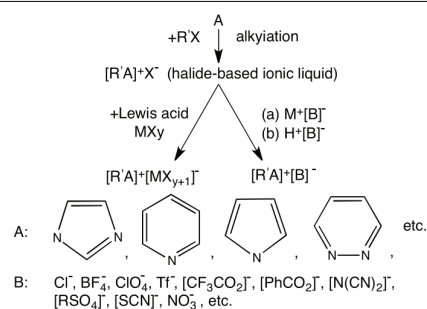


## ■ REVIEW

## 1171 Latest Development on the Methods of Synthesizing Ionic Liquids

Xiaoxia Xie, Lihua Li, Xian Wu, Cheng Ma, and Jinsheng Zhang\*

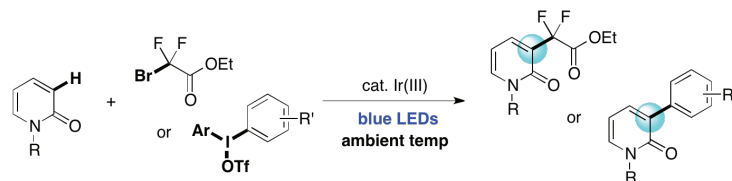


Ionic Liquid    Synthetic Method    High Purity

## ■ PAPERS

## 1187 Highly C3-Selective Direct Alkylation and Arylation of 2-Pyridones under Visible-Light-Promoted Photoredox Catalysis

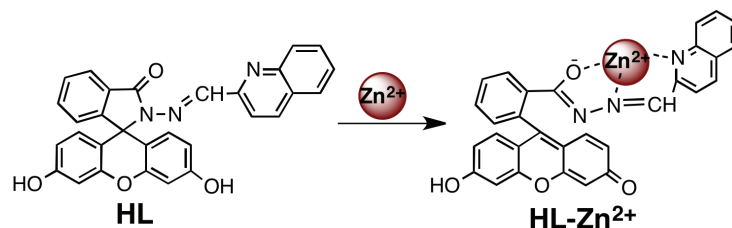
Atifah Najib, Sho Tabuchi, Koji Hirano,\* and Masahiro Miura\*



Pyridone    Photoredox Catalysis    Alkylation Reaction    Arylation Reaction

 1204 A Colorimetric Chemosensor Based on Fluorescein for the Detection of Zn<sup>2+</sup> in Aqueous Solution

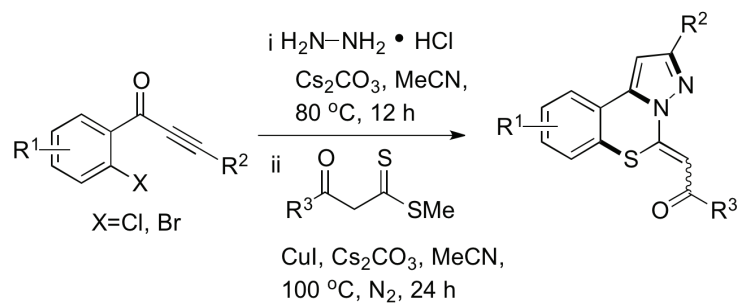
Wei Wang, Ya-Nan Lei, Qing-Lei Liu, and Yan Gao\*



Fluorescein    Chemosensor    Zinc    Naked Eye    Aqueous Solution

## 1215 Efficient One-Pot Synthesis of Benzo[e]pyrazolo-[1,5-c][1,3]thiazine Derivatives under Copper-Catalyzed Conditions

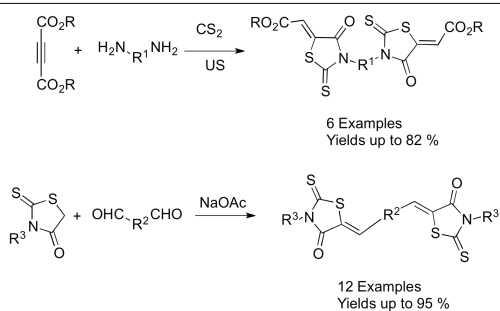
Jiyang Jie, Haoyi Li, Meihui Piao, and Xiaobo Yang\*



Copper Catalyst    One-Pot Reaction    S-Arylation Reaction    Pyrazole    Thiazine

**1224 Prospective Study Directed to the Synthesis of Symmetrical Linked Bis-Rhodanine Derivatives with Their Antimicrobial Activity**

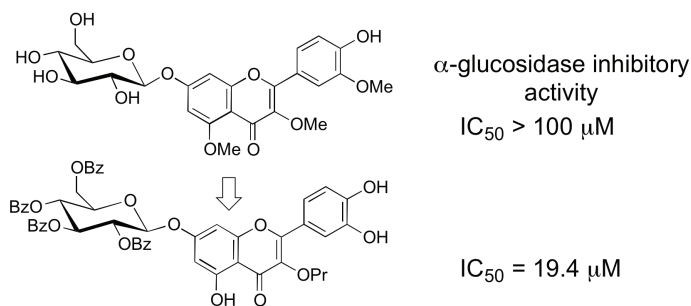
Wael A. A. Arafa,\* Raafat M. Shaker, and Saleh A. Rabeh



Symmetrical Bis-Rhodanine    Knoevenagel Condensation Reaction    Ultrasonication    Antimicrobial Activity

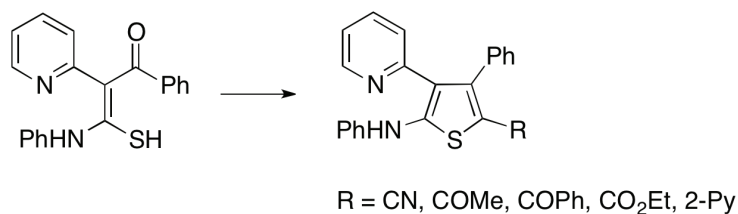
**■ SHORT PAPERS**
**1245 Synthesis of Quercetin Glycosides and Their  $\alpha$ -Glucosidase Inhibitory Activities**

Bixue Xu,\* Guangyi Liang,\* Zhonghang Wen, Zhanxin Hu, Jie Yuan, Hongju Chen, and Limei Zhang


 Quercetin Glycoside    Inhibitory Activity     $\alpha$ -Glucosidase

**1261 Synthesis, Biological Evaluation of Some New Thiophene Derivatives**

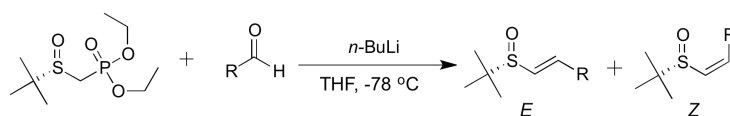
Sraa Abu-Melha\*



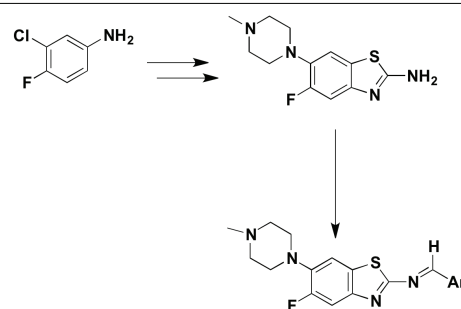
Thiocarbamoyl Derivative    Thiophene    Antimicrobial Activity    Pyridylacetophenone

**1272 Stereoselective Synthesis of Chiral  $\alpha,\beta$ -Unsaturated *tert*-Butyl Sulfoxides Derivatives by the Horner-Wadsworth-Emmons Reaction**

Bo Liu, Lingyan Chen, and Zihua Sun\*

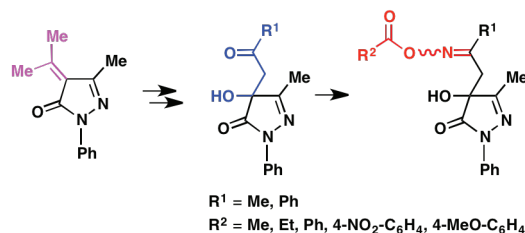

 Stereoselective Synthesis    Chiral  $\alpha,\beta$ -Unsaturated *tert*-Butyl Sulfoxide Derivative    Horner-Wadsworth-Emmons Reaction

- 1282 Design and Synthesis of Benzothiazole Schiff Bases of Potential Antitumor Activity**  
 Thuraya Al-Harthy, Raid Abdel-Jalil,\* Wajdi Zoghaib, Maren Pflüger, Elisabeth Hofmann, and Harald Hundsberger



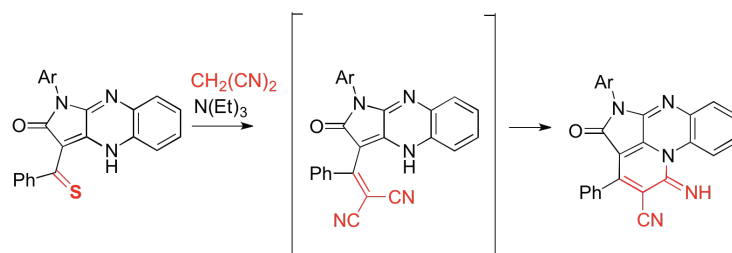
Benzothiazole Piperazine Antitumor Agent

- 1293 Synthesis and DNA Cleavage Activity of Functionalized Pyrazol-3-ones Containing Oxime Ester**  
 Eiichi Masumoto, Nobuhiro Kashige, Fumi Okabe, Fumio Miake, Kenji Yamagata, and Hiroshi Maruoka\*



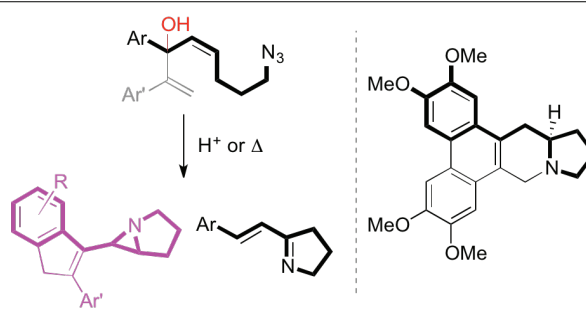
Pyrazole Oxime Acylation Reaction Alkylidenepyrazolone DNA Cleavage Activity

- 1307 Synthesis of the New Heterocyclic System 5,6,10b-Triazaacephenanthrylene, a Nitrogen Analogue of Aristolactams**  
 Katarzyna Ostrowska,\* Karol Dudek, and Bogdan Musielak



5,6,10b-Triazaacephenanthrylene Enaminothioenone Thio-Knoevenagel Condensation Reaction Tandem Catalysis Aristolactam

- 1313 Approach to Phenanthroindolizidine Alkaloids Using Organic Azides with 1-Aryl Allylic Alcohols: Unexpected Tandem Reactions to Indenyl Aziridines via Nazarov Cyclization**  
 Taiki Yokoi, Takahiro Sugiura, Hiroki Tanimoto,\* Tsumoru Morimoto, Yasuhiro Nishiyama, and Kiyomi Kakiuchi



Organic Azide Schmidt Reaction Nazarov Cyclization Reaction Alkaloid Unsaturated Imine

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

---

- 1329 Polyketides
  - 1334 Aromatics
  - 1337 Terpenes
  - 1339 Alkaloids
  - 1346 Miscellaneous
- 

■ BRUSH UP YOUR HETEROCYCLES

---

- 1349 Brush Up Your Heterocycles
-

## Contributors To This Issue

1282 Abdel-Jalil, Raid  
 1261 Abu-Melha, Sraa  
 1282 Al-Harthy, Thuraya  
 1224 Arafa, Wael A. A.  
 1245 Chen, Hongju  
 1272 Chen, Lingyan  
 1307 Dudek, Karol  
 1204 Gao, Yan  
 1187 Hirano, Koji  
 1282 Hofmann, Elisabeth  
 1245 Hu, Zhanxin  
 1282 Hundtberger, Harald  
 1215 Jie, Jiyang  
 1313 Kakiuchi, Kiyomi  
 1293 Kashige, Nobuhiro  
 1204 Lei, Ya-Nan  
 1215 Li, Haoyi  
 1171 Li, Lihua  
 1245 Liang, Guangyi  
 1272 Liu, Bo  
 1204 Liu, Qing-Lei  
 1171 Ma, Cheng  
 1293 Maruoka, Hiroshi  
 1293 Masumoto, Eiichi  
 1293 Miake, Fumio  
 1187 Miura, Masahiro  
 1313 Morimoto, Tsumoru  
 1307 Musielak, Bogdan  
 1187 Najib, Atifah  
 1313 Nishiyama, Yasuhiro  
 1293 Okabe, Fumi  
 1307 Ostrowska, Katarzyna  
 1282 Pflüger, Maren  
 1215 Piao, Meihui  
 1224 Rabeh, Saleh A.  
 1224 Shaker, Raafat M.  
 1313 Sugiura, Takahiro  
 1272 Sun, Zhihua  
 1187 Tabuchi, Sho  
 1313 Tanimoto, Hiroki  
 1204 Wang, Wei  
 1245 Wen, Zhonghang  
 1171 Wu, Xian  
 1171 Xie, Xiaoxia  
 1245 Xu, Bixue  
 1293 Yamagata, Kenji  
 1215 Yang, Xiaobo  
 1313 Yokoi, Taiki  
 1245 Yuan, Jie  
 1171 Zhang, Jinsheng  
 1245 Zhang, Limei  
 1282 Zoghaib, Wajdi