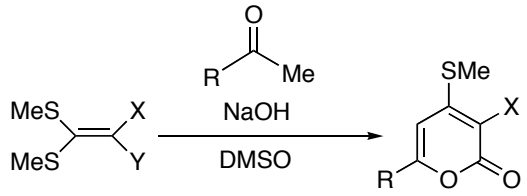
■ REVIEWS

555 **Development of Fluorescent 2-Pyrone Derivatives Using Ketene Dithioacetals for Organic EL Devices**

Masayori Hagimori, Naoko Mizuyama, Yasuhiro Shigemitsu, Bo-Cheng Wang, and Yoshinori Tominaga*

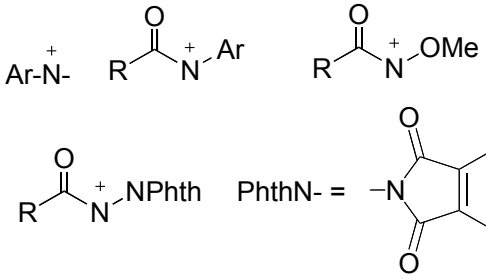


X=CN, CO_2Me, NO_2, COPh, etc
Y=CN, CO_2Me, H, etc

Organic EL Material Solid State Fluorescence Ketene Dithioacetal

571 **Application of Stable Nitrenium Ions to Preparative Organic Chemistry**

Yasuo Kikugawa*

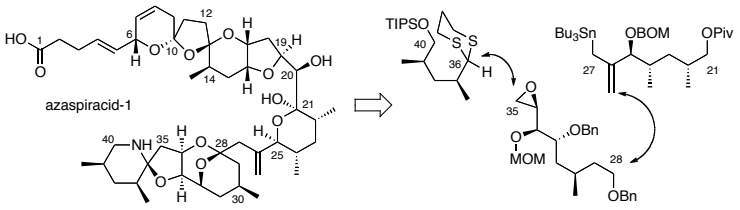


Nitrenium Ion Nitrogen Heterocycle Phenyliodine(III) Bistrifluoroacetate Cyclization Spirocyclization

■ COMMUNICATIONS

609 **Synthesis of Open-Chain C21-C40 Fragment of Azaspiracid-1**

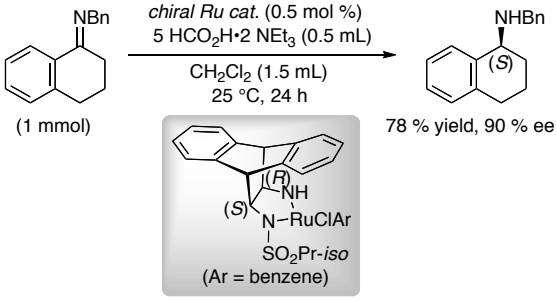
Masato Oikawa,* Taizo Iwayama, and Makoto Sasaki*



Azaspiracid C21-C40 Fragment EFGHI Ring Differential Protection α-Chlorosulfide

617 **A Chiral "Roofed" *cis*-Diamine-Ru(II) Complex: An Efficient Catalyst for Asymmetric Transfer Hydrogenation of Ketimines**

Hirofumi Matsunaga, Kyoko Nakanishi, Makoto Nakajima, Takehisa Kunieda, and Tadao Ishizuka*

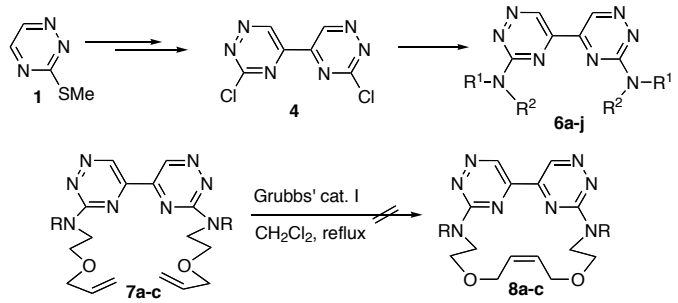


Transfer Hydrogenation Ketimine Ruthenium Complex Chiral *cis*-1,2-Diamine

■ PAPERS

623 **A Convenient Method of Preparation of 3,3'-Dichloro-5,5'-bi-1,2,4-triazine and Its Synthetic Applications**

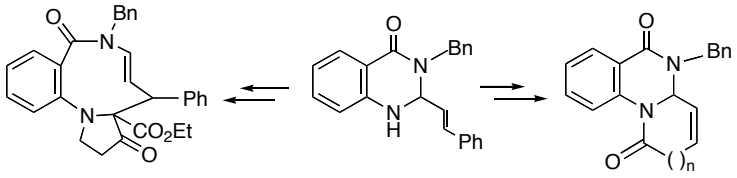
Ewa Wolińska*



3,3'-Dichloro-5,5'-bi-1,2,4-triazine 3,3'-Diamino-5,5'-bi-1,2,4-triazine Nucleophilic Substitution Ring Closing Metathesis Alkenyl Ether

635 **Efficient Syntheses of 1-Azatricyclic Ring Systems from Anthranylamide**

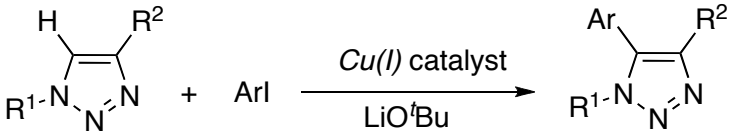
Daniele Muroni, Mauro Mucedda, and Antonio Saba*



Phenyliodonium Ylide Ammonium Ylide Alkaloid Cascade Rearrangement

645 **Copper(I)-Catalyzed Direct Arylation of 1,4-Disubstituted 1,2,3-Triazoles with Aryl Iodides**

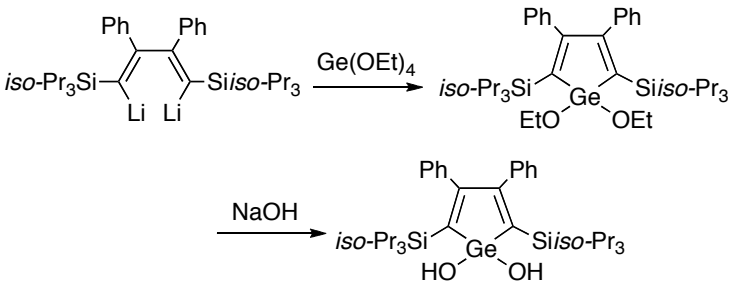
Shin-ichi Fukuzawa,* Eiji Shimizu, and Kenichi Ogata



Triazole Direct Arylation Coupling Reaction Copper Catalyst Click Chemistry

657 **Novel Reactions of Steric Encumbered 1,4-Dilithio-1,3-butadiene with Group 14 Electrophiles: Formation and Structure of Stable Dihydroxygermole**

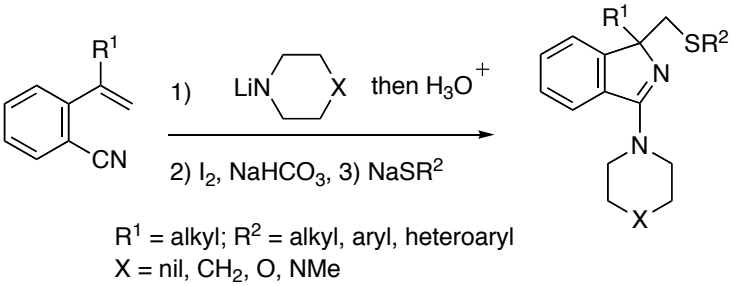
Masaichi Saito,* Michio Nakamura, and Tomoyuki Tajima



1,4-Dilithio-1,3-butadiene Group 14 Electrophile Diethoxygermole Dihydroxygermole

669 **Synthesis of 1*H*-Isoindol-3-amine Derivatives by Iodine-Mediated Cyclization of 2-Vinylbenzamidine Derivatives**

Kazuhiro Kobayashi,* Mai Horiuchi, Shuhei Fukamachi, and Hisatoshi Konishi

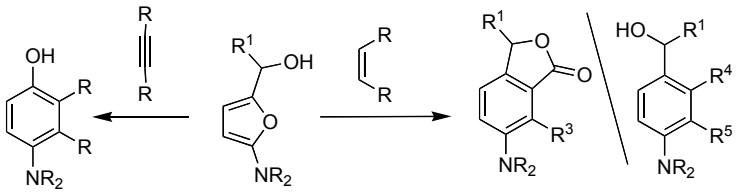


R^1 = alkyl; R^2 = alkyl, aryl, heteroaryl
X = nil, CH_2, O, NMe

1*H*-Isoindole Iodine Iodoimination 2-Vinylbenzamidine 2-Vinylbenzonitrile

679 **First Entry to [4+2] Cycloadditions Involving 5-Amino-2-furanmethanols**

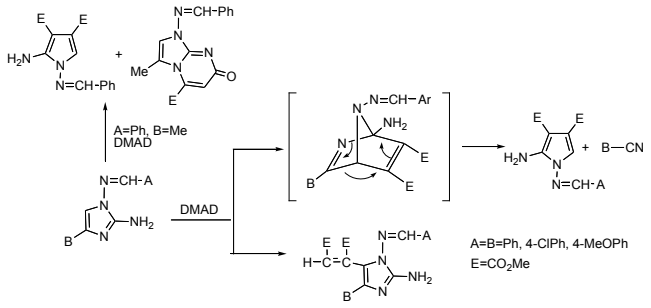
Raouf Medimagh, Sylvain Marque,* Damien Prim,* and Saber Chatti



Aminofuran Amino Alcohol Aminophenol Diels-Alder Reaction Lactone

691 **Synthesis of Nitrogen-Containing Heterocycles 12. Reactions of 2-Amino-1-benzylideneamino-1*H*-imidazoles with Dimethyl Acetylenedicarboxylate**

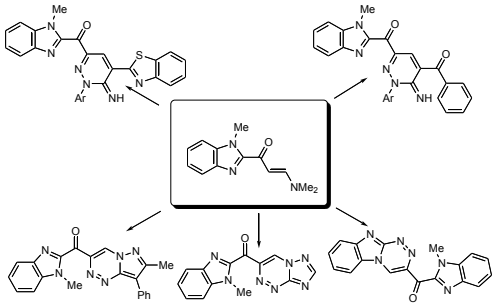
Yoshiko Miyamoto*



Dimethyl 2-amino-1-benzylideneamino-4-aryl-1*H*-imidazole-3,4-dicarboxylate Dimethyl 2-(2-amino-1-benzylideneamino-4-aryl-1*H*-imidazol-5-yl)fumarate

699 **An Efficient Single Step Synthesis of Pyridazine, Pyrazolo-[5,1-*c*]-1,2,4-triazine, 1,2,4-Triazolo[5,1-*c*]-1,2,4-triazine and 1,2,4-Triazino[4,3-*a*]benzimidazole Derivatives**

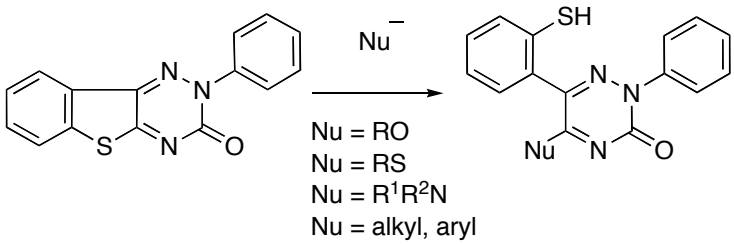
Mohamed R. Shaaban, Tamer S. Saleh, and Ahmad M. Farag*



Pyrazolo[5,1-*c*]-1,2,4-triazine Enaminone 1,2,4-Triazolo[5,1-*c*]-1,2,4-triazine Pyridazine 1,2,4-Triazino[4,3-*a*]benzimidazole

707 **The Cleavage of Heterocyclic Compounds IV. Study of the Reactivity of the [1]Benzothieno[2,3-*e*]-1,2,4-triazine System towards Nucleophilic Reagents**

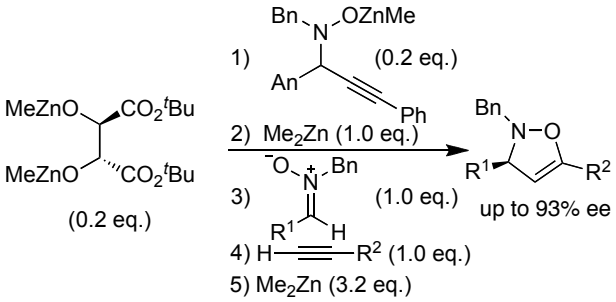
Jiří Filipčík, Jakub Stýskala,* and Jan Slouka



6-Azacytosine 1,2,4-Triazine Cleavage of Heterocyclic Compound

717 **One Pot Synthesis of Optically Active 4-Isoxazolines by Asymmetric Addition of Alkynylzinc Reagents to Nitrones Followed by Cyclization**

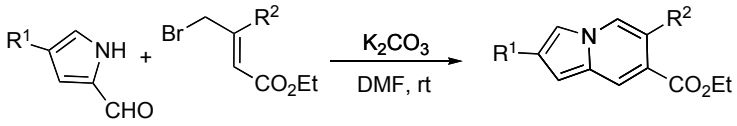
Weilin Wei, Masato Kobayashi, Yutaka Ukaji,* and Katsuhiko Inomata*



Optically Active 4-Isoxazoline One Pot Synthesis Asymmetric Addition to Nitrone Alkynylzinc Reagent Cyclization

725 **A Facile Approach to Indolizines *via* Tandem Reaction**

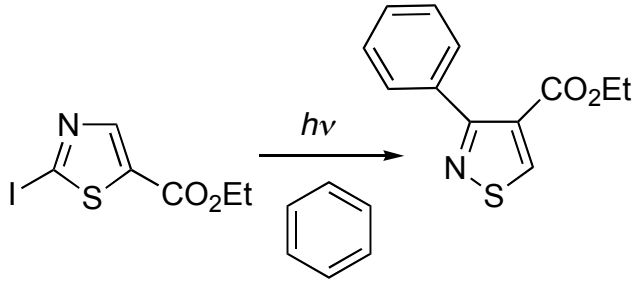
Yan-Qing Ge, Jiong Jia, He Yang, Gui-Long Zhao, Fu-Xu Zhan, and Jianwu Wang*



Cyclization *α,β*-Unsaturated Ester One-Pot Reaction Mechanism Pyrrole-2-carbaldehyde

737 **On the Photoisomerization of Thiophene and Thiazole Derivatives**

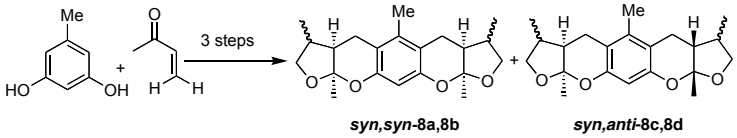
Maurizio D'Auria* and Rocco Racioppi



Thiophene Thiazole Photochemical Isomerization DFT Calculation

749 **Concise Synthesis of Xyloketal C Analogues**

Yan Huang and Yong-Cheng Lin*



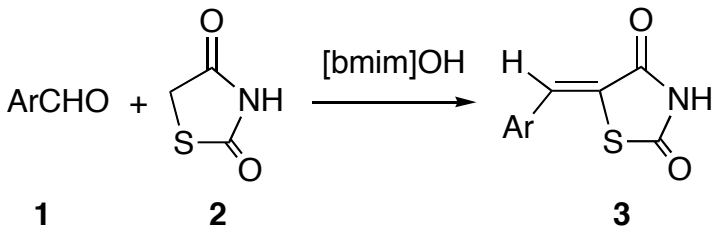
***syn,syn*-8a,8b** ***syn,anti*-8c,8d**

Xyloketal C Analogue Synthesis Ketal Formation Radical Cyclization

■ NOTES

757 **A Convenient Synthesis of 5-Arylidenethiazolidine-2,4-diones Catalyzed by Alkaline Ionic Liquid**

Yi Hu, Tao Xie, Kai-Mei Fu, Hui Kang, Ping Wei, and He Huang*

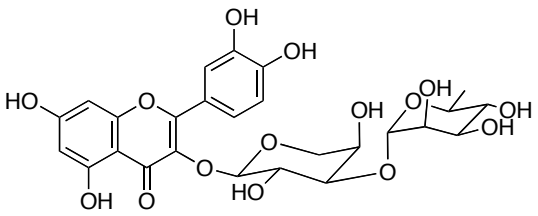


1 **2** **3**

Condensation Aromatic Aldehyde Thiazolidine-2,4-dione Ionic Liquid 5-Arylidenethiazolidine-2,4-dione

763 **Chemical Constituents from the Leaves of *Xylopia poilanei* and Their Bioactivity**

Tran Dinh Thang, Ping-Chung Kuo, Ngo Xuan Luong,* Nguyen Xuan Dung, Le Van Hac, Yao-Haur Kuo, Mei-Lin Yang, and Tian-Shung Wu*

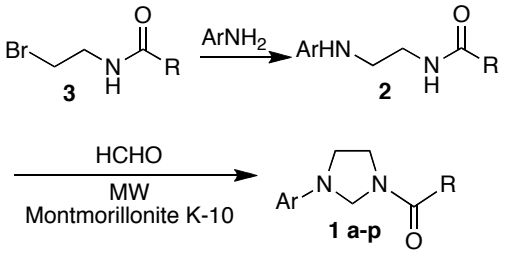


1

Annonaceae Flavonoid Alkaloid Cytotoxicity Tumor Cell Lines

771 **An Efficient Synthesis of 1-Acyl-3-arylimidazolidines Catalyzed by Montmorillonite K-10 Clay under Microwave Irradiation**

María Cristina Caterina, María Verónica Corona, Isabel Perillo, and Alejandra Salerno*



3 **2** **1 a-p**

Imidazolidine Cyclization Microwave Irradiation Montmorillonite Catalysis

■ **NEW HETEROCYCLIC NATURAL PRODUCTS**

783 **Polyketides**
785 **Aromatics**
793 **Terpenes**
807 **Steroids**
809 **Alkaloids**
818 **Miscellaneous**

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

821 Polyketides
824 Aromatics
828 Terpenes
830 Alkaloids
842 Miscellaneous

Contributors To This Issue

771 Caterina, María Cristina
679 Chatti, Saber
771 Corona, María Verónica
737 D'Auria, Maurizio
763 Dung, Nguyen Xuan
699 Farag, Ahmad M.
707 Filipčík, Jiří
757 Fu, Kai-Mei
669 Fukamachi, Shuhei
645 Fukuzawa, Shin-ichi
725 Ge, Yan-Qing
763 Hac, Le Van
555 Hagimori, Masayori
669 Horiuchi, Mai
757 Hu, Yi
757 Huang, He
749 Huang, Yan
717 Inomata, Katsuhiko
617 Ishizuka, Tadao
609 Iwayama, Taizo
725 Jia, Jiong
757 Kang, Hui
571 Kikugawa, Yasuo
669 Kobayashi, Kazuhiro
717 Kobayashi, Masato
669 Konishi, Hisatoshi
617 Kunieda, Takehisa
763 Kuo, Ping-Chung
763 Kuo, Yao-Haur
749 Lin, Yong-Cheng
763 Luong, Ngo Xuan
679 Marque, Sylvain
617 Matsunaga, Hirofumi
679 Medimagh, Raouf
691 Miyamoto, Yoshiko
555 Mizuyama, Naoko
635 Mucedda, Mauro
635 Muroni, Daniele
617 Nakajima, Makoto
657 Nakamura, Michio
617 Nakanishi, Kyoko
645 Ogata, Kenichi
609 Oikawa, Masato
771 Perillo, Isabel
679 Prim, Damien
737 Racioppi, Rocco
635 Saba, Antonio
657 Saito, Masaichi
699 Saleh, Tamer S.
771 Salerno, Alejandra
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699 Shaaban, Mohamed R.
555 Shigemitsu, Yasuhiro
645 Shimizu, Eiji
707 Slouka, Jan
707 Stýskala, Jakub
657 Tajima, Tomoyuki
763 Thang, Tran Dinh
555 Tominaga, Yoshinori
717 Ukaji, Yutaka
555 Wang, Bo-Cheng
725 Wang, Jianwu
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717 Wei, Weilin
623 Wolińska, Ewa
763 Wu, Tian-Shung
757 Xie, Tao
725 Yang, He
763 Yang, Mei-Lin
725 Zhan, Fu-Xu
725 Zhao, Gui-Long