■ PREFACES

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■ PUBLICATIONS

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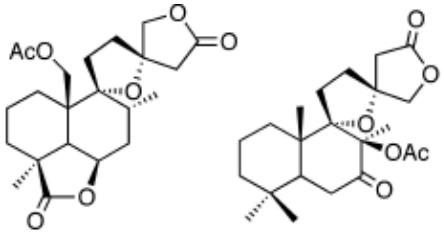


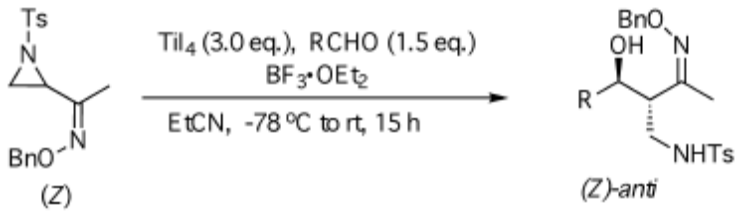
18 leonitin **57** leopersin A

Labdane *Leonotis* *Leonurus* Natural Product Biological Activity

■ COMMUNICATIONS

177 **Titanium Tetraiodide Promoted Reductive Opening of 2-(1-Benzyloxyiminoethyl)aziridines, Leading to Aza-Aldol Reaction**

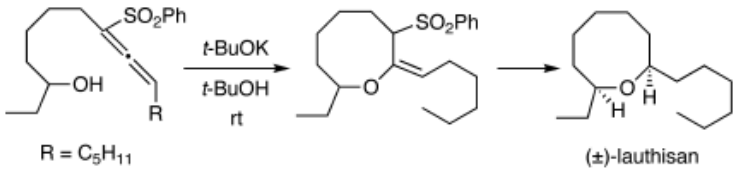
Makoto Shimizu,* Shuji Nishiura, and Iwao Hachiya



Titanium Tetraiodide 2-(1-Benzyloxyiminoethyl)aziridine Aza-Aldol Reaction Reductive Aza-enolate Formation β-Amino-β'-hydroxy Oxime

185 **Synthesis of (±)-Lauthisan**

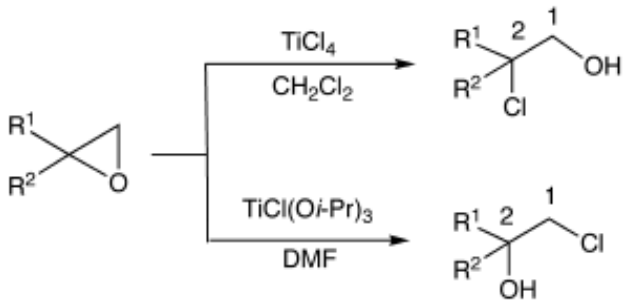
Naoki Miyakoshi, Yuki Ohgaki, Kosuke Masui, and Chisato Mukai*



Lauthisan Phenylsulfonylallene Endo-Mode Ring-Closing Reaction Oxacycle Total Synthesis

191 **An Alternative Regioselective Ring-Opening of Epoxides to Chlorohydrins Mediated by Chlorotitanium(IV) Reagents**

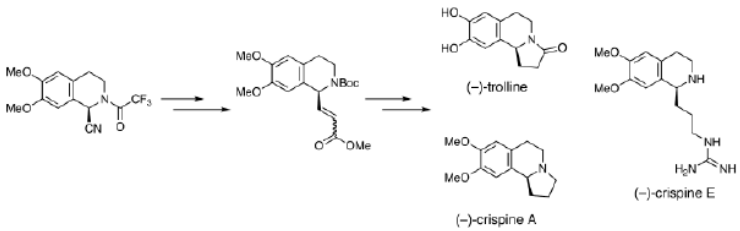
Kiyoshi Nishitani,* Kyoko Shinyama, and Koji Yamakawa



Epoxide Halohydrin Titanium Chloride Ring-Opening Reaction Solvent Effect

199 **Synthesis of (-)-Trolline, (-)-Crispine A and (-)-Crispine E**

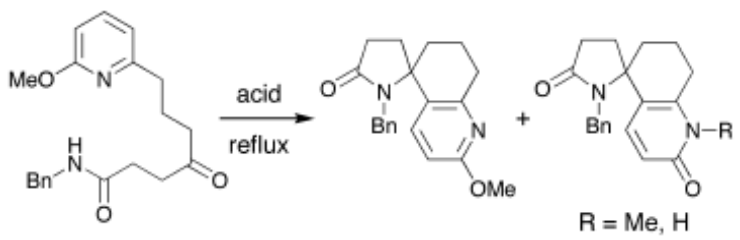
Takuya Kanemitsu, Yuki Yamashita, Kazuhiro Nagata, and Takashi Itoh*



Organocatalyst Horner-Wadsworth-Emmons Reaction Isoquinoline Alkaloid Total Synthesis Crispine

205 **Spirocyclization of an *N*-Acyliminium Ion with Substituted Pyridine: Synthesis of Tricyclic Spirolactams Possessing Pyridine or Pyridone Nucleus**

Hideki Abe, Kei-ichi Takaya, Kazuhiro Watanabe, Sakae Aoyagi, Chihiro Kibayashi, and Tadashi Katoh*

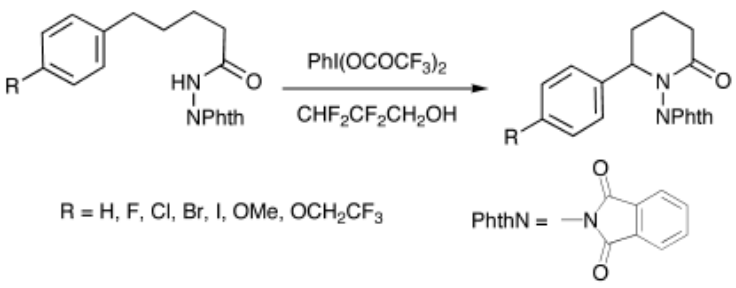


Spirocyclization *N*-Acyliminium Ion Substituted Pyridine Spirolactam Brønsted Acid

■ PAPERS

273 **Intramolecular Benzylic Cyclization with Nitrenium Ions Generated from *N*-Acylaminophthalimides Using Phenyliodine(III) Bis(trifluoroacetate): Formation of Phenyl Substituted Lactams**

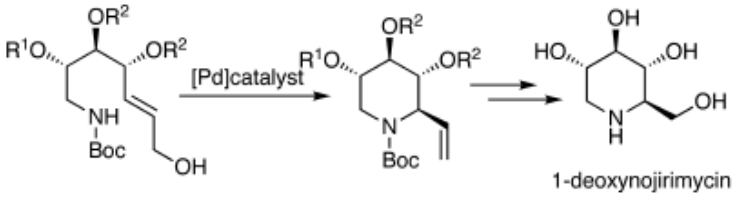
Akira Nagashima, Takeshi Sakamoto, and Yasuo Kikugawa*



Electron Deficient Nitrogen *N*-(Phenylpentanamido)phthalimide 2,2,3,3-Tetrafluoro-1-propanol Intramolecular Aromatic Substitution

283 **Palladium(II)-Catalyzed Cyclization of Urethanes and Its Application to a Total Synthesis of 1-Deoxynojirimycin**

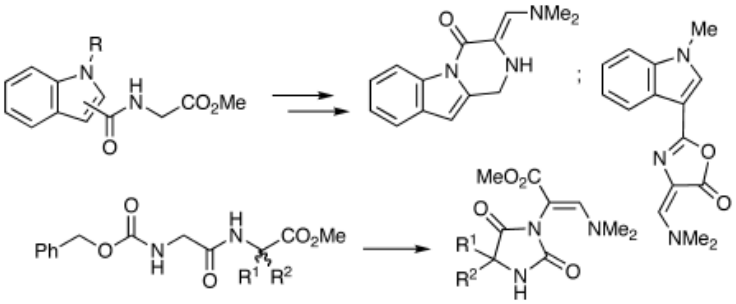
Hajime Yokoyama, Hisatake Kobayashi, Masahiro Miyazawa, Seiji Yamaguchi, and Yoshiro Hirai*



Palladium(II) Catalyst Cyclization 1-Deoxynojirimycin Azasugar

293 **Synthesis and Transformation of *N,N*-Dimethylamino-methylidene Derivatives of Indolylglycines and Some Other Dipeptides**

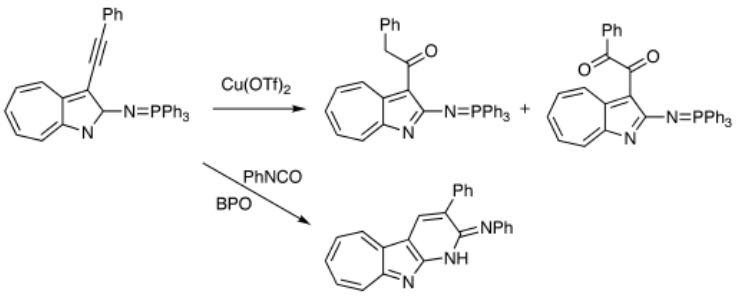
Renata Jakše, Ljubo Golič, Anton Meden, Uroš Grošelj, Jurij Svete, and Branko Stanovnik*



Indolylglycine Dipeptide Dimethylaminomethylidene Derivative Hydantoin

309 **Synthesis and Reactions of 3-Ethynyl-2-(triphenyl-phosphoimino)-1-azaazulenes**

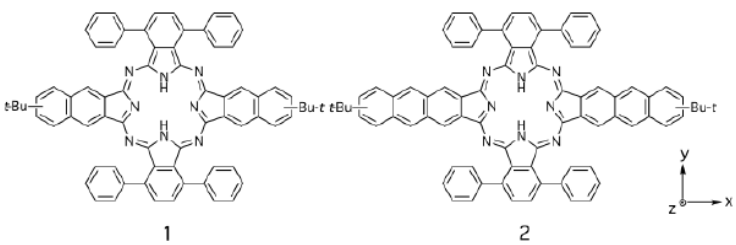
Noritaka Abe,* Kentaro Nagamatsu, Tomoyuki Ariyoshi, Hiroyuki Fujii, Yoshiko Murakami, Shoji Tagashira,* and Akikazu Kakehi



Ethynyl-1-azaazulene Phosphoimino-1-azaazulene Oxidation Cyclization X-Ray Structure Analysis

321 **Electronic Structures and Molecular Orbial Calculations of Oppositely Dinaphthalo- and Dianthraco-Substituted D2h Type Metal-Free Phthalocyanine Congeners**

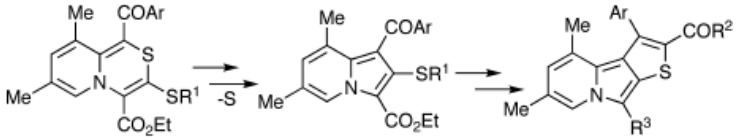
Osamu Matsushita, Atsuya Muranaka, Yayoi Kobayashi, and Nagao Kobayashi*



Phthalocyanine Low-Symmetry Tautomerism Absorption Spectroscopy *ab initio* Calculation

521 **First Ring Contraction-Desulfurization of 1-(Arylcarbonyl)-pyrido[2,1-*c*]-1,4-thiazines to 1-(Arylcarbonyl)indolizines and Its Application to 3-Arylthieno[3,2-*a*]indolizine Synthesis**

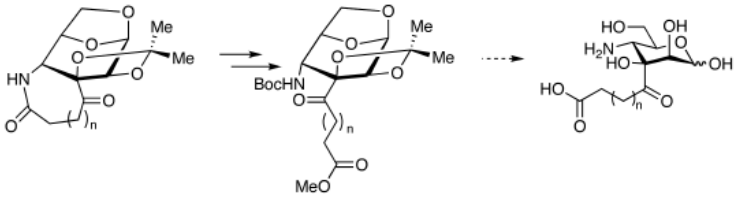
Akikazu Kakehi,* Hiroyuki Suga, Yuichi Goto, and Nobuhiro Yamaguchi



Desulfurization Indolizine Thieno[3,2-*a*]indolizine Synthesis X-Ray Analysis

533 **Reactions of Glycosan-Annelated Oxolactams**

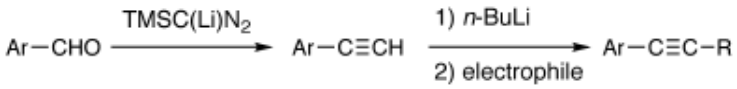
Swantje Thiering, Joachim Thiem,* and Jürgen Kopf



1,6-Anhydrosugar Azepanedione Azocanedione 3-Dehydro Branched-Chain Hexose

545 **Facile One-Pot Synthesis of Functionalized Acetylenes from Aryl and Heteroaryl Aldehydes Using Lithium Trimethylsilyldiazomethane**

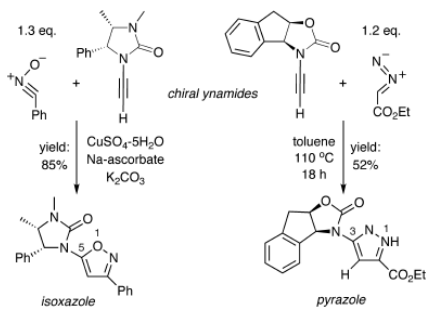
Yoshiyuki Hari, Koji Date, and Toyohiko Aoyama*



Acetylene Aryl Aldehyde Heteroaryl Aldehyde Lithium Trimethylsilyldiazomethane One-Pot Synthesis

553 **Synthesis of Amide-Substituted Isoxazoles and Pyrazoles via Regioselective [3+2] Cycloadditions of Terminally Unsubstituted Ynamides**

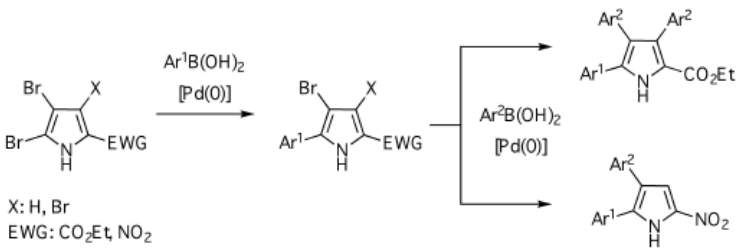
Hongyan Li, Lingfeng You, Xuejun Zhang, Whitney L. Johnson, Ruth Figueroa, and Richard P. Hsung*



Ynamide Regioselective Nitrile Oxide Cycloaddition Diazoacetate [3+2] Cycloaddition Isoxazole Pyrazole

569 **Di- and Triarylsubstituted Pyrroles by Sequential Regioselective Cross-Coupling Reactions**

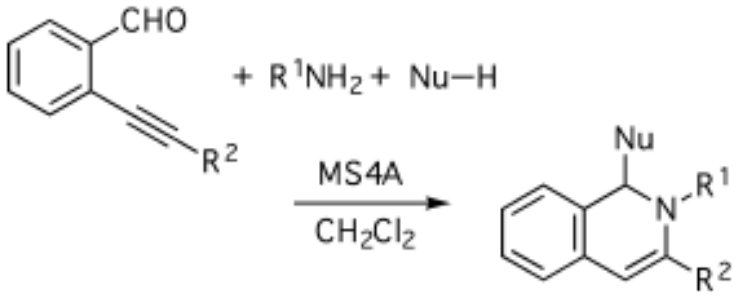
Sven Schröter and Thorsten Bach*



Cross-Coupling Reaction Pyrrole Palladium Regioselectivity Heterocycle

649 **A Facile Synthesis of 1,2-Dihydroisoquinolines by Three-Component Reaction**

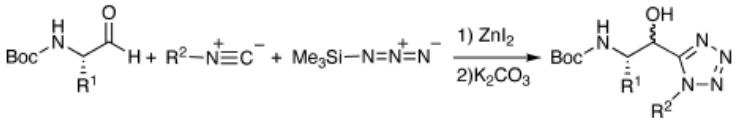
Kentaro Iso, Salprima Yudha S., Menggenbateer, and Naoki Asao*



Isoquinoline Three-Component Reaction Catalyst-Free Condition Self-Construction Pronucleophile

661 **Zinc Iodide as an Efficient Catalyst in the TMS-Azide Modified Passerini Reaction**

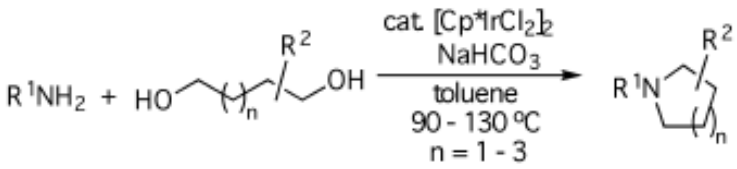
Eva S. Schremmer and Klaus T. Wanner*



1,5-Disubstituted Tetrazole Passerini Reaction Lewis Acid Catalysis Multicomponent Reaction β-Amino Alcohol

673 **An Efficient Synthesis of Nitrogen Heterocycles by Cp*Ir-Catalyzed *N*-Cycloalkylation of Primary Amines with Diols**

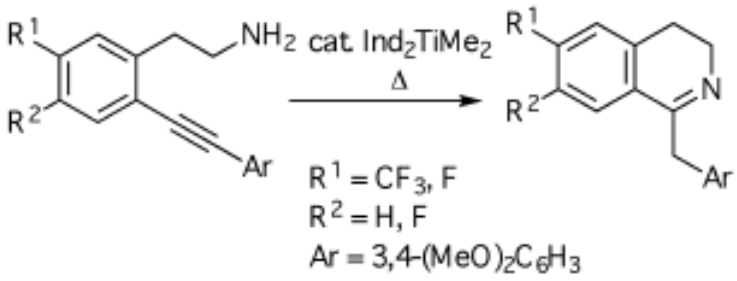
Ken-ichi Fujita, Takeshi Fujii, Atsuo Komatsubara, Youichiro Enoki, and Ryohei Yamaguchi*



Cyclization Iridium Catalyst Diol Atom-Economical Reaction Cyclic Amine

683 **Synthesis of Benzylisoquinoline Derivatives Possessing Electron-Withdrawing Substituents on the Benzene Ring of the Isoquinoline Skeleton**

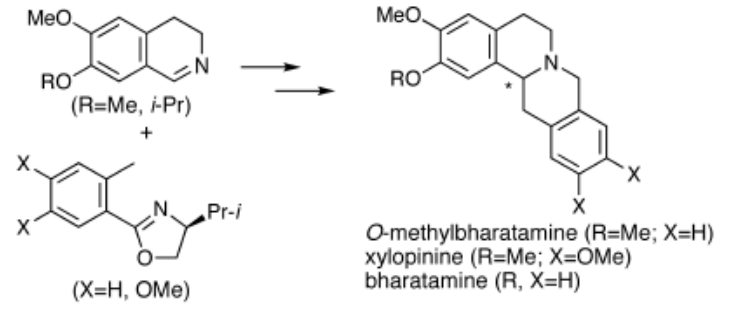
René Severin, Didin Mujahidin, Jessica Reimer, and Sven Doye*



Benzylisoquinoline Homogeneous Catalysis Hydroamination Isoquinoline Sonogashira Coupling

701 **Synthesis of Both Enantiomers of Protoberberines via Laterally Lithiated (S)-4-Isopropyl-2-(o-tolyl)oxazolines**

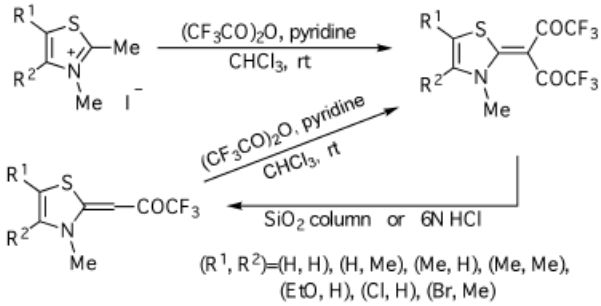
Tsutomu Fukuda and Masatomo Iwao*



Protoberberine Oxazoline Lateral Lithiation Xylopinine Bharatamine

721 **A Facile and Convenient Synthetic Method for 2-Bis-(trifluoroacetyl)methylene- and 2-Trifluoroacetyl-methylene-2,3-dihydro-3-methylthiazoles**

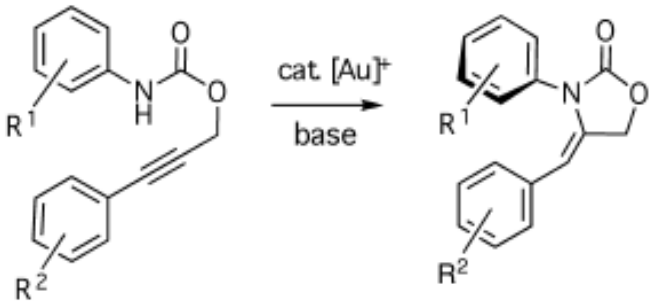
Norio Ota, Etsuji Okada,* Yasuhiro Kamitori, Dai Shibata, and Maurice Médebielle



Dihydrothiazole Thiazolium Iodide Trifluoroacetylation Acid-Catalyzed Deacylation Polarization

731 **Synthesis of 4-Benzyliden-2-oxazolidinone Derivatives *via* Gold-Catalyzed Intramolecular Hydroamination**

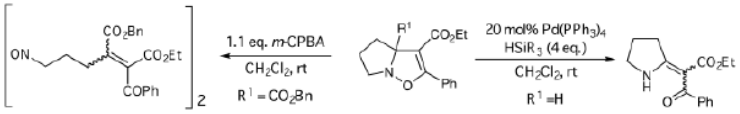
Stefanie Ritter, Kristina Hackelöer, and Hans-Günther Schmalz*



Gold Catalysis Alkyne

743 **Synthesis of Nitrosoalkyl- and Amino-Substituted α,β-Unsaturated Ketones by Cleavage of the N-O-Bond of Bicyclic D_4-Isoxazolines**

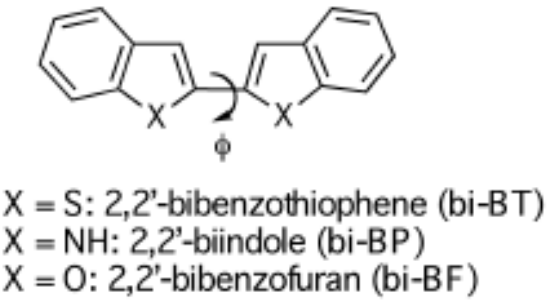
Markku Lager, Paul Dietrich, Dirk Weinrich, and Karola Rück-Braun*



Isoxazoline Nitroso Compound *m*-CPBA Pd-Catalysis Enone

763 **Twist Angles and Torsional Potentials of 2,2'-Bibenzo-thiophene, 2,2'-Biindole, and 2,2'-Bibenzofuran**

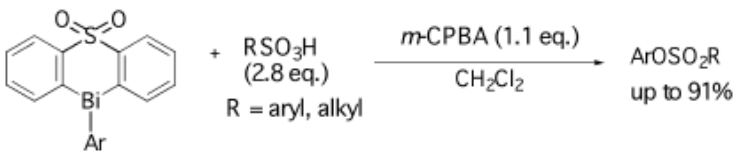
Naoto Hayashi* and Hiroyuki Higuchi*



ab initio Calculation Biheteroaryl Torsional Potential Twist Angle

771 **A New Preparative Method of Aryl Sulfonate Esters by Using Cyclic Organobismuth Reagents**

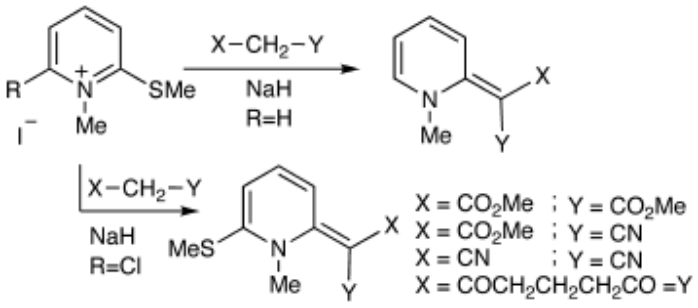
Naoto Sakurai and Teruaki Mukaiyama*



Organobismuth Reagent Aryl Sulfonate Ester Ligand Coupling Oxidation Sulfonic Acid

791 **Reaction of 2-Alkylthiopyridinium Salts with Active Methylene Compounds**

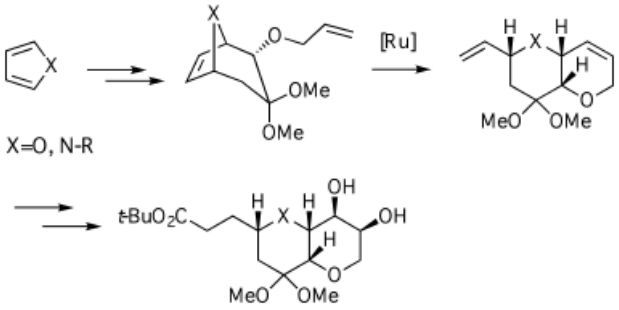
Masato Hoshino, Tsuyoshi Taguchi, Hiroto Nakano, Hiroshi Tomisawa, Hisao Matsuzaki, and Reiko Fujita*



2-Alkylthiopyridinium Salt 6-Chloro-2-methylthiopyridinium Salt Chemoselective Regioselective Active Methylene Compound

803 **Synthesis of *cis*-Fused Pyranopyran and Pyranopyridine Templates by Ring Rearrangement Metathesis**

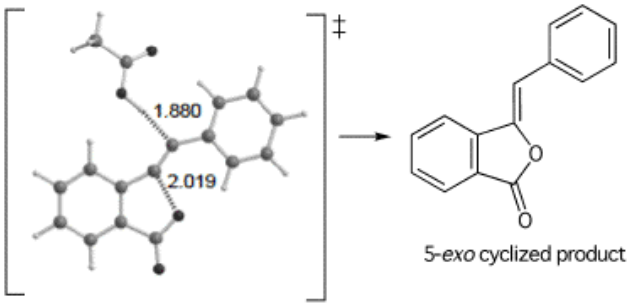
Alexander Niethe and Siegfried Blechert*



Pyranopyran Pyranopyridine Metathesis Template Tropane

819 **Theoretical Studies of 5-exo Selective Intramolecular Cyclization of *O*-Alkynylbenzoic Acid Catalyzed by Organic Base**

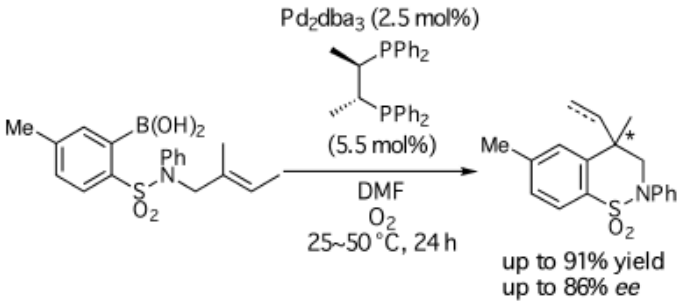
Masahiro Terada,* Chikashi Kanazawa, and Masahiro Yamanaka*



Phthalide Intramolecular Cyclization Density Functional Theory Transition State Natural Population Analysis

827 **Pd(II)-Catalyzed Enantioselective Intramolecular Heck-Type Reaction to Construct Chiral Sulfonamide Rings**

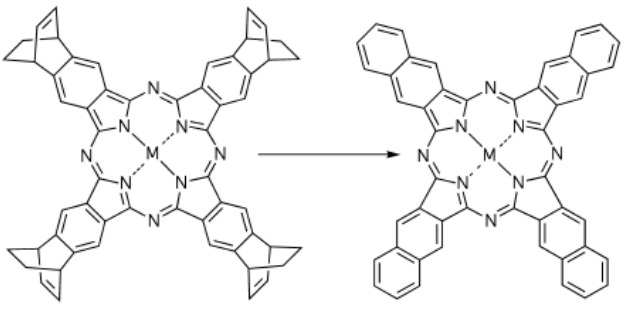
Katsuhiro Akiyama and Koichi Mikami*



Heck-Type Reaction Palladium Sulfonylamine Ring Chiraphos Asymmetric

835 **Synthesis of Phthalocyanine Fused with Bicyclo[2.2.2]-octadienes and Thermal Conversion into Naphthalo-cyanine**

Taiji Akiyama, Atsuko Hirao, Tetsuo Okujima, Hiroko Yamada, Hidemitsu Uno, and Noboru Ono*

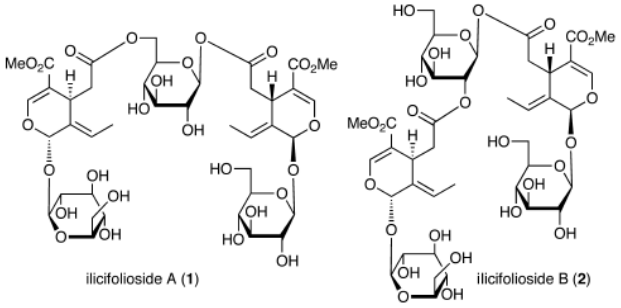


Phthalocyanine Retro-Diels-Alder Reaction Naphthalocyanine Pigment Dye

■ NOTES

937 **Ilicifoliosides A and B, Bis-Secoiridoid Glycosides from *Osmanthus ilicifolius***

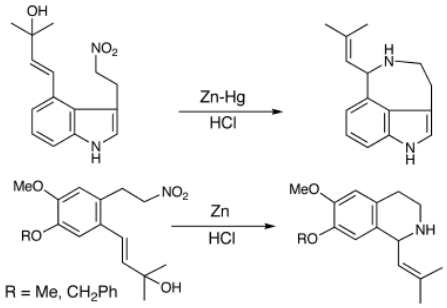
Shigeaki Sakamoto, Koichi Machida, and Masao Kikuchi*



Osmanthus ilicifolius Oleaceae Bis-Secoiridoid Glycoside Ilicifolioside

943 **A Novel Reductive Amino-Cyclization Method and Its Application for the Total Syntheses of (±)-Aurantioclavine and (±)-Lophocerine**

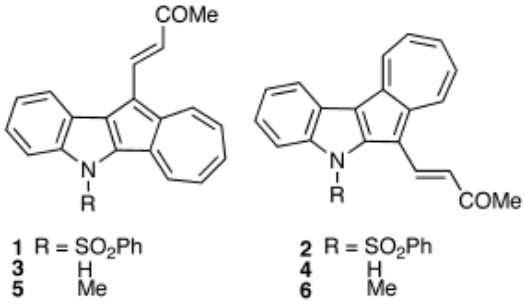
Masanori Somei* and Fumio Yamada



(±)-Aurantioclavine (±)-Lophocerine Ergot Alkaloid Cactus Alkaloid Azacycloalkane

951 **Synthesis of 4-(Azuleno[b]indolyl)-3-buten-2-ones by Intramolecular Tropylium Ion-Mediated Furan Ring-Unravelled Reaction**

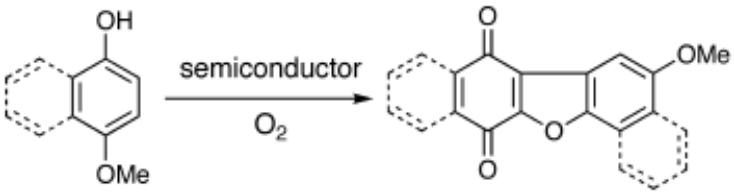
Mitsuko Nishiura, Ikuko Ueda, and Kimiaki Yamamura*



4-(Azuleno[*b*]indolyl)-3-buten-2-one Indole-Fused Azulene Furan Ring-Opening Reaction Azulenoid α,β-Unsaturated Ketone

961 **One-Pot Synthesis of Dibenzofuran-1,4-diones**

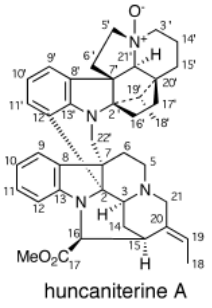
Tetsuya Takeya,* Hiromu Kondo, Kazuho Tomita, Iwao Okamoto, Nobuyoshi Morita, and Osamu Tamura*



Dibenzofuran-1,4-dione Oxidative Dimerization Oxidative Cyclization Semiconductor Molecular Oxygen

969 **Huncaniterine A, a New Bisindole Alkaloid from *Hunteria zeylanica***

Khalit Mohamad, Tomoko Suzuki, Yuki Baba, Kazumasa Zaima, Yosuke Matsuno, Yusuke Hirasawa, Mat Ropi Mukhtar, Khalijah Awang, A. Hamid A. Hadi, and Hiroshi Morita*


huncaniterine A

Hunteria zeylanica Huncariterine A Bisindole Alkaloid Vasorelaxant Activity