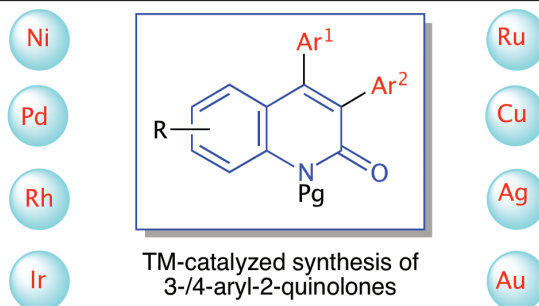


■ ANNOUNCEMENT

- 1307 Heterocycles Award  
HETEROCYCLES Contents\*

■ REVIEW

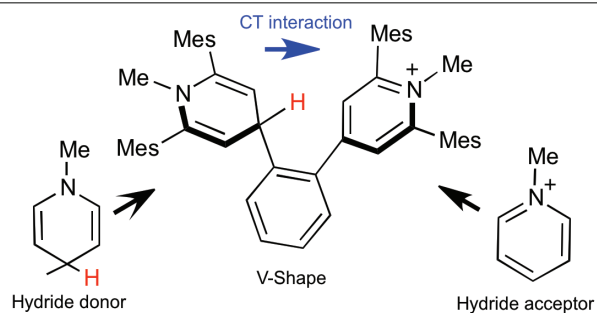
- 1309 Recent Advances in Transition-Metal-Catalyzed Synthesis of 3- and/or 4-Aryl-2(1*H*)-quinolones  
Yoshihiko Yamamoto\*



Transition-Metal Catalyst    2-Quinolone    Cross Coupling Reaction    Annulation

■ COMMUNICATION

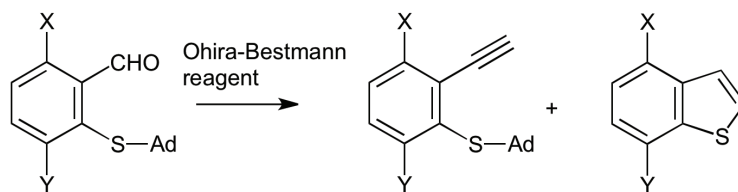
- 1345 Interaction of the Dihydropyridine/Pyridinium Redox Pair Fixed into a V-Shaped Conformation  
Yasukazu Hirao,\* Mitsuru Teraoka, and Takashi Kubo\*



## ■ PAPERS

**1355 Unexpected Formation of 4,7-Dihalobenzo[*b*]thiophenes Using Ohira-Bestmann Reagent and Reactivity of the Halogen-Substituted Benzo[*b*]thiophenes in Suzuki-Miyaura Coupling with Phenylboronic Acid**

Kozo Toyota,\* Hiroataka Mutoh, Hiroki Kishi, Shinichi Mikami, Hiroki Tanaka, Shuhei Yoshida, and Daisuke Naganuma

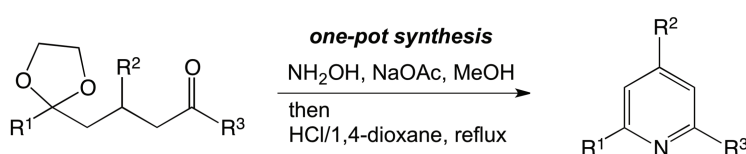


Ad = 1-adamantyl; X, Y = Cl, Br, or I

Molecular Scaffold    Benzothiophene    Alkyne    Ohira-Bestmann Reagent    Suzuki-Miyaura Cross Coupling Reaction

**1375 The One-Pot Synthesis of Pyridine Derivatives from the Corresponding 1,5-Dicarbonyl Compounds**

Hiromichi Mihara, Takeru Miyakoshi, Yui Kikuchi, and Hiroyuki Konno\*



Pyridine    Acid Promoted Synthesis    One-Pot Synthesis

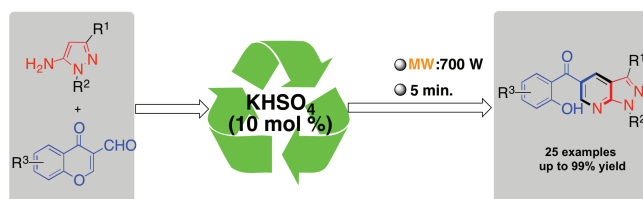
**1384 Rearrangement Reaction in 1-Hydroxyindole Chemistry: A Synthesis of Novel 7-Substituted Yohimbine, and 4a-Substituted 1,2,3,4-Tetrahydro- $\beta$ -carboline Derivatives**

Katsumasa Yoshino, Fumio Yamada, Koichi Noguchi, Kiyoka Kusuno, and Masanori Somei\*

 1-Hydroxyyohimbine    9-Hydroxy- $\beta$ -carboline    Rearrangement Reaction    7-Substituted Yohimbine    4a-Substituted 1,2,3,4-Tetrahydro- $\beta$ -carboline

**1408 Fast, Solvent-Free, and Highly Efficient Synthesis of Pyrazolo[3,4-*b*]pyridines Using Microwave Irradiation and  $\text{KHSO}_4$  as a Reusable Green Catalyst**

Jinjing Qin, Zhenhua Li,\* Xiaomeng Sun, Yi Jin, and Weike Su



- metal- and solvent-free
- $\text{KHSO}_4$  as reusable catalyst
- good to excellent yields within a short reaction time
- simple operation and easy purification of products
- broad functional-group tolerance

 $\text{KHSO}_4$     Microwave Irradiation    Solvent-Free    Pyrazolo[3,4-*b*]pyridine

**1423 Elucidation of the Conformational Properties of 3-Pyridinoyl Indoles as Intermediates of Cannabimimetics**

Koji Araki, Hidetsugu Tabata, Kosho Makino, Ryohei Ujiie, Kohei Sezaki, Hiroshi Nakayama, Tetsuta Oshitari, Hideaki Natsugari, and Hideyo Takahashi\*

Cannabimimetic    X-Ray Crystal Structure    Conformational Analysis    3-Pyridinoyl Indole

■ SHORT PAPERS

1437 **Anti-TMV Isoquinoline Alkaloids from the Whole Plants of *Thalictrum glandulosissimum***

Guang-Hui Kong, Yu-Ping Wu, Eric Yin, Bradley Liu, Zhen-Yuan Xia, Hai-Tao Huang, Guang-Yu Yang, and Qiu-Fen Hu,\*and Chun-Man Song\*

Isoquinoline Alkaloid    *Thalictrum glandulosissimum*    Anti-TMV Activity

1445 **A Propeller-Shaped Mesomeric Betaine, Tetraphenylbenzene-1-quinolinium-2-benzoate**

Sviatoslav Batsyts, Felix Lederle, Eike G. Hübner, Jörg Adams, Jan C. Namyslo, and Andreas Schmidt\*

Conjugation    Cross-Conjugation    Pseudo-Cross-Conjugation    Mesoionic Compound    Hexaheteroarylbenzene

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 1455 Polyketides
- 1457 Aromatics
- 1459 Terpenes
- 1460 Alkaloids
- 1472 Miscellaneous

■ BRUSH UP YOUR HETEROCYCLES

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1473 Brush Up Your Heterocycles

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