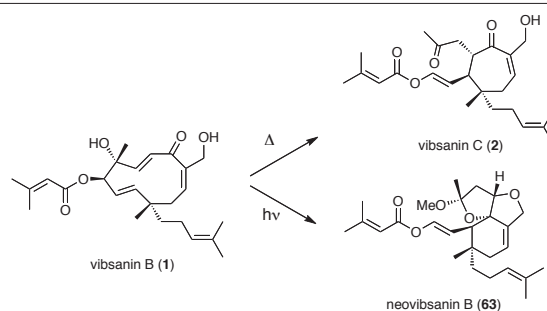


■ REVIEWS

1571 Chemistry and Biological Activities of Vibsane-Type Diterpenoids

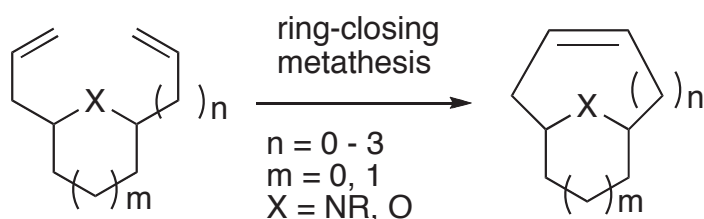
Yoshiyasu Fukuyama,* Miwa Kubo, Tomoyuki Esumi, Kenichi Harada, and Hideaki Hioki



Vibsane-Type Diterpenoid 11-Membered Ring Subtype, Vibsananin B 7-Membered Ring Subtype, Vibsananin C Rearranged Subtype, Neovibsananin B

1603 Synthesis of Nitrogen- and Oxygen-Bridged Seven- to Ten-Membered Carbocycles Using Metathesis Reactions

Ken-ichi Takao* and Kin-ichi Tadano*

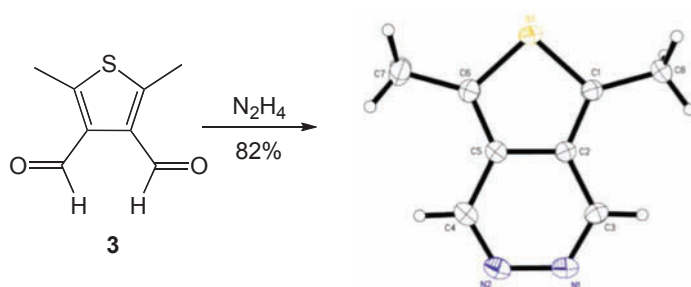


Ring-Closing Metathesis Enyne Metathesis Ring-Opening/Cross Metathesis Natural Product Synthesis

■ PAPERS

 1631 Synthesis and Structure of 5,7-Dimethylthieno[3,4-*d*]-pyridazine

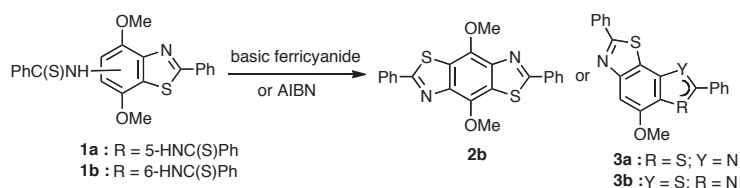
Nathan C. Tice,* Sarah M. Peak, and Sean Parkin



Pyridazine Thiophene X-Ray Crystal Structure Ring Closure Electronic Material

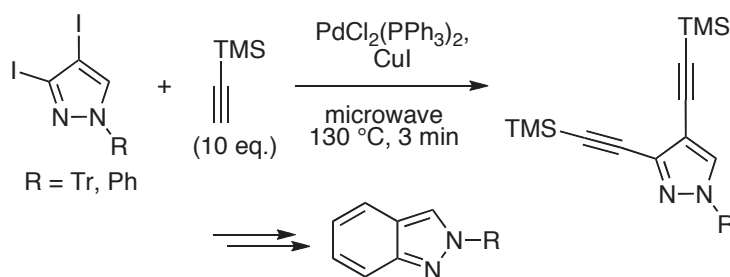
1641 Synthesis of Some Novel Benzobisthiazoles

Oscene V. Barrett, Nadale K. Downer-Riley, and Yvette A. Jackson*


 Thiobenzanilide Benzobisthiazole *para* Substitution Jacobson Synthesis AIBN

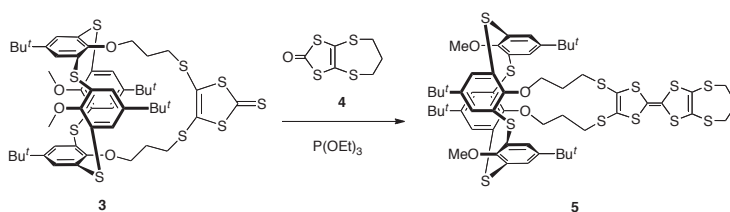
1651 Microwave-Assisted Selective Synthesis of 2*H*-Indazoles *via* Double Sonogashira Coupling of 3,4-Diiodopyrazoles and Bergman–Masamune Cycloaromatization

Hayato Ichikawa,* Haruhiko Ohfuné, and Yoshihide Usami


 Cyclization Sonogashira Cross-Coupling Reaction 2*H*-Indazole Bergman–Masamune Cycloaromatization Pyrazole

1661 Synthesis, Structure and Electrochemical Behavior of a Novel Redox-Active Thiacalix[4]arene-Tetrathiafulvalene Assembly

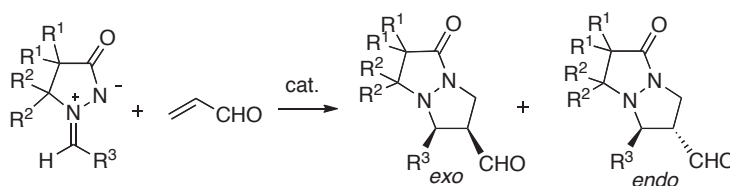
Bang-Tun Zhao,* Wen-Bo Guo, and Pu-Zhou Hu



Thiacalix[4]arene Tetrathiafulvalene Synthesis Crystal Structure Cyclic Voltammetry

1669 Asymmetric 1,3-Dipolar Cycloaddition Reactions of Azomethine Imines with Acrolein Catalyzed by L-Proline and Its Derivatives

Hiroyuki Suga,* Tadashi Arikawa, Kenosuke Itoh, Yukihiisa Okumura, Akikazu Kakehi, and Motoo Shiro

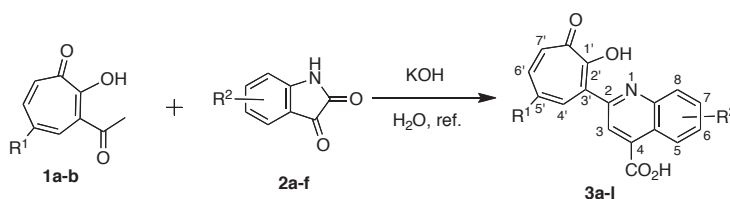

 (*S*)-indoline-2-carboxylic acid (30 mol%): *exo:endo* = 91:9 - > 99:1, 75–98% ee (*exo*)

 L-proline (30 mol%): *endo:exo* = 83:27 - > 99:1, 31–83% ee (*endo*)

Azomethine Imine 1,3-Dipolar Cycloaddition Organocatalyst Asymmetric Induction Enantioselectivity

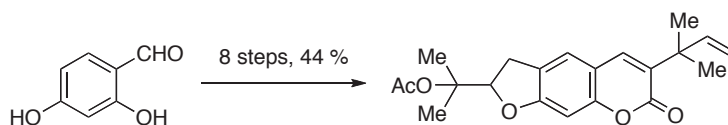
NOTES
1689 First Synthesis of 2-Tropolonylquinoline-4-carboxylic Acid Derivatives *via* Pfitzinger Reaction in Water

Wentao Gao,* Xiaofei Zhang, Yang Li, Huaye Liu, and Kimiaki Imafuku


 $R^1 = \text{H, Br}; R^2 = \text{H, Me, Et, Cl, Br}$

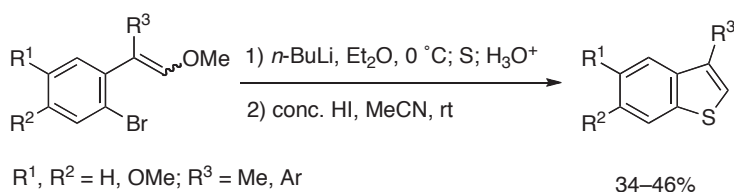
Acetyltropolone Isatin Pfitzinger Reaction Water Quinoline-4-carboxylic Acid

1697 Improved Total Synthesis of Racemic Rutamarin

 Ling Tong, Ruisheng Xiong, Hong Jiang, Xiangrui Jiang,*
 Hongbin Sun,* Hualiang Jiang, and Jingshan Shen


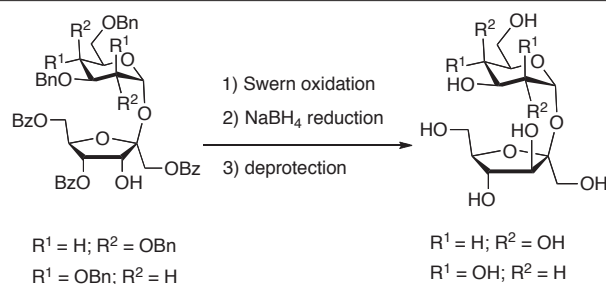
Rearrangement Cyclization Epoxidation Furanocoumarin

1703 Synthesis of 3-Substituted Benzo[*b*]thiophenes *via* the Reaction of α -Substituted 2-Lithio- β -methoxystyrenes with Sulfur

 Kazuhiro Kobayashi,* Daisuke Nakai, Shuhei Fukamachi,
 and Hisatoshi Konishi

 Benzo[*b*]thiophene 2-Lithiostyrene Sulfur Hydriodic Acid 2-Bromostyrene

1711 Synthesis of Galacto- and Mannosucroses

Atsushi Ueda, Takanori Yamashita, and Jun'ichi Uenishi*



Galactosucrose Mannosucrose Glycosylation Stereoselective Reduction Deprotection

NEW HETEROCYCLIC NATURAL PRODUCTS

- 1721 Polyketides
- 1725 Aromatics
- 1730 Terpenes
- 1743 Steroids
- 1746 Alkaloids
- 1753 Miscellaneous

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 1755 Polyketides
 - 1760 Aromatics
 - 1762 Terpenes
 - 1763 Alkaloids
 - 1772 Miscellaneous
-

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1669 Arikawa, Tadashi
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1571 Esumi, Tomoyuki
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