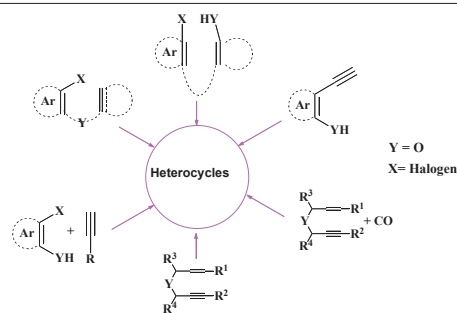


■ REVIEW

517 **Recent Development in Palladium-Mediated Synthesis of Oxygen Heterocycles**

Krishna C. Majumdar,* Buddhadeb Chattopadhyay, Pradip K. Maji, Sudip K. Chattopadhyay, and Srikanta Samanta

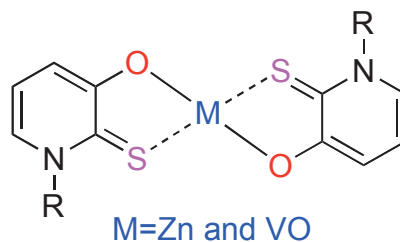


Heck Reaction Cycloaddition Heterocyclization Multicomponent Reaction Intramolecular Reaction

■ PAPERS

585 **Synthesis of Metal Complexes with 1-Substituted 3-Hydroxy-2(1*H*)-pyridinethiones and Their Insulin-Mimetic Activities**

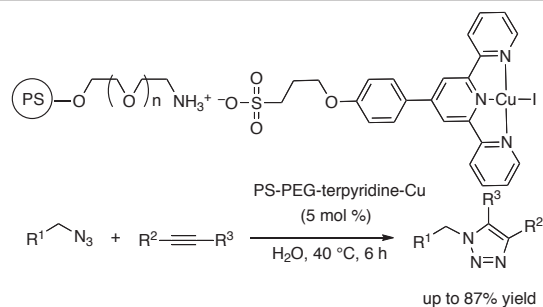
Akira Katoh,* Hiroko Yokoyama, Yuriko Matsumura, Yutaka Yoshikawa, Hiroyuki Yasui, and Hiromu Sakurai



3-Hydroxy-2(1*H*)-pyridinethione Zinc(II) Complex Vanadyl Complex Insulin-Mimetic Activity

601 **Reusable Polymer-Supported Terpyridine Copper Complex for [3+2] Huisgen Cycloaddition in Water**

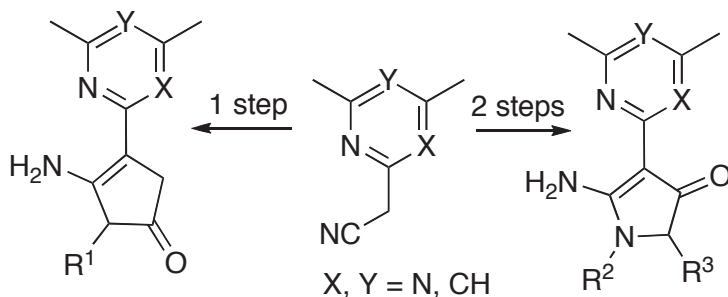
Toshimasa Suzuka,* Kazumasa Ooshiro, and Ken'yu Kina



Copper Terpyridine Click Chemistry Triazole Azide

611 **Synthesis of 3-(Pyrimidinyl)pyrrole Derivatives**

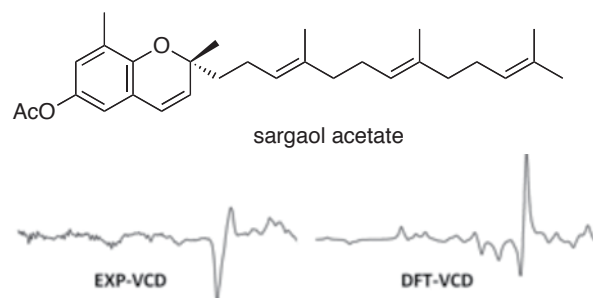
Igor Yu. Nestorak, Anton V. Tverdokhlebov,* Andrey A. Tolmachev, and Yulian M. Volovenko



Amino Acid Chloroacetamide Nitrile Pyrimidine Pyrrole

625 Absolute Configuration of Sargaol Acetate Using DFT Calculations and Vibrational Circular Dichroism

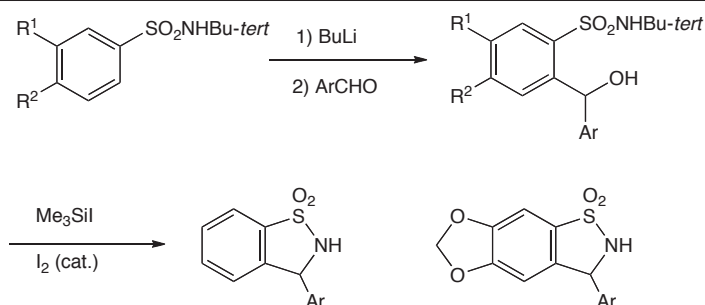
Marcelo A. Muñoz, Carlos Areche, Juana Rovirosa, Aurelio San-Martín, and Pedro Joseph-Nathan*



Sargaol Acetate Chromene Absolute Configuration Vibrational Circular Dichroism Density Functional Theory

637 Iodotrimethylsilane and Catalytic Iodine Promoted Cyclization for the Facile Synthesis of 3-Monoarylated Five-Membered Benzosultams

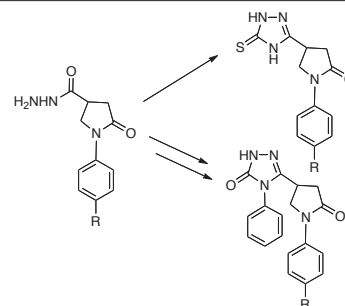
Yue-Hui Dong, Qiong-Wei Ni, Shu-Tao Ma, and Zhao-Peng Liu*



Iodotrimethylsilane NaI/TMSCI/MeCN Iodine Cyclization Benzosultam

649 Synthesis and Biological Activity of Mono- and Disubstituted 1,2,4-Triazole Derivatives

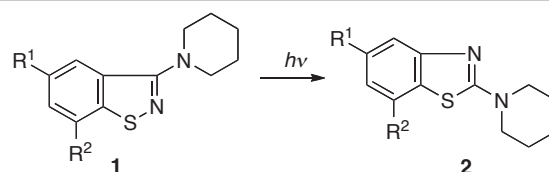
Vytautas Mickevičius,* Vida Intaitė, Aušra Voskienė, Kristina Kantminienė, Maryna Stasevych, Olena Komarovska-Porokhnyavets, and Volodymyr Novikov



Antibacterial Activity Antifungal Activity Hydrazinocarboxamide Semicarbazide 1,2,4-Triazole Derivative

659 Effect of Nitro-Substitution on the Photochemistry of 3-Piperidino-1,2-benzisothiazole Derivatives: A Mechanistic Investigation

Hiroharu Tanikawa, Kazuhiro Ishii, Shun Kubota, Takashi Sasanuma, Shiki Yagai, Akihide Kitamura, and Takashi Karatsu*

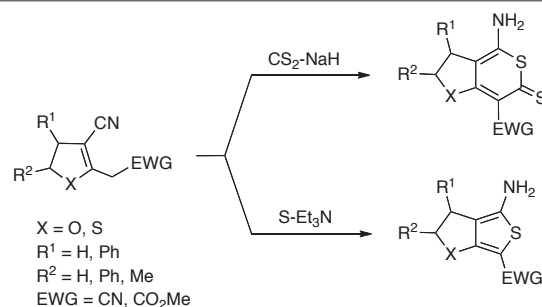


Reaction	R ¹	R ²	PD1 yield
1a → 2a	-NO ₂	-H	87 %
1b → 2b	-H	-NO ₂	46 %
1c → 2c	-H	-H	91 %

Photochemical Isomerization Benzisothiazole Benzothiazole Substituent Effect DFT Calculation

675 Synthesis of Fused Thiopyranthione and Thiophene Derivatives from 4,5-Dihydro-3-thiophene(and -3-furan)-carbonitriles Having an Active Methylene Group at C-2 Position

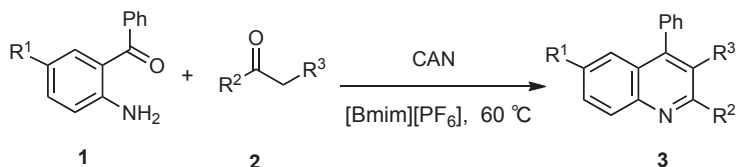
Hiroshi Maruoka,* Fumi Okabe, Keishi Yamasaki, Eiichi Masumoto, Toshihiro Fujioka, and Kenji Yamagata



Thiopyranofuran Thienothiopyran Thienothiophene Thienofuran Heterobicyclic

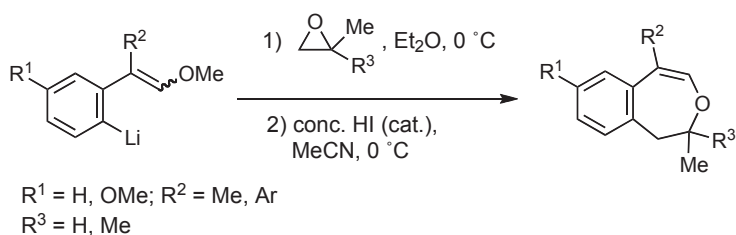
■ NOTES

689 The First Cerium(IV) Ammonium Nitrate (CAN)-Catalyzed Friedländer Synthesis of Quinolines in Ionic Liquid

 Rei-Sheu Hou,* Huey-Min Wang, Iou-Jiun Kang,
 Hau-Dung Du, and Ling-Ching Chen*


Quinoline Friedländer Synthesis CAN Ionic Liquid

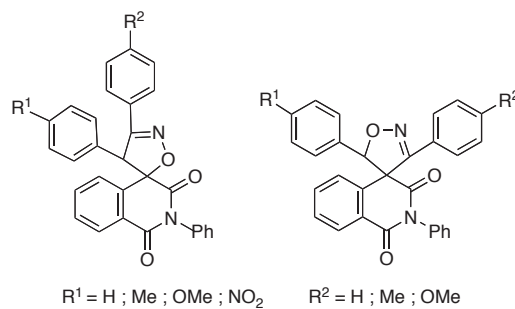
699 Synthesis of 1,2-Dihydro-3-benzoxepins by the Reaction of 2-Lithio-β-methoxystyrenes with Epoxides Followed by Hydriodic Acid Catalyzed Cyclization

 Kazuhiro Kobayashi,* Hiroo Hashimoto, Toshiyuki Nagaoka,
 Yuu Shirai, and Hisatoshi Konishi


1,2-Dihydro-3-benzoxepin 2-Lithio-β-methoxystyrene Epoxide Hydriodic Acid Acid Catalyzed Cyclization

707 Regioselective Synthesis and Structure of New Spiro-isoquinolinedione Derivatives

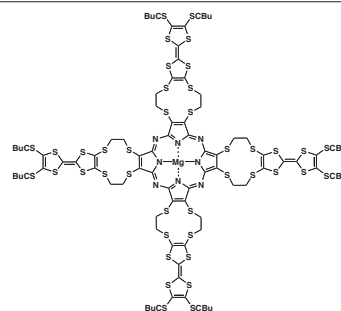
Nafâa Jegham, Yakdhane Kacem, and Béchir Ben Hassine*



1,3-Dipolar Cycloaddition Regiochemistry Spiro-Heterocycle Nitrile Oxide Isoquinoline-1,3-dione

717 A Novel Tetra(tetrathiafulvalene-Thiacrown Ether)-substituted Porphyrazine: Synthesis, Electrochemical, and Control Aggregation in Solution by Complexation of Transition-Metal Ions

Ruibin Hou, Cuiping Jiang, and Bingzhu Yin*



Porphyrazine Tetrathiafulvalene Crown Ether Dimerization CT Complex

■ NEW HETEROCYCLIC NATURAL PRODUCTS

- 727 Polyketides
 - 733 Aromatics
 - 743 Terpenes
 - 756 Steroids
 - 759 Alkaloids
 - 772 Miscellaneous
-

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 777 Polyketides
 - 781 Aromatics
 - 783 Terpenes
 - 786 Steroids
 - 787 Alkaloids
 - 794 Miscellaneous
-

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