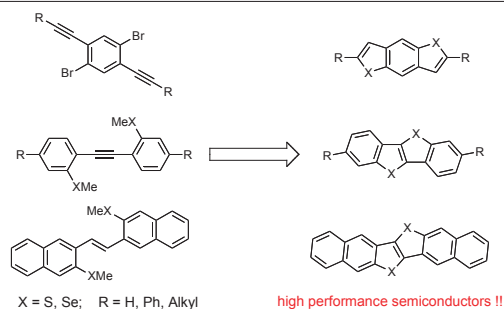


■ REVIEWS

1187 **Air-Stable and High-Mobility Organic Semiconductors Based on Heteroarenes for Field-Effect Transistors**

Shoji Shinamura, Itaru Osaka, Eigo Miyazaki, and Kazuo Takimiya\*

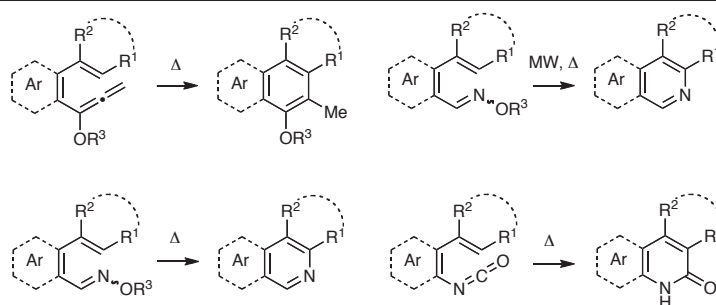


Organic Semiconductor    Heteroarene    Organic Field-Effect Transistor    Chalcogenophene    High Mobility

high performance semiconductors !!

1205 **Synthetic Studies on Nitrogen-Containing Fused-Heterocyclic Compounds Based on Thermal Electrocyclic Reactions of 6π-Electron and Aza 6π-Electron Systems**

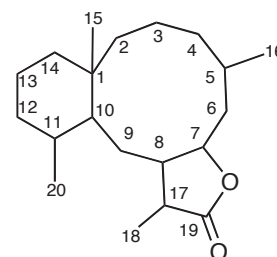
Tominari Choshi and Satoshi Hibino\*



Electrocyclization    Allene Mediated Hexatriene    1-Azahexatriene System    2-Azahexatriene System    Microwave

1241 **Survey of Briarane-Type Diterpenoids – Part IV**

Ping-Jyun Sung,\* Jui-Hsin Su, Wei-Hsien Wang, Jyh-Horng Sheu, Lee-Shing Fang, Yang-Chang Wu, Yung-Husan Chen, Hsu-Ming Chung, Yin-Di Su, and Yu-Chia Chang



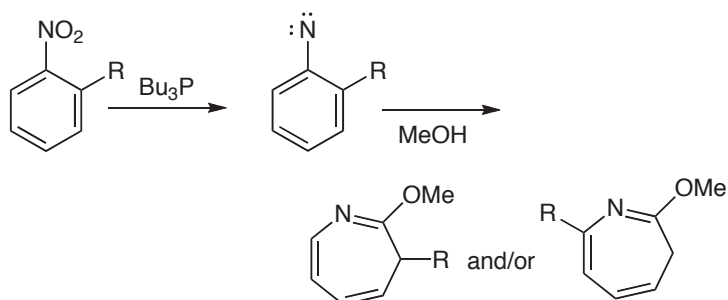
carbon skeleton of briarane-type compounds

Briarane    Gorgonaceae    Pennatulacea    Alismatale    Bioactivity

■ COMMUNICATIONS

1259 **Steric Effect on the Formation of 3H-Azepine Derivatives from *o*-Alkylphenylnitrene and Alcohol as a Nucleophilic Media**

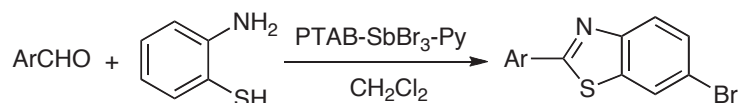
Siti Mariyah Ulfa, Hideki Okamoto, and Kyosuke Satake\*



Ring Expansion    Dehydroazepine    Benzoazirine

- 1267 **Regioselective One-Pot Synthesis of 2-Aryl-6-bromobenzothiazole from Arylaldehyde and 2-Aminothiophenol with Phenyltrimethylammonium Tribromide in the Presence of a Catalytic Amount of Antimony(III) Bromide**

Shinsei Sayama\*

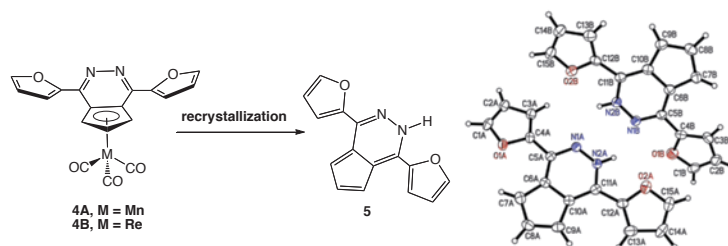


6-Bromo-1,3-benzothiazole    Phenyltrimethylammonium Tribromide    Arylaldehyde    2-Aminothiophenol    One-Pot Synthesis

## ■ PAPERS

- 1275 **Synthesis, Structure, and Theoretical Calculations of 1*H*-3,7-Difurlylcyclopenta[3,4-*d*]pyridazine**

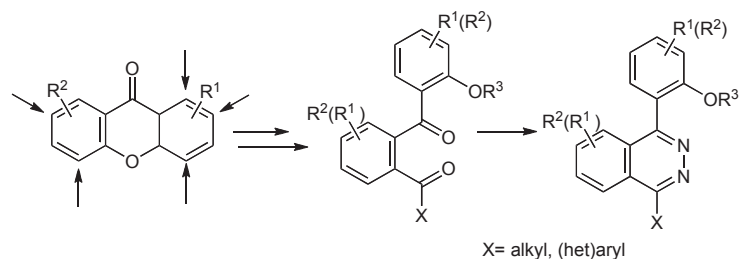
Chad A. Snyder,\* Nathan C. Tice, Jeremy B. Maddox, Sean Parkin, Aaron W. Daniel, and Jaron M. Thomas



Pyridazine    X-Ray Crystallography    Biomass    Electronic Study    Pi-Stacking

- 1291 **Xanthenes in Heterocyclic Synthesis. An Efficient and General Route for the Synthesis of Regioselectively Substituted Phthalazines**

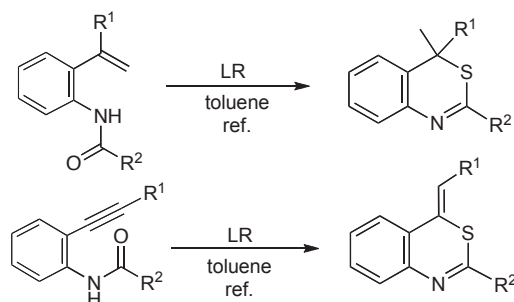
Yiannis Gardikis, Petros G. Tsoungas,\* Constantinos Potamitis, George Pairas, Maria Zervou, and Paul Cordopatis\*



Nucleophilic Cleavage    Oxidative Rearrangement

- 1303 **Synthesis of 3,1-Benzothiazines from 2-Alkenyl- and 2-Alkynylanilides and Lawesson Reagent**

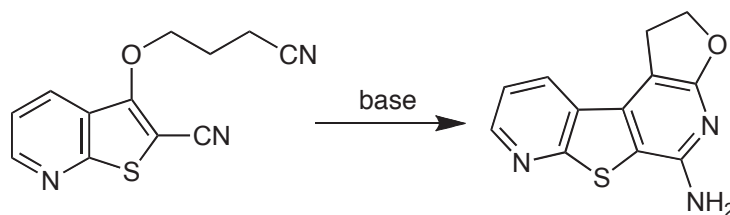
Kentaro Okuma,\* Saori Ozaki, Noriyoshi Nagahora, and Kosei Shioji



3,1-Benzothiazine    2-Alkenylanilide    2-Alkynylanilide    Lawesson Reagent    Tetraphosphorus Decasulfide

**1315 Polycyclic *N*-Heterocyclic Compounds. Part 70: Synthesis of 5-Amino-1,2-dihydrofuro[2,3-*b*]pyrido-[3',2':4,5]thieno[3,2-*d*]pyridines and Related Compounds. Evaluation of Effects on Lipoprotein Lipase mRNA Expression**

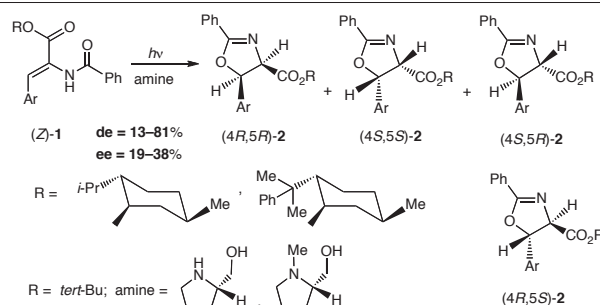
Kensuke Okuda,\* Hideyasu Takechi, Takashi Hirota, and Kenji Sasaki



Truce-Smiles Rearrangement    Lipoprotein Lipase    Furo[2,3-*b*]pyridine    Cyclization    Ring Cleavage

**1329 Asymmetric Cyclization Reactions of *N*-Benzoyl- $\alpha$ -dehydroarylanine Alkyl Esters *via* Photoinduced Electron Transfer from Achiral and Chiral Amines**

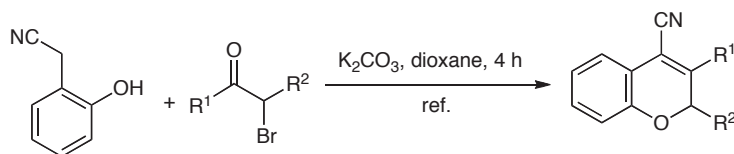
Yuji Sasaki, Haruo Watanabe, Tetsutaro Igarashi, and Tadamitsu Sakurai\*



$\alpha$ -Dehydroamino Acid Derivative    Photoinduced Electron Transfer    Dihydrooxazole    Symmetric Cyclization

**1355 Convenient One-Pot Synthesis of 3-Aryl-2*H*-chromene-4-carbonitriles *via* a Tandem *O*-Alkylation-Knoevenagel Condensation**

Yanhong Chen, Haoyue Xiang, Yuyuan Xie, and Chunhao Yang\*

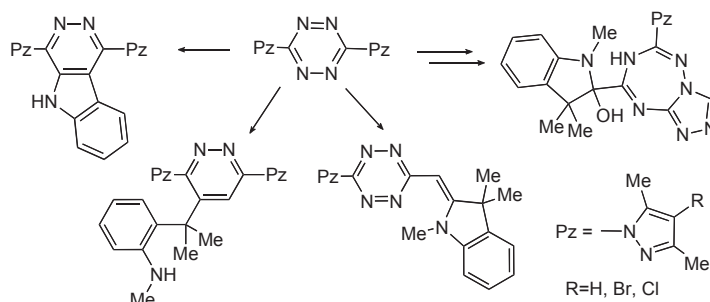


One-Pot Synthesis    3-Aryl-2*H*-chromene-4-carbonitrile     $\alpha$ -Alkylation    Knoevenagel Condensation    Tandem Reaction

■ SHORT PAPERS

**1363 Reactions of 3,6-Bis(3,5-dimethyl-4-*R*-pyrazol-1-yl)-1,2,4,5-tetrazines with Indole and 1,3,3-Trimethyl-2-methyleneindoline**

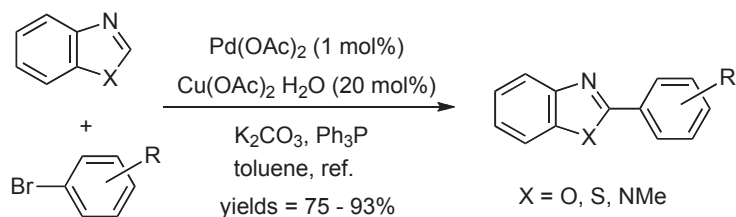
Rashida I. Ishmetova, Nina K. Ignatenko, Ilya N. Ganebnykh, Svetlana G. Tolshchina, Pavel A. Slepukhin, and Gennady L. Rusinov\*



[4+2] Cycloaddition    Pyridazine    Ring Expansion    Nucleophilic Substitution

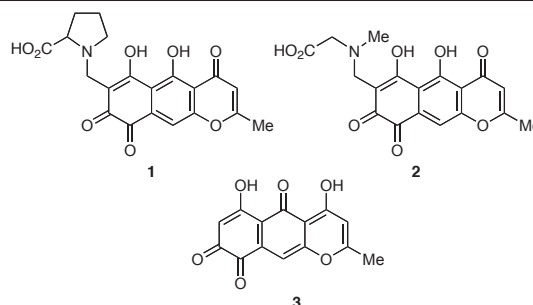
**1371 An Efficient Arylation of Benzoazoles with Aryl Bromides by Practical Palladium-Copper Cocatalytic System**

Xue-Ming Yan, Xue-Rong Mao, and Zhi-Zhen Huang\*

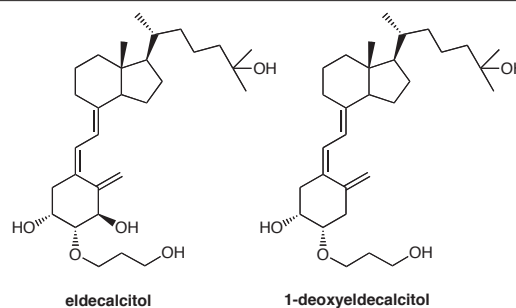


Benzoazole    Synthesis    Direct Arylation    Palladium/Copper Catalyst    Cocatalytic System

**1377 New Red Pigments from Lichen *Lethariella sinensis***

 Ayako Tanaka, Kaoru Kinoshita, Koji Ichinose,  
 Tadayasu Togawa, Kiyotaka Koyama, Takao Narui,  
 Li-song Wang, and Kunio Takahashi\*

 Lichen    *Lethariella sinensis*    Rubrosinensiquinone    1,2-Quinone    NMR Spectrometry

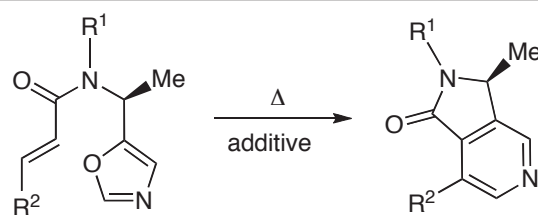
**1385 Synthesis of 1-Deoxyeldecalcitol, a Biologically Interesting Analog of 1 $\alpha$ ,25-Dihydroxy-2 $\beta$ -(3-hydroxypropoxy)vitamin D<sub>3</sub> (Eldecalcitol)**

 Hirotaka Sasaki, Kohei Eto, Keisuke Takahashi,  
 Jun Ishihara, Susumi Hatakeyama, and  
 Noboru Kubodera\*


Calcitriol    Calcifediol    Eldecalcitol    1-Deoxyeldecalcitol    Trost's Coupling Methodology

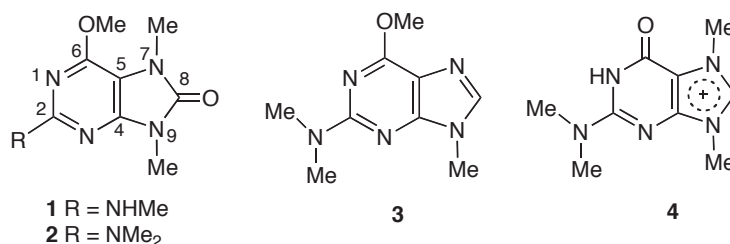
**1395 Formation of the 1*H*-Pyrrolo[3,4-*c*]pyridin-1-one Skeleton via Intramolecular Diels-Alder Reaction of Oxazoles**

Masashi Ohba,\* Kei Fukuyama, Yuko Izumi, and Masaki Inaki


 $\text{R}^1 = \text{PhCH}_2, \text{Ph}_2\text{CH}$ 
 $\text{R}^2 = \text{Me}, \text{H}$ 

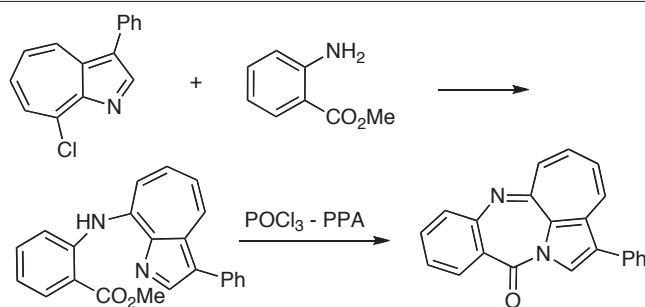
 1*H*-Pyrrolo[3,4-*c*]pyridin-1-one    Oxazole    Diels-Alder Reaction    Intramolecular Cycloaddition    Copper Trifluoromethanesulfonate

**1405 Purinium Derivatives with Antitumor Activities from *Heterostemma alatum* Wight**

 Wen-Wei Fu, Chang-Heng Tan,\* Peng-Yu Zhuang,  
 Shu-Min Yang, Hong-Feng Luo, Jun-Jie Tan, Ping Liu,  
 and Da-Yuan Zhu

*Heterostemma alatum* Wight    Heteromine I    Heteromine D    Cytotoxicity

1409 **Synthesis of 12,12a-Dihydro-7,12a-diazacyclohepta[*cd*]-benz[*g*]azulen-12-one (Cyclohepta[*mm*]pyrrolo[1,2-*c*][1,4]-benzodiazepin-12-one) and Evaluation of Cytotoxic Activity against HeLa S3 Cells**

Eiko Yoshioka, Hiroyuki Fujii, Toshihiro Murafuji, Reiko Ikeda, Takeo Konakahara, Takahiro Gunji, and Noritaka Abe\*



Azaazulene

Pyrrolo[1,2-*c*][1,4]benzodiazepine Derivative

Cytotoxic Activity

Anticancer

Intramolecular Cyclization

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

1417 Polyketides

1423 Aromatics

1425 Terpenes

1427 Steroids

1428 Alkaloids

1434 Miscellaneous

## Contributors To This Issue

1409	Abe, Noritaka	1259	Satake, Kyosuke
1241	Chang, Yu-Chia	1267	Sayama, Shinsei
1355	Chen, Yanhong	1241	Sheu, Jyh-Horng
1241	Chen, Yung-Husan	1187	Shinamura, Shoji
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1371	Mao, Xue-Rong	1405	Zhuang, Peng-Yu
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