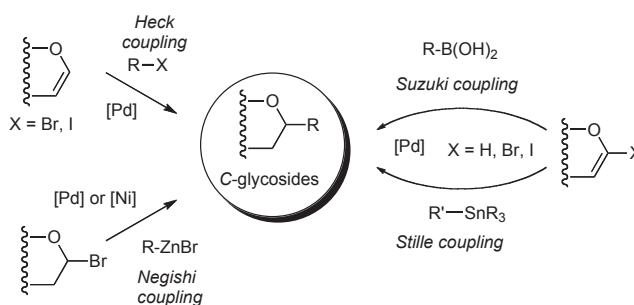


■ REVIEWS

791 Cross-Coupling Reactions for the Synthesis of C-Glycosides and Related Compounds

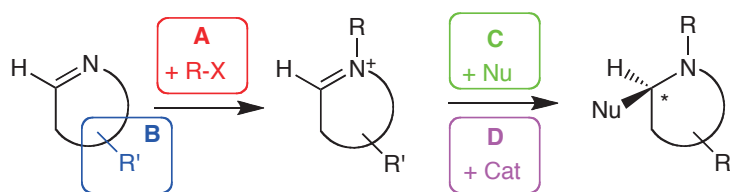
Pedro Merino,* Tomas Tejero, Eduardo Marca, Fernando Gomollón-Bel, Ignacio Delso, and Rosa Matute



Cross-Coupling *c*-Glycoside *c*-Nucleoside Glycal Palladium

821 Asymmetric Reactions of a Series of Aromatic Azines with Nucleophiles

Ilya N. Egorov,* Tatyana A. Tseitler, Grigory V. Zyryanov, Vladimir L. Rusinov, and Oleg N. Chupakhin

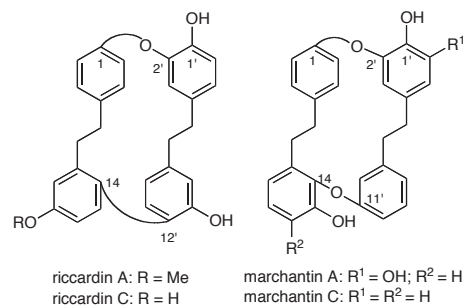


four sources of asymmetric induction

Nucleophilic Addition Reaction Asymmetric Synthesis Diastereoselective Synthesis Azine

891 Distribution of Cyclic and Acyclic Bis-bibenzyls in the Marchantiophyta (Liverworts), Ferns and Higher Plants and Their Biological Activities, Biosynthesis, and Total Synthesis

Yoshinori Asakawa* and Agnieszka Ludwiczuk

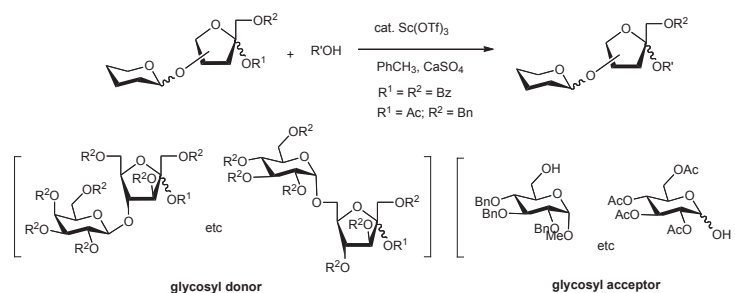


Liverwort Bis-bibenzyl Biological Activity Biosynthesis Total Synthesis

■ COMMUNICATIONS

919 Scandium Triflate-Catalyzed D-Fructofuranosylation Reactions Using Disaccharide Units

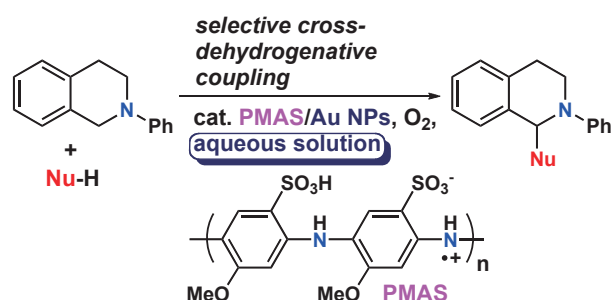
Takashi Yamanoi,* Noriko Misawa, Sho Matsuda, Mikio Watanabe, and Yoshiki Oda



Fructofuranosylation Reaction Disaccharide Donor Fructofuranoside Glycosylation Sucrose Derivative

927 Selective Cross-Dehydrogenative Coupling of *N*-Phenyltetrahydroisoquinolines in Aqueous Media Using Poly(Aniline Sulfonic Acid)/Gold Nanoparticles

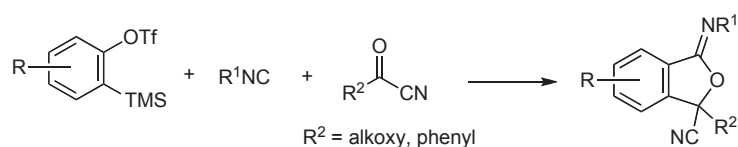
Toru Amaya, Tsubasa Ito, and Toshikazu Hirao*



Cross-Dehydrogenative Coupling Polyaniline Gold Nanoparticle Sustainable Chemistry Poly(2-methoxyaniline-5-sulfonic Acid)

933 A Novel Three-Component Coupling Reaction of Arynes, Isocyanides, and Cyanoformates: A Straightforward Access to Cyano-Substituted Iminoisobenzofurans

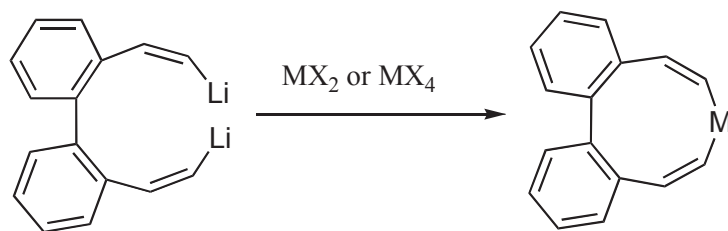
Jing Li, Shintaro Noyori, Masayuki Iwasaki, Kiyohiko Nakajima, and Yasushi Nishihara*



Aryne Isocyanide Cyanoformate Three-Component Coupling Oxygen Heterocycle

941 Syntheses of Novel Dibenzo[*d,f*]heteronins Incorporating Group 15 and 16 Heavier Elements

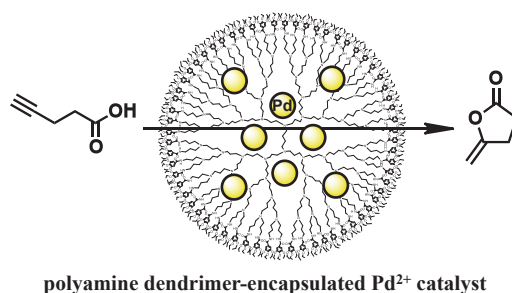
Shuji Yasuike,* Satoshi Tsukada, Naoki Kakusawa, Takashi Tsuchiya, and Jyoji Kurita*



Dibenzo[*d,f*]heteronin 1,8-Dilithium Intermediate Nine-Membered Ring Group 15 and 16 Heavier Elements Nonplanar Conformation

947 Intramolecular Cyclization of γ -Acetylenic Acids Using Dendrimer-Encapsulated Pd²⁺ Catalysts

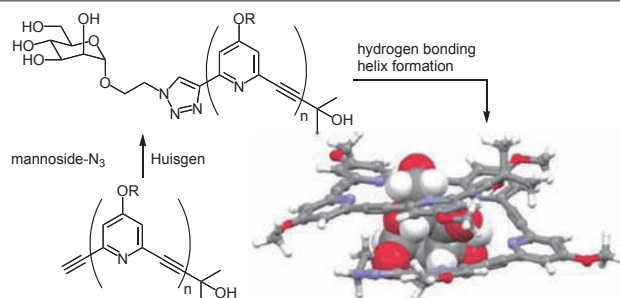
Zen Maeno, Takato Mitsudome, Tomoo Mizugaki, Koichiro Jitsukawa, and Kiyotomi Kaneda*



γ -Alkylidene- γ -butyrolactone Dendrimer Intramolecular Cyclization γ -Acetylenic Acid

955 Improvement of Helix-Forming Ability of Mannoside-Linked Ethynylpyridine Oligomers Constructed by Convergent Synthesis

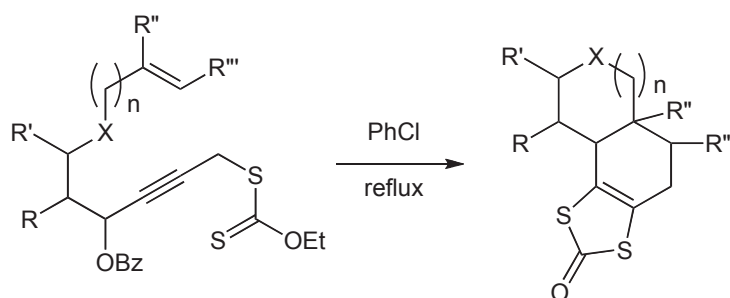
Hajime Abe,* Hiroki Makida, and Masahiko Inouye*



Ethynylpyridine Mannoside Huisgen Reaction Helix Formation Hydrogen Bonding

965 Rapid Assembly of Polycyclic Structures via Sigmatropic Rearrangement of *S*-Propargyl Xanthates

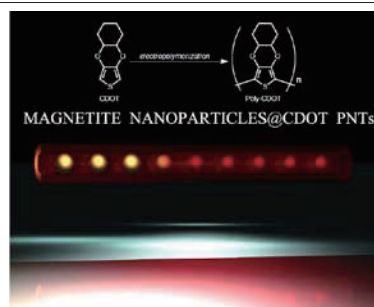
Ryan M. Harrington, David Wright, and Samir Z. Zard*



Intramolecular Diels-Alder Reaction Cycloaddition Rigid Diene Dithiolanone

973 A New Magnetic Nanopeapod: Encapsulation of Magnetite Nanoparticles in Polythiophene Nanotubes

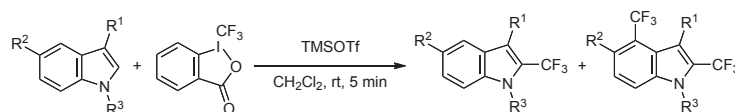
Tsukasa Nakahodo, Katsuya Yamamoto, and Hisashi Fujihara*



Magnetic Nanopeapod Magnetite Nanoparticle Polythiophene Nanotube

979 Rapid Trifluoromethylation of Indole Derivatives

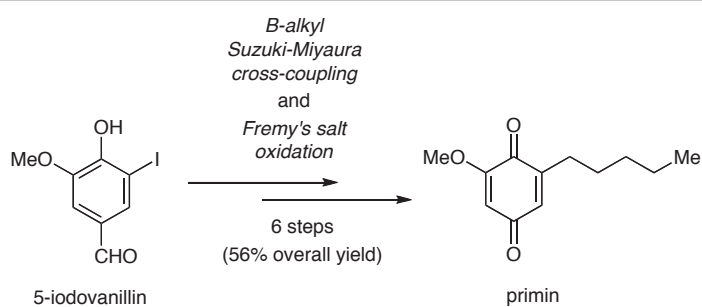
Ayako Miyazaki, Ryo Shimizu, Hiromichi Egami, and Mikiko Sodeoka*



Trifluoromethylation Indole Togni Reagent Trimethylsilyl Triflate Di-trifluoromethylation

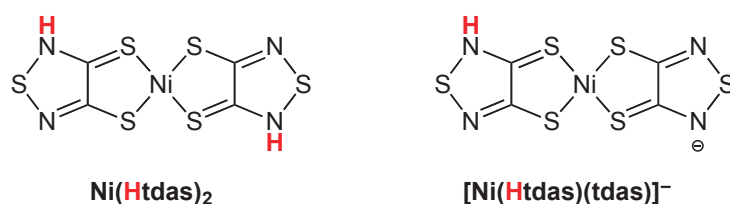
985 A New Entry to the Synthesis of Primin via a *B*-Alkyl Suzuki–Miyaura Cross-Coupling Reaction

Kazuhiro Watanabe, Tomohiro Sugizaki, Yumi Tozawa, and Tadashi Katoh*


 Primin *B*-Alkyl Suzuki–Miyaura Cross-Coupling Frey's Salt 5-iodovanillin 1,4-Benzoquinone Anticancer Agent

991 Isolation and First X-Ray Structures of Nickel Complexes of 1,2,5-Thiadiazole-3,4-dithiolate (TDAS) in Protonated Forms

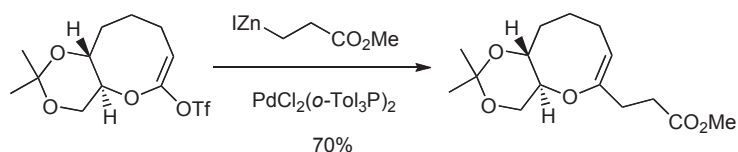
Kouzou Matsumoto,* Maho Nishizawa, Yasukazu Hirao, Hiroyuki Kurata, and Takashi Kubo*



Tdas 1,2,5-Thiadiazole-3,4-dithiolate Nickel Complex

997 Synthesis of the E Ring Segment of Ciguatoxin CTX3C via the Negishi Coupling of Cyclic Ketene Acetal Triflate

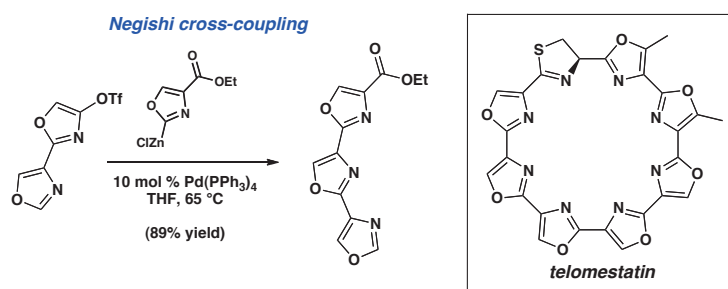
Kengo Shiroma, Hiroyoshi Takamura, and Isao Kadota*



Ciguatoxin CTX3C Marine Polycyclic Ether Negishi Coupling Ketene Acetal Triflate

1003 Rapid and Convergent Synthesis of a 2,4'-Linked Tri-Oxazole in an Approach to Poly-Oxazoles

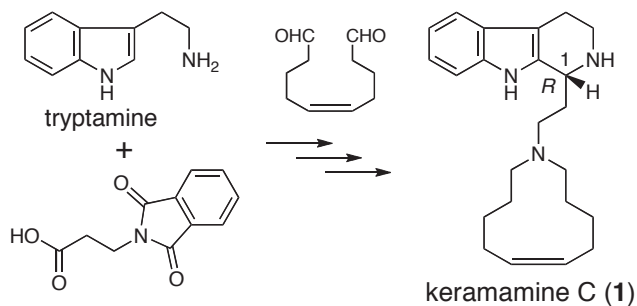
Daniel D. Caspi, Haiming Zhang, Scott C. Virgil, Fabian M. Piller, and Brian M. Stoltz*



Telomestatin Cross-Coupling Reaction Oxazole Telomerase Inhibitor

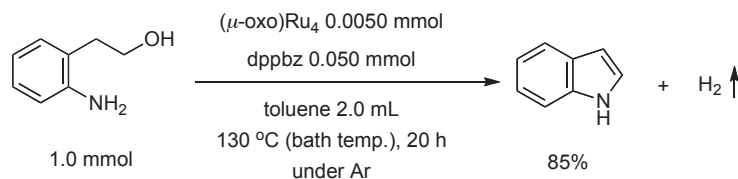
1009 First Total Synthesis and Absolute Configuration of Keramamine C

Haruaki Ishiyama, Yuta Mori, Takashi Matsumoto, and Jun'ichi Kobayashi*


 Total Synthesis Keramamine C *Amphimedon* sp. Absolute Configuration

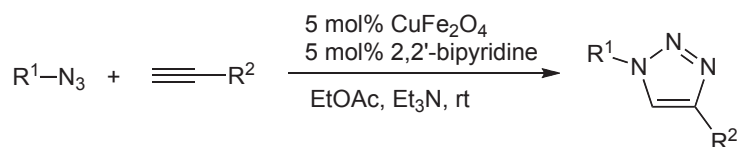
1015 Dehydrogenative *N*-Heterocyclization of 2-(2-Aminoaryl)-ethyl Alcohols to Indole Derivatives Catalyzed by (μ -Oxo)-tetraruthenium Cluster/1,2-Bis(diphenylphosphino)-benzene

Teruyuki Kondo,* Takashi Kanda, Daisuke Takagi, Kenji Wada, Yu Kimura, and Akio Toshimitsu


 Ruthenium Catalyst Indole Synthesis Dehydrogenative *N*-Heterocyclization

1023 Ligand Modified CuFe₂O₄ Nanoparticles as Magnetically Recoverable and Reusable Catalyst for Azide-Alkyne Click Condensation

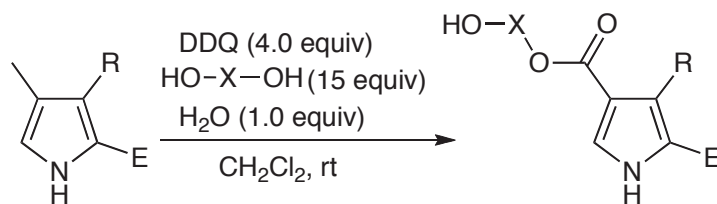
Shingo Ishikawa, Reuben Hudson, Audrey Moores,* and Chao-Jun Li*



Click Reaction Magnetic Nanoparticle Copper Ferrite Nanoparticle Alkyne Azide

1031 Direct Oxidation of 4-Methylpyrrole-2-carboxylates with DDQ in the Presence of a Glycol

Kana Takahashi, Ryoji Iwamoto, Ryo Sakata, Takahiro Soeta, Katsuhiko Inomata, and Yutaka Ukaji*



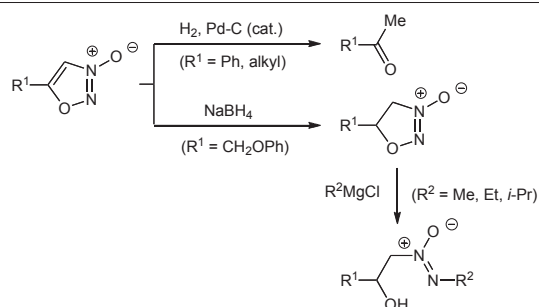
E = CO₂^tBu

HO-X-OH = HOCH₂C(R)₂CH₂OH (R = H or Me)

Oxidation with DDQ 4-Methylpyrrole-2-carboxylate Glycol Ester Methylarene

1039 Reaction of 1,2,3-Oxadiazole 3-Oxides

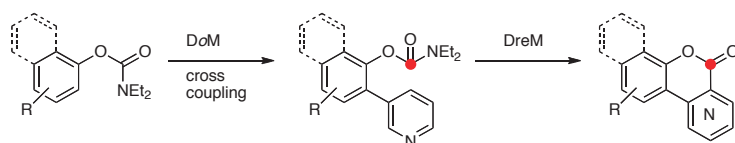
Takumichi Sugihara,* Akira Murakawa, Chiemi Sawanaka, Megumi Seki, Natsuki Iio, Ayano Iizuka, Takuya Oohora, and Shinobu Honzawa



1,2,3-Oxadiazole 3-Oxide Diazene *N*-Oxide Sodium Borohydride Catalytic Hydrogenation Grignard Reagent

1045 Combined Directed Metalation – Suzuki-Miyaura Cross Coupling Strategies. Synthesis of Isomeric Chromenopyridinones and Related Annulated Analogues

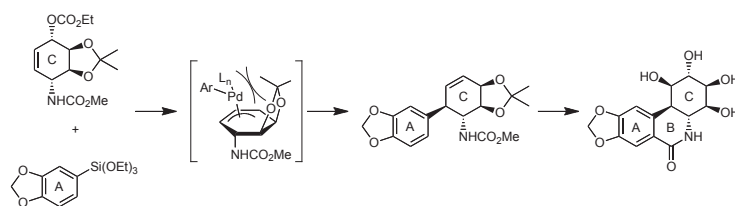
Ricarda E. Miller,* Roman Sommer, Hope Fan, Ulrich Groth, and Victor Snieckus*



Combined Directed Metalation Suzuki-Miyaura Cross-Coupling Chromenopyridinone

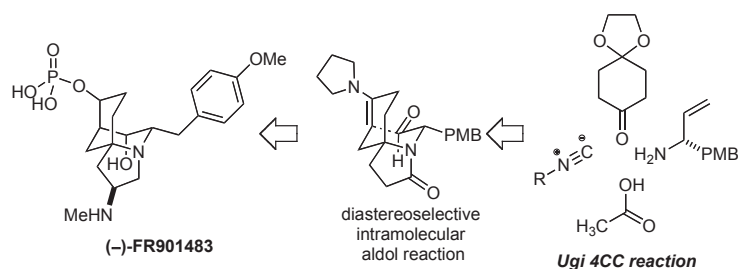
■ PAPERS
1055 Advances in Siloxane-Based Coupling Reactions: Application of Palladium-Mediated Allyl-Aryl Coupling to the Synthesis of Pancratistatin Derivatives. The Formal Total Synthesis of (±)-7-Deoxypancratistatin

Krupa H. Shukla and Philip DeShong*



Palladium Siloxane Allylic Coupling 7-Deoxypancratistatin

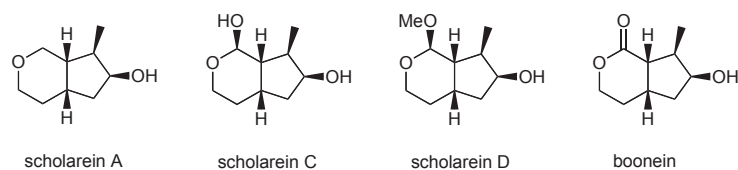
1071 Stereocontrolled Total Synthesis of (-)-FR901483

 Shigeru Ieda, Akitaka Masuda, Mami Kariyama,
 Toshiyuki Wakimoto, Tomohiro Asakawa,
 Tohru Fukuyama,* and Toshiyuki Kan*


(-)-FR901483 Ugi 4CC Reaction Diastereoselective Intramolecular Aldol Reaction Immunosuppressant

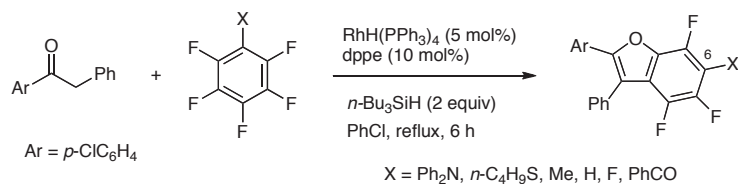
1093 The First Total Syntheses of Scholareins A, C, and D Employing 2nd Generation Palladium-Catalyzed Cycloalkenylation

Yasufumi Kawai, Megumi Saeki, and Masahiro Toyota*

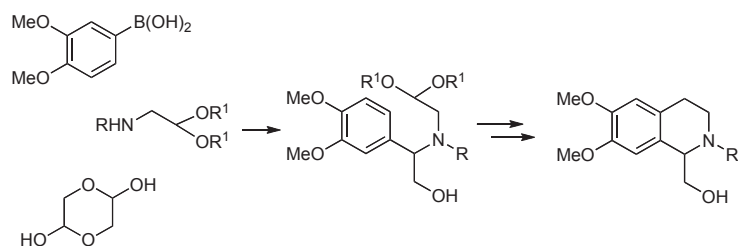


Scholareins A, C, D Boonein Iridoid Cycloalkenylation Palladium Catalyst

1103 Rhodium-Catalyzed Synthesis of Benzofurans by the Reaction of Ketones and *o*-Difluorobenzenes

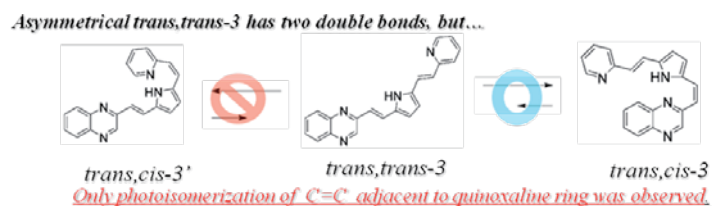
 Mieko Arisawa,* Soichiro Nakane, Manabu Kuwajima,
 and Masahiko Yamaguchi*

 Benzofuran *o*-Difluorobenzene Polyfluorinated Benzofuran Rhodium-Catalyzed Reaction α -Arylation

1119 Synthesis of Calycotomine and *N*-Methylcalycotomine Using a Petasis Reaction — Pomeranz-Fritsch-Bobbitt Cyclization Sequence

 Maria Chrzanowska, Agnieszka Grajewska, and
 Maria D. Rozwadowska*

 Petasis Reaction Pomeranz-Fritsch-Bobbitt Cyclization Tetrahydroisoquinoline Alkaloid Calycotomine *N*-Methylcalycotomine

1129 Hydrogen Bonding Induced Highly Selective Isomerization of an Olefin Having Heteroaromatic Rings

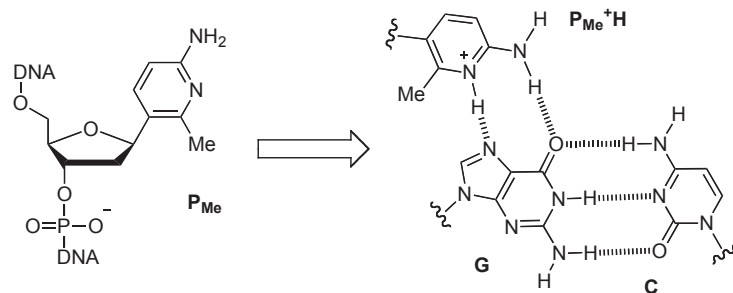
Takuya Kobayashi and Tatsuo Arai*



Photoisomerization Heteroaromatic Ring C=C Double Bond Intramolecular Hydrogen Bonding Pyrrolylethene

1135 A 2-Amino-6-methylpyridin-5-yl Nucleobase for GC Base Pair Recognition in the Parallel Triplex DNA

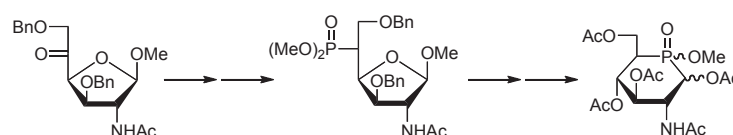
Motoi Nakahara, Yoshiyuki Hari,* and Satoshi Obika



2-Aminopyridine DNA Recognition Nucleobase Oligonucleotide Triplex DNA

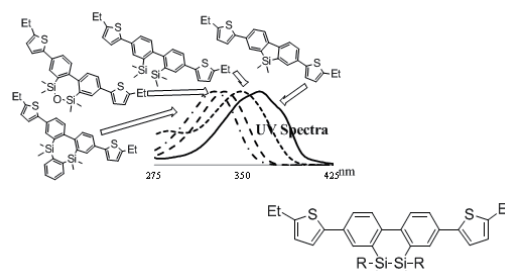
1147 Synthesis of 2-Acetamido-2,5-dideoxy-5-phosphoryl-D-glucopyranose Derivatives: New Phospha-Sugar Analogs of *N*-Acetyl-D-glucosamine

Tadashi Hanaya,* Masahiro Kawaguchi, Masakazu Sumi, Kazuo Makino, Keiko Tsukada, and Hiroshi Yamamoto


 Phospha-Sugar *N*-Acetyl-D-glucosamine Phosphoryl Group C-P Bond Formation Hetero Sugar

1177 Synthesis and Reactions of Silicon-Bridged Dithienylbiphenyls. Fine Tuning of Electronic States by Bridging Silicon Chain Lengths

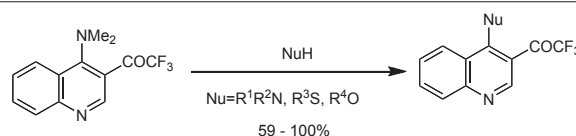
Joji Ohshita,* Kazuya Murakami, Daiki Tanaka, and Hiroto Yoshida



Conjugated Polymer Palladium-Catalyzed Reaction Organosilicon Polymer

1177 Simple Syntheses of 3-Trifluoroacetyl-4-quinolylamines, Sulfides, and Ethers Starting from *N,N*-Dimethyl-4-quinolylamine

Etsuji Okada,* Mizuki Hatakenaka, Takushi Sakaemura, Naofumi Shimomura, and Takuro Ashida

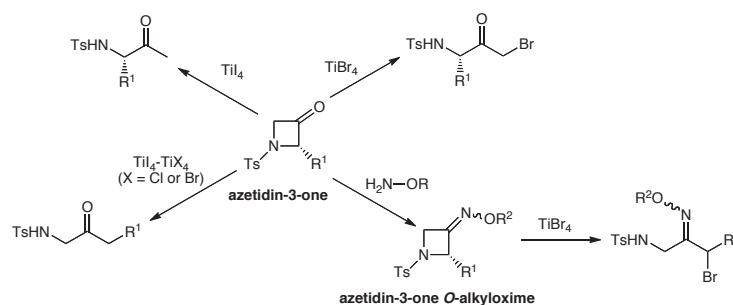


$(R^1, R^2) = (H, H), (Me, H), (Et, H), (PhCH_2, H), (i-Pr, H),$
 $(t-Bu, H), (CH_2=CHCH_2, H), (CH_2=CHCH_2, H),$
 $(-CH_2)_4-, (p-MeOC_6H_4, H), (EtO_2CCH_2, H)$
 $R^3 = PhCH_2, n-Bu, p-MeOC_6H_4, p-MeC_6H_4,$
 $Ph, p-ClC_6H_4, p-NO_2C_6H_4$
 $R^4 = n-Pr, n-Bu, PhCH_2CH_2, PhOCH_2CH_2,$
 $p-MeOC_6H_4, p-MeC_6H_4$

Quinolin-4-amine Antimalarial Fluorine-Containing Heterocycle Aromatic Nucleophilic Substitution Trifluoroacetyl Group

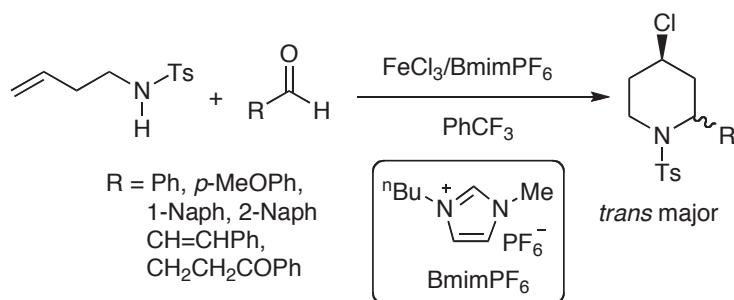
1187 Synthesis of α -Amino Ketones and *O*-Alkyloximes by Titanium Tetrahalide Promoted Ring-Opening Reaction of 2-Mono-Substituted Azetidin-3-ones and Their *O*-Alkyloximes

Shizuka Ariga, Shingo Hata, Daisuke Fukuda, Takafumi Nishi, Iwao Hachiya, and Makoto Shimizu*


 α -Amino Ketone *O*-Alkyloxime Azetidin-3-one Titanium Tetrahalide Ring-Opening Reaction

1211 An Effective Procedure to Promote Aza-Prins Cyclization Reactions Employing a Combination of Ferric Chloride and an Imidazolium Salt in Benzotrifluoride

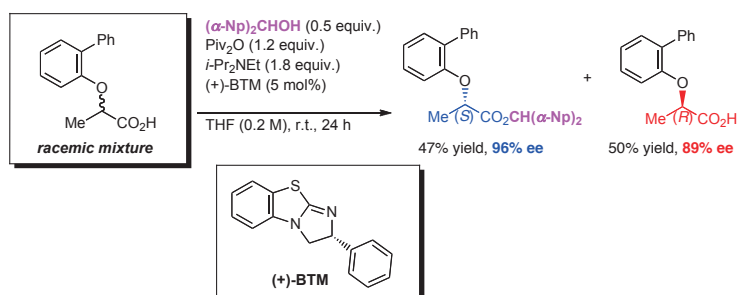
Chika Osawa, Minami Tateyama, Kensuke Miura, Eiji Tayama, Hajime Iwamoto, and Eietsu Hasegawa*



Aza-Prins Cyclization Iron(III) Chloride Imidazolium Salt Benzotrifluoride Felm-BTF Procedure

1227 A New Method for Production of Chiral 2-Aryloxypropanoic Acids Using Effective Kinetic Resolution of Racemic 2-Aryloxycarboxylic Acids

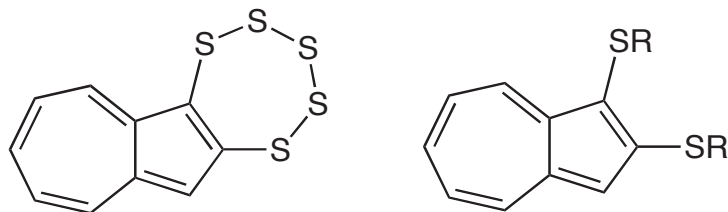
Atsushi Tengeji, Kenya Nakata, Keisuke Ono, and Isamu Shiina*



Kinetic Resolution Asymmetric Esterification 2-Aryloxypropanoic Acid

1253 Azulenopentathiepin: Preparation and Conversion into Azulenes with Sulfur Groups at the 1- and 2-Positions

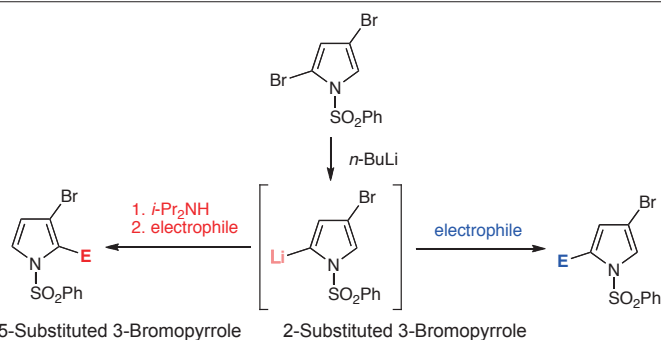
Ohki Sato,* Atsushi Sakai, Masami Aoki, Takaaki Kuramochi, and Juzo Nakayama



Azulene Pentathiepin Elemental Sulfur Pyridine Sulfur Group

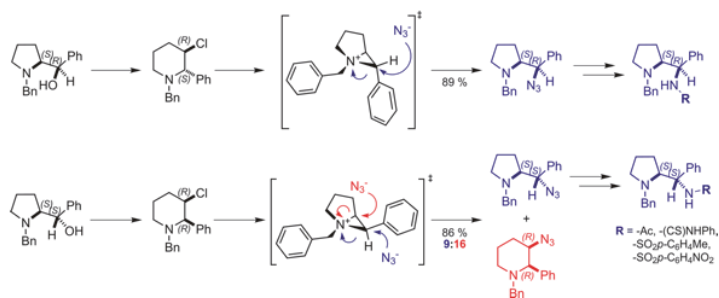
1261 Optional Synthesis of 2- or 5-Substituted 3-Bromopyrroles via Bromine-Lithium Exchange of *N*-Benzenesulfonyl-2,4-dibromopyrrole

Tsutomu Fukuda and Masatomo Iwao*


N-Benzenesulfonyl-2,4-dibromopyrrole Bromine-Lithium Exchange

1275 Synthesis of Versatile Bifunctional Derivatives of Chiral Diamines Obtained through Anchimerically Assisted Nucleophilic Substitution Reactions on Diastereomeric Phenylprolinols

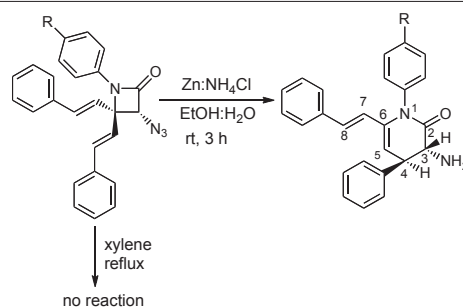
Jorge Vargas-Caporalí, Carlos Cruz-Hernández, and Eusebio Juaristi*



Aziridinium Intermediate Stereoselective Ring Expansion Anchimeric Assistance Bifunctional Pyrrolidine Ligand Chiral Diamine

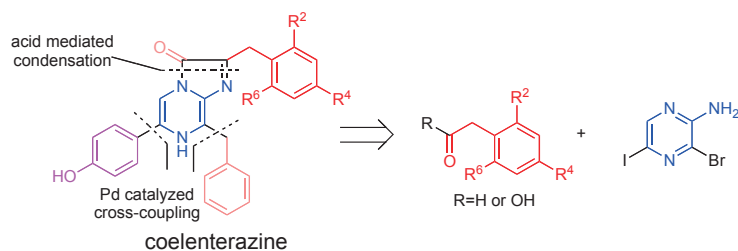
1301 Synthetic Studies on the Role of Substituents at C-3 Position on C3-C4 Bond Cleavage of β -Lactam Ring: Convenient Route for Diastereoselective Synthesis of Pyridin-2-ones

Pardeep Singh, Parvesh Singh, Kewal Kumar, Vipin Kumar, Mohinder P. Mahajan,* and Krishna Bisetty


 β -Lactam Pyridin-2-one C(3)-C(4) Bond Cleavage 1,3-Sigmatropic Shift Computational Study

1323 Chemical Synthesis of Coelenterazine and Its Analogs: New Route toward Four Segment-Couplings

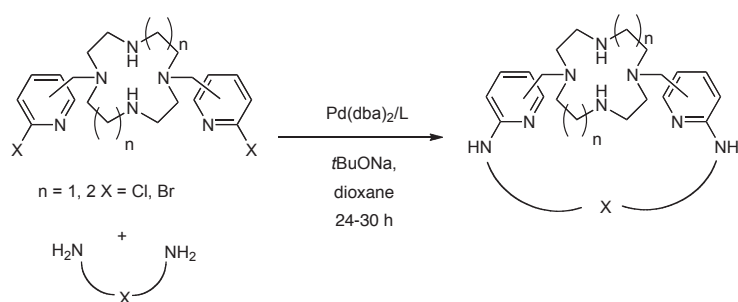
Chun-Ming Chou, Yu-Wen Tung, Meng-I Ling, Diana Chan, Wong Phakhodee, and Minoru Isobe*



Keto-Aldehyde Ketone Formation Selective Halogenation Umpolung

1341 Palladium-Catalyzed Amination in the Synthesis of Macrocycles Incorporating Cyclen, Cyclam and Pyridine Moieties

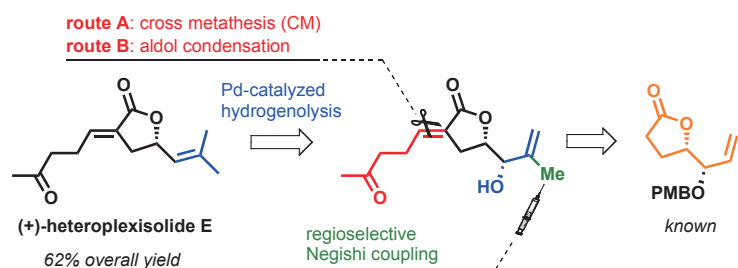
Alexei D. Averin, Kanat S. Tyutenov, Anton V. Shukhaev, Sergei M. Kobelev, Alexei K. Buryak, Franck Denat, Roger Guillard, and Irina P. Beletskaya*



Macrocycle Amination Pyridine Palladium Catalysis Polyamine

1367 Total Synthesis of (+)-Heteroplexisolide E

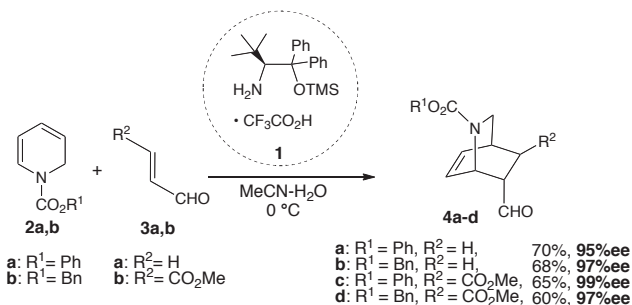
Noriki Kutsumura,* Akito Kiriseko, and Takao Saito*



Heteroplexisolide E Total Synthesis One-Pot Negishi Coupling Aldol Condensation Palladium-Catalyzed Hydrogenolysis

1379 Chiral Primary Amino Silyl Ether Organocatalyst for the Enantioselective Diels-Alder Reaction of 1,2-Dihydropyridines with Aldehydes

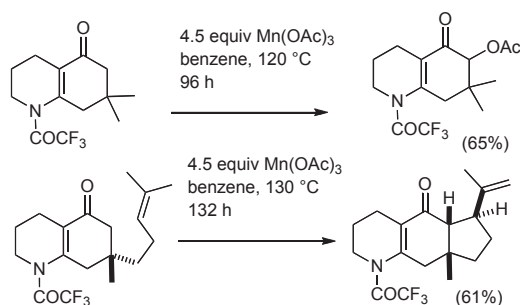
Yuki Sakuta, Yoshihito Kohari, N. D. M. Romauli Hutabarat, Koji Uwai, Eunsang Kwon, Yuko Okuyama, Chigusa Seki, Haruo Matsuyama, Nobuhiro Takano, Michio Tokiwa, Mitsuhiro Takeshita, and Hiroto Nakano*



Amino Silyl Ether Organocatalyst Diels-Alder Reaction 1,2-Dihydropyridine Tamiflu

1391 Mn(OAc)₃-Based α '-Oxidative Acetoxylation of *N*-Trifluoroacetyl Vinyllogous Amides

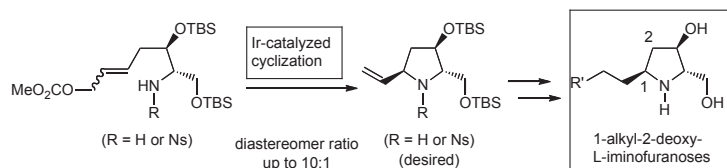
Hong-Yu Lin and Barry B. Snider*



Vinyllogous Amide Oxidative Acetoxylation Oxidative Cyclization Pyridine Free Radical

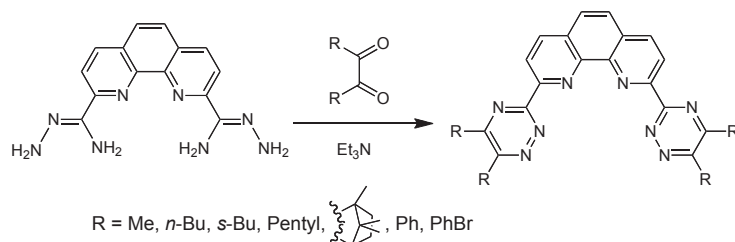
1401 Asymmetric Synthesis of 1-Alkyl-2-deoxyiminofuranoses via the Iridium-Catalyzed Intramolecular Cyclization of an Allylic Carbonate

Yoshihiro Natori, Shunsuke Kikuchi, Yuichi Yoshimura, Atsushi Kato, Isao Adachi, and Hiroki Takahata*


 1-Alkyl-2-deoxyiminofuranose Ir-Catalyzed Allylic Cyclization α -Glucosidase Inhibitor

1419 Tuning the Solubilities of Bis-Triazinylphenanthroline Ligands (BTPHens) and Their Complexes

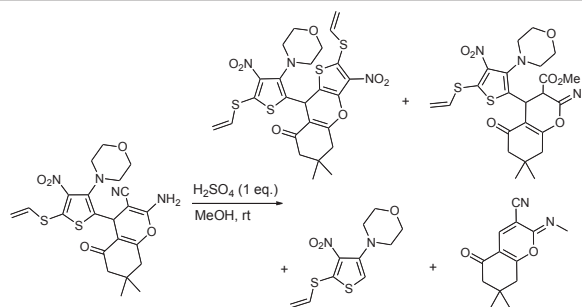
Dominic M. Laventine, Ashfaq Afsar, Michael J. Hudson, and Laurence M. Harwood*



BTPHen Bis-Triazine Phenanthroline Solubility Complexation

1431 Chemistry of Polyhalogenated Nitrobutadienes, 12: Synthesis of Novel, Highly Substituted Bi- and Tricyclic 5,6,7,8-Tetrahydro-4*H*-chromen-5-ones

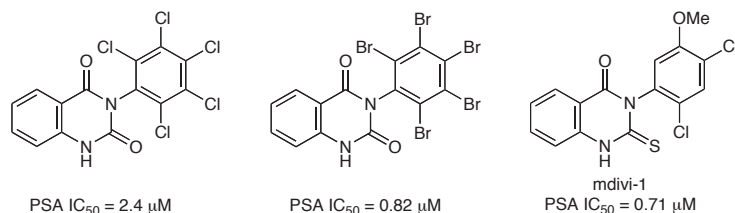
Viktor A. Zapol'skii, Eva-Janina Vogt, Mimoza Gjickaj, and Dieter E. Kaufmann*



Chromene Thiophene Dimedone Protonolysis X-Ray

1449 Specific Inhibitors of Puromycin-Sensitive Amino-peptidase with a 3-(Halogenated Phenyl)-2,4(1*H*,3*H*)-quinazolin-5(1*H*)-one Skeleton

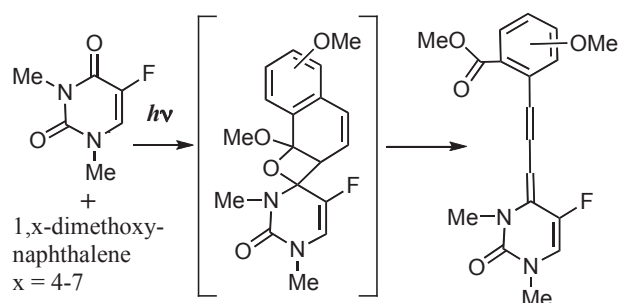
Yotaro Matsumoto,* Tomomi Noguchi-Yachide, Masaharu Nakamura, Yusuke Mita, Akiyoshi Numadate, and Yuichi Hashimoto*



Puromycin-Sensitive Aminopeptidase Quinazolin-5-one Inhibitor PSA Mdivi-1

1465 New Results on the Photoreactivity of 5-Fluoro-1,3-dimethyluracil with Methoxylated Naphthalenes

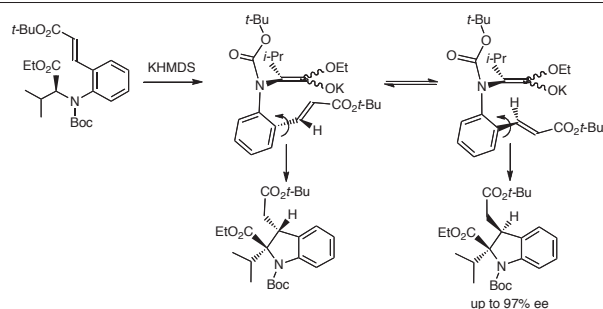
Kazue Ohkura,* Kazuya Aizawa, Rie Mukaida, Hiromichi Akizawa, and Koh-ichi Seki*



Paterno-Büchi Reaction Oxetane Formation Arylpropenylidene-1,3-diazin-2-one Photocycloaddition

1483 Asymmetric Intramolecular Conjugate Addition of α -Amino Acid Derivatives via Racemization-Free Equilibrium of Intermediary Chiral Enolates

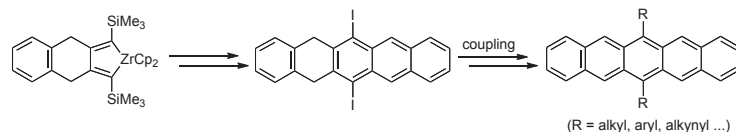
Daiki Monguchi, Tomoyuki Yoshimura, Kazuyuki Irie, Kazuhiro Hayashi, Swapan Majumdar, Takahiro Sasamori, Norihiro Tokitoh, and Takeo Kawabata*



Asymmetric Synthesis Axial Chirality Enolate Equilibrium Indoline

1495 Application of Zirconacyclopentadienes (Metalla-heterocycles) and Cross-Coupling for the Convenient Preparative Method of 6,13-Disubstituted Pentacene

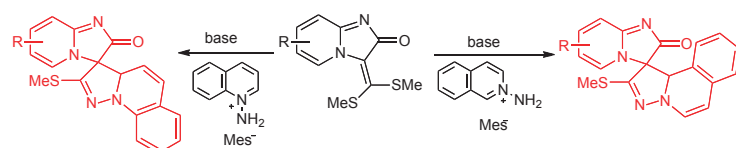
Zhiying Jia, Shi Li, Kiyohiko Nakajima, Ken-ichiro Kanno, Zhiyi Song, and Tamotsu Takahashi*



Zirconacyclopentadiene Diiododihydropentacene Cross-Coupling Aromatization Pentacene

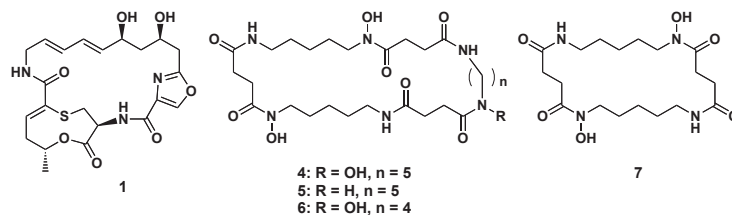
SHORT PAPERS
1507 Reactions of 3-[Bis(methylthio)methylene]-2(3*H*)-imidazo[1,2-*a*]pyridinones with Quinolinium and Isoquinolinium *N*-Unsubstituted Aminides

Akikazu Kakehi,* Takashi Abe, Hiroyuki Suga, and Kennosuke Itoh


 1,3-Dipolar Cycloaddition 2(3*H*)-Imidazo[1,2-*a*]pyridinone Quinolinium and Isoquinolinium Aminides Spiro Compound Ketene Dithioacetal

1517 Griseoviridin and Cyclic Hydroxamates Found in a Screening Program for Wnt Signal Inhibitor

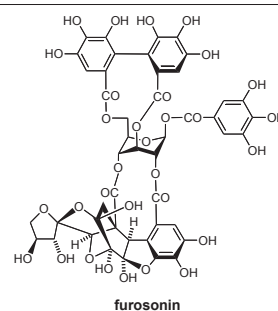
Yuuya Tamai, Kazufumi Toume, Midori A. Arai, and Masami Ishibashi*



Actinomycete Wnt Signaling Griseoviridin Nocardamine

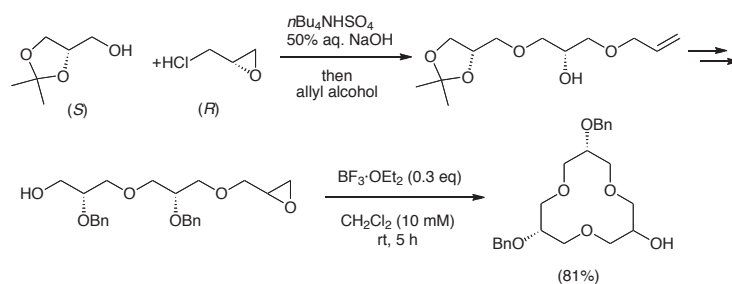
1525 Furosonin, a Novel Hydrolyzable Tannin from *Geranium thunbergii*

Shoko Taniguchi, Ryouta Nogaki, Li-Ming Bao, Teruo Kuroda, Hideyuki Ito, and Tsutomu Hatano*


 Hydrolyzable Tannin *Geranium thunbergii* Geraniaceae Methicillin-Resistant *Staphylococcus aureus* Antibiotic Resistance

1533 Short and Stereocontrolled Cyclic Polyglycerols Synthesis Using $\text{BF}_3 \cdot \text{OEt}_2$ Mediated Intramolecular Epoxide-Opening Reaction

Masahiro Hamada,* Takao Kishimoto, and Noriyuki Nakajima



Cyclic Polyglycerol Stereocontrolled Synthesis Three-Component Coupling Intramolecular Epoxide-Opening

1541 Synthesis of a Novel Non-Benzenoid Quinone, 3,10-Dihydro-2,4-dimethyl-7,13-methanocyclohepta[11]annulene-3,10-dione, from 8*H*-7,9-Bis(methoxycarbonyl)-5,11-methano[11]annuleno[*c*]furan-8-one

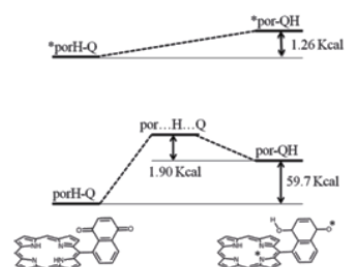
Shigeyasu Kuroda,* Naoko Matsumoto, Yanmei Zhang, Ryuta Miyatake, Yurie Fujiwara, and Mitsunori Oda*



Methano[11]annulene Furan Dicationic Species [4+3] Cycloaddition Protonation

1549 Computational Investigation of a Photo-Switchable Single-Molecule Magnet Based on a Porphyrin Terbium Double-Decker Complex

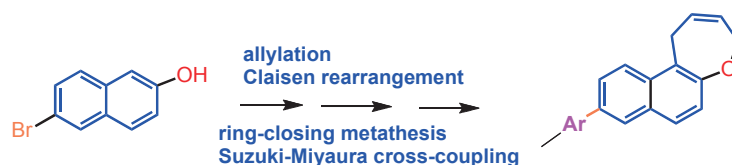
Tomoko Inose, Daisuke Tanaka, and Takuji Ogawa*



Single-Molecule Magnet Excited State Intramolecular Proton Transfer

1555 Diversity Oriented Approach to 9-Aryl-substituted Naphthoxepine Derivatives via Claisen Rearrangement, Ring-Closing Metathesis and Suzuki–Miyaura Cross-Coupling as Key Steps

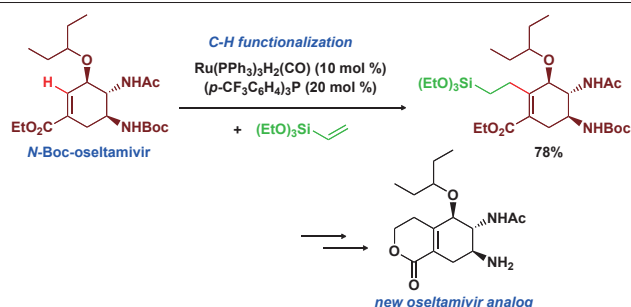
Sambasivarao Kotha,* Venu Srinivas, and Nimita G. Krishna



Diversity Oriented Approach Claisen Rearrangement Ring-Closing Metathesis Suzuki-Miyaura Cross-Coupling Naphthoxepine

1565 Synthesis of a New Oseltamivir Derivative through Late-Stage Catalytic C–H Functionalization

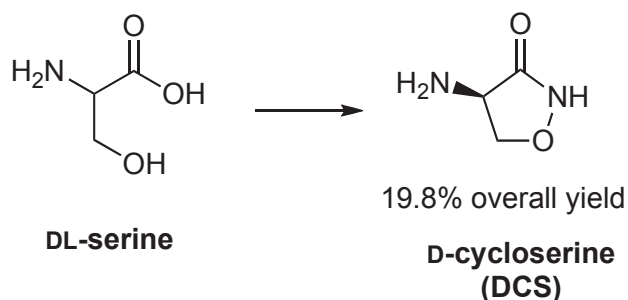
Kenta Saito and Motomu Kanai*



C-H Functionalization Lead Optimization Catalysis Ruthenium Oseltamivir

1575 Preparation of D-Cycloserine and ¹³C-Labeled D-Cycloserine

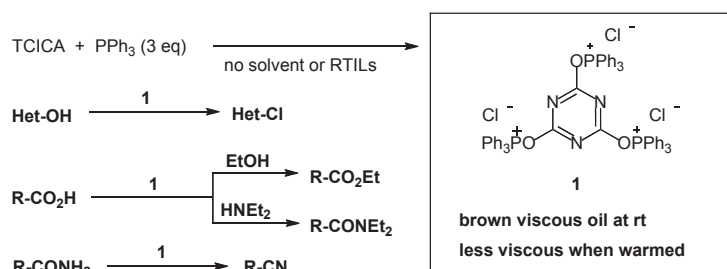
Nathan C. Thacker, Judit Molnár-Tóth, Judy L. Miska, Raul G. Barletta, and James M. Takacs*



Cycloserine Resolution Synthesis Tuberculosis Isotopic Labeling

1583 Phosphonium Chloride as a Non-Volatile Chlorinating Reagent: Preparation and Reaction in No Solvent or Ionic Liquid

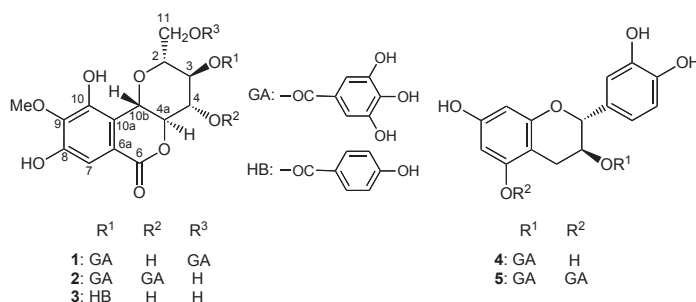
Osamu Sugimoto,* Yukihiro Harada, and Ken-ichi Tanji*



Chlorination Phosphonium Chloride Azine Diazine Phosphorus Oxochloride

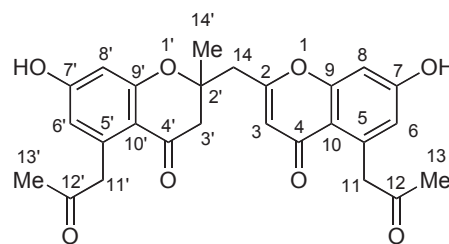
1591 A New Galloylbergenin from *Bergenia crassifolia* with Anti-Lipid Droplet Accumulation Activity

Jenis Janar, Liang Fang, Chin Piow Wong, Toshio Kaneda, Yusuke Hirasawa, Burasheva Gauhar Shahmanovna, Abilov Zharylkasyn Abduahitovich, and Hiroshi Morita*


 Bergenin Galloylbergenin *Bergenia crassifolia* Anti-Lipid Droplet Accumulation Activity

1597 Biomimetic Synthesis of Chrobisiamone A from *Cassia siamea*

Yuichiro Tomizawa, Jun Deguchi, Tokio Ishikawa, Toshio Honda, and Hiroshi Morita*

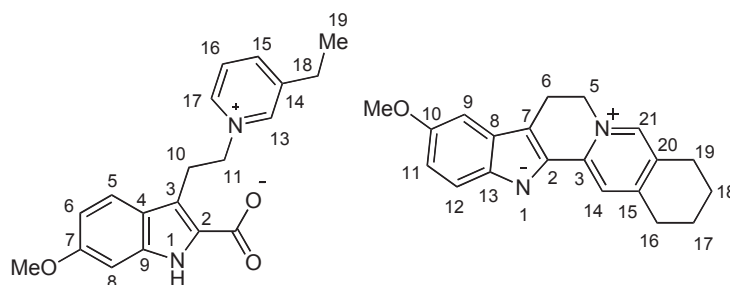


chrobisiamone A

Chrobisiamone A Chromone Dimer Total Synthesis Biomimetic Michael Addition

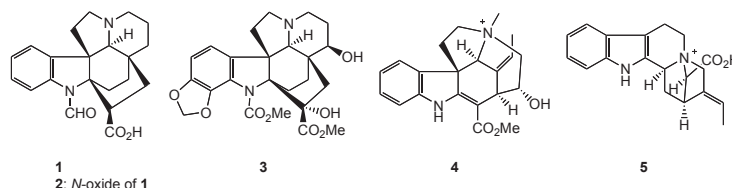
1603 New Indole Alkaloids from *Alstonia macrophylla*

Jun Deguchi, Tomokazu Shoji, Yusuke Hirasawa, Abdul Rahman, Osamu Shirota, and Hiroshi Morita*


 Indole Alkaloid *Alstonia macrophylla* Structure Elucidation Spectroscopic Analysis

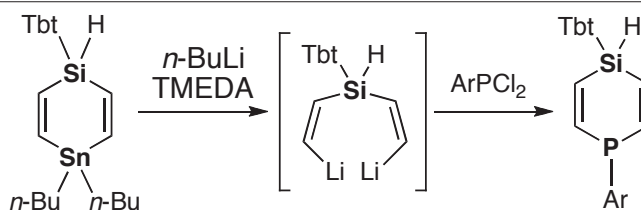
1611 New Aspidofractinine, Aspidospermatan and Akuamiline Indole Alkaloids from the Roots of *Kopsia singapurensis* Ridl.

Kartini Ahmad, Yusuke Hirasawa, Alfarius Eko Nugroho, A. Hamid A. Hadi, and Hiroshi Morita*


 Indole Alkaloid *Kopsia singapurensis* Aspidofractinine Aspidospermatan Akuamiline

1621 Synthesis of 1,4-Phoshasilacyclohexa-2,5-dienes Bearing Hydrogen or Chlorine Atoms on the Silicon Atoms

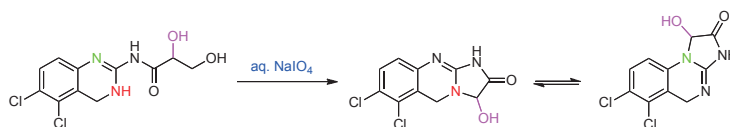
Yoshiyuki Mizuhata, Satoshi Morikawa, and Norihiro Tokitoh*


 Ar = Ph or 2,4,6-tri(*tert*-butyl)phenyl
 Tbt = 2,4,6-tris[bis(trimethylsilyl)methyl]phenyl

Silicon Phosphorus 1,4-Phoshasilacyclohexa-2,5-diene 1,4-Silastannacyclohexa-2,5-diene Transmetalation

1637 Synthesis and Stability of 3-Hydroxyanagrelide, a Biologically Potent Metabolite of Anagrelide

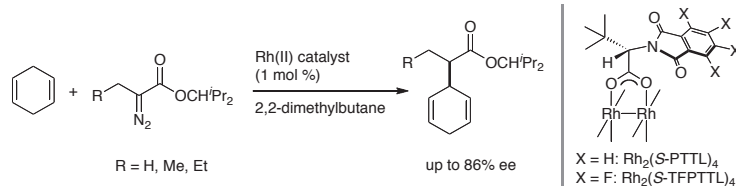
Richard B. Scott, Kristin M. Downey, Keith P. Healy, Alistair P. Henderson, Claire L. Robinson, William Clegg, Ross W. Harrington, Richard Franklin, and Bernard T. Golding*



Anagrelide Metabolite 3-Hydroxyanagrelide Ring Chain Tautomerism

1647 Catalytic Asymmetric Intermolecular C–H Insertion of 1,4-Cyclohexadiene with α -Alkyl- α -diazoesters Using Chiral Dirhodium(II) Carboxylates

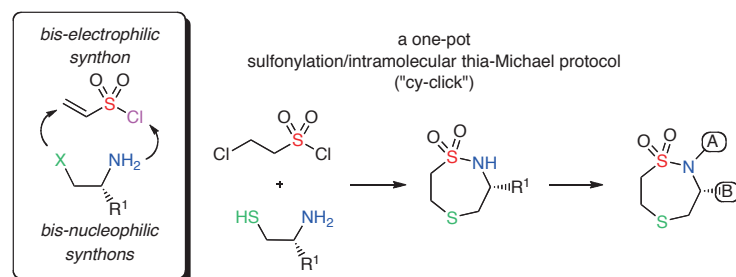
Takayuki Goto, Tomohiro Onozuka, Yuhei Kosaka, Masahiro Anada, Koji Takeda, and Shunichi Hashimoto*



Asymmetric Catalysis Carbene C–H Insertion Diazo Compound Dirhodium(II) Complex

1661 Synthesis of a Library of 1,5,2-Dithiazepine 1,1-Dioxides. Part 1: A One-Pot Sulfonylation/Thia-Michael Protocol

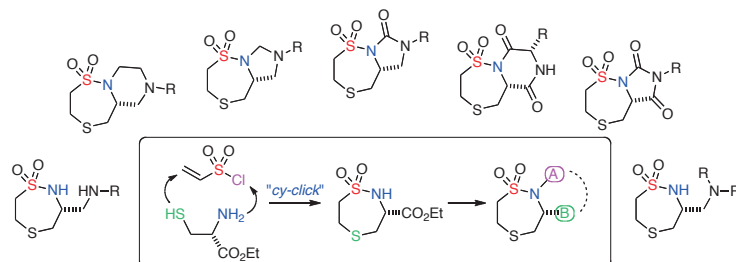
Qin Zang, Aihua Zhou, Salim Javed, Pradip K. Maity, Chris A. Knudtson, Danse Bi, Jared J. Hastings, Fatima Z. Basha, and Paul R. Hanson*



1,5,2-Dithiazepine 1,1-Dioxide Sultam Hetero-Michael Reaction Heterocycle Library Synthesis

1675 Synthesis of a Library of 1,5,2-Dithiazepine 1,1-Dioxides. Part 2: Routes to Bicyclic Sultams

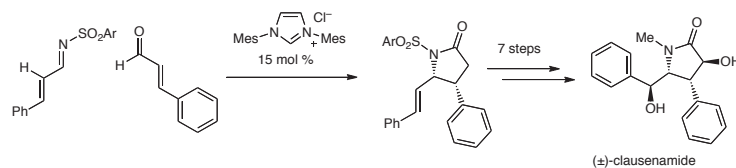
Qin Zang, Salim Javed, Aihua Zhou, Chirs A. Knudtson, Danse Bi, Fatima Z. Basha, and Paul R. Hanson*



1,5,2-Dithiazepine 1,1-Dioxide Sultam Library Synthesis Heterocycle Thia-Michael Reaction

1689 Formal Synthesis of (\pm)-Clausenamide by NHC-Catalyzed γ -Lactam Formation

Ming He, Michael Rommel, and Jeffrey W. Bode*


 Lactam Natural Product *N*-Heterocyclic Carbene Synthesis

■ INDEXES

1697	Author Index
1717	Subject Index

Contributors To This Issue

- 1591 Abduahitovich, Abilov Zharylkasyn
 955 Abe, Hajime
 1507 Abe, Takashi
 1401 Adachi, Isao
 1419 Afsar, Ashfaq
 1611 Ahmad, Kartini
 1465 Aizawa, Kazuya
 1465 Akizawa, Hiromichi
 927 Amaya, Toru
 1647 Anada, Masahiro
 1253 Aoki, Masami
 1517 Arai, Midori A.
 1129 Arai, Tatsuo
 1187 Ariga, Shizuka
 1103 Arisawa, Mieko
 1071 Asakawa, Tomohiro
 891 Asakawa, Yoshinori
 1177 Ashida, Takuro
 1341 Averin, Alexei D.
 1525 Bao, Li-Ming
 1575 Barletta, Raul G.
 1661, 1675 Basha, Fatima Z.
 1341 Beletskaya, Irina P.
 1661, 1675 Bi, Danse
 1301 Bisetty, Krishna
 1689 Bode, Jeffrey W.
 1341 Buryak, Alexei K.
 1003 Caspi, Daniel D.
 1323 Chan, Diana
 1323 Chou, Chun-Ming
 1119 Chrzanowska, Maria
 821 Chupakhin, Oleg N.
 1637 Clegg, William
 1275 Cruz-Hernández, Carlos
 1597, 1603 Deguchi, Jun
 791 Delso, Ignacio
 1341 Denat, Franck
 1055 DeShong, Philip
 1637 Downey, Kristin M.
 979 Egami, Hiromichi
 821 Egorov, Ilya N.
 1045 Fan, Hope
 1591 Fang, Liang
 1637 Franklin, Richard
 973 Fujihara, Hisashi
 1541 Fujiwara, Yurie
 1187 Fukuda, Daisuke
 1261 Fukuda, Tsutomu
 1071 Fukuyama, Tohru
 1431 Gjikaj, Mimoza
 1637 Golding, Bernard T.
 791 Gomollón-Bel, Fernando
 1647 Goto, Takayuki
 1119 Grajewska, Agnieszka
 1045 Groth, Ulrich
 1341 Guillard, Roger
 1187 Hachiya, Iwao
 1611 Hadi, A. Hamid A.
 1533 Hamada, Masahiro
 1147 Hanaya, Tadashi
 1661, 1675 Hanson, Paul R.
 1583 Harada, Yukihiko
 1135 Hari, Yoshiyuki
 1637 Harrington, Ross W.
 965 Harrington, Ryan M.
 1419 Harwood, Laurence M.
 1211 Hasegawa, Eietsu
 1647 Hashimoto, Shunichi
 1449 Hashimoto, Yuichi
 1661 Hastings, Jared J.
 1187 Hata, Shingo
 1177 Hatakenaka, Mizuki
 1525 Hatano, Tsutomu
 1483 Hayashi, Kazuhiro
 1689 He, Ming
 1637 Healy, Keith P.
 1637 Henderson, Alistair P.
 927 Hirao, Toshikazu
 991 Hirao, Yasukazu
 1591, 1603, 1611 Hirasawa, Yusuke
 1597 Honda, Toshio
 1039 Honzawa, Shinobu
 1419 Hudson, Michael J.
 1023 Hudson, Reuben
 1379 Hutabarat, N. D. M. Romauli
 1071 Ieda, Shigeru
 1039 Iio, Natsuki
 1039 Iizuka, Ayano
 1031 Inomata, Katsuhiko
 1549 Inose, Tomoko
 955 Inouye, Masahiko
 1483 Irie, Kazuyuki
 1517 Ishibashi, Masami
 1023 Ishikawa, Shingo
 1597 Ishikawa, Tokio
 1009 Ishiyama, Haruaki
 1323 Isobe, Minoru
 1525 Ito, Hideyuki
 927 Ito, Tsubasa
 1507 Itoh, Kennosuke
 1211 Iwamoto, Hajime
 1031 Iwamoto, Ryoji
 1261 Iwao, Masatomo
 933 Iwasaki, Masayuki
 1591 Janar, Jenis
 1661, 1675 Javed, Salim
 1495 Jia, Zhiying
 947 Jitsukawa, Koichiro

- | | | | | | |
|------------|-----------------------|------------------------|-------------------------|------|-------------------------------|
| 1275 | Juaristi, Eusebio | 791 | Marca, Eduardo | 1379 | Okuyama, Yuko |
| 997 | Kadota, Isao | 1071 | Masuda, Akitaka | 1227 | Ono, Keisuke |
| 1507 | Takehi, Akikazu | 919 | Matsuda, Sho | 1647 | Onozuka, Tomohiro |
| 941 | Kakusawa, Naoki | 991 | Matsumoto, Kouzou | 1039 | Oohora, Takuya |
| 1071 | Kan, Toshiyuki | 1541 | Matsumoto, Naoko | 1211 | Osawa, Chika |
| 1565 | Kanai, Motomu | 1009 | Matsumoto, Takashi | 1323 | Phakhodee, Wong |
| 1015 | Kanda, Takashi | 1449 | Matsumoto, Yotaro | 1003 | Piller, Fabian M. |
| 947 | Kaneda, Kiyotomi | 1379 | Matsuyama, Haruo | 1603 | Rahman, Abdul |
| 1591 | Kaneda, Toshio | 791 | Matute, Rosa | 1637 | Robinson, Claire L. |
| 1495 | Kanno, Ken-ichiro | 791 | Merino, Pedro | 1689 | Rommel, Michael |
| 1071 | Kariyama, Mami | 1045 | Miller, Ricarda E. | 1119 | Rozwadowska, Maria D. |
| 1401 | Kato, Atsushi | 919 | Misawa, Noriko | 821 | Rusinov, Vladimir L. |
| 985 | Kato, Tadashi | 1575 | Miska, Judy L. | 1093 | Saeki, Megumi |
| 1431 | Kaufmann, Dieter E. | 1449 | Mita, Yusuke | 1565 | Saito, Kenta |
| 1483 | Kawabata, Takeo | 947 | Mitsudome, Takato | 1367 | Saito, Takao |
| 1147 | Kawaguchi, Masahiro | 1211 | Miura, Kensuke | 1177 | Sakaemura, Takushi |
| 1093 | Kawai, Yasufumi | 1541 | Miyatake, Ryuta | 1253 | Sakai, Atsushi |
| 1401 | Kikuchi, Shunsuke | 979 | Miyazaki, Ayako | 1031 | Sakata, Ryo |
| 1015 | Kimura, Yu | 947 | Mizugaki, Tomoo | 1379 | Sakuta, Yuki |
| 1367 | Kiriseko, Akito | 1621 | Mizuhata, Yoshiyuki | 1483 | Sasamori, Takahiro |
| 1533 | Kishimoto, Takao | 1575 | Molnár-Tóth, Judit | 1253 | Sato, Ohki |
| 1661, 1675 | Knudtson, Chirs A. | 1483 | Monguchi, Daiki | 1039 | Sawanaka, Chiemi |
| 1009 | Kobayashi, Jun'ichi | 1023 | Moore, Audrey | 1637 | Scott, Richard B. |
| 1129 | Kobayashi, Takuya | 1009 | Mori, Yuta | 1379 | Seki, Chigusa |
| 1341 | Kobelev, Sergei M. | 1621 | Morikawa, Satoshi | 1465 | Seki, Koh-ichi |
| 1379 | Kohari, Yoshihito | 1591, 1597, 1603, 1611 | Morita, Hiroshi | 1039 | Seki, Megumi |
| 1015 | Kondo, Teruyuki | 1465 | Mukaida, Rie | 1591 | Shahmanovna, Burasheva Gauhar |
| 1647 | Kosaka, Yuhei | 1167 | Murakami, Kazuya | 1227 | Shiina, Isamu |
| 1555 | Kotha, Sambasivarao | 1039 | Murakawa, Akira | 1187 | Shimizu, Makoto |
| 1555 | Krishna, Nimita G. | 1135 | Nakahara, Motoi | 979 | Shimizu, Ryo |
| 991 | Kubo, Takashi | 973 | Nakahodo, Tsukasa | 1177 | Shimomura, Naofumi |
| 1301 | Kumar, Kewal | 933, 1495 | Nakajima, Kiyohiko | 997 | Shiroma, Kengo |
| 1301 | Kumar, Vipran | 1533 | Nakajima, Noriyuki | 1603 | Shirota, Osamu |
| 1253 | Kuramochi, Takaaki | 1449 | Nakamura, Masaharu | 1603 | Shoji, Tomokazu |
| 991 | Kurata, Hiroyuki | 1103 | Nakane, Soichiro | 1341 | Shukhaev, Anton V. |
| 941 | Kurita, Jyoji | 1379 | Nakano, Hiroto | 1055 | Shukla, Krupa H. |
| 1541 | Kuroda, Shigeyasu | 1227 | Nakata, Kenya | 1301 | Singh, Pardeep |
| 1525 | Kuroda, Teruo | 1253 | Nakayama, Juzo | 1301 | Singh, Parvesh |
| 1367 | Kutsumura, Noriki | 1401 | Natori, Yoshihiro | 1391 | Snider, Barry B. |
| 1103 | Kuwajima, Manabu | 1187 | Nishi, Takafumi | 1045 | Snieckus, Victor |
| 1379 | Kwon, Eunsang | 933 | Nishihara, Yasushi | 979 | Sodeoka, Mikiko |
| 1419 | Laventine, Dominic M. | 991 | Nishizawa, Maho | 1031 | Soeta, Takahiro |
| 1023 | Li, Chao-Jun | 1525 | Nogaki, Ryouta | 1045 | Sommer, Roman |
| 933 | Li, Jing | 1449 | Noguchi-Yachide, Tomomi | 1495 | Song, Zhiyi |
| 1495 | Li, Shi | 933 | Noyori, Shintaro | 1555 | Srinivas, Venu |
| 1391 | Lin, Hong-Yu | 1611 | Nugroho, Alfarius Eko | 1003 | Stoltz, Brian M. |
| 1323 | Ling, Meng-I | 1449 | Numadate, Akiyoshi | 1507 | Suga, Hiroyuki |
| 891 | Ludwiczuk, Agnieszka | 1135 | Obika, Satoshi | 1039 | Sugihara, Takumichi |
| 947 | Maeno, Zen | 1541 | Oda, Mitsunori | 1583 | Sugimoto, Osamu |
| 1301 | Mahajan, Mohinder P. | 919 | Oda, Yoshiki | 985 | Sugizaki, Tomohiro |
| 1661 | Maity, Pradip K. | 1549 | Ogawa, Takuji | 1147 | Sumi, Masakazu |
| 1483 | Majumdar, Swapan | 1465 | Ohkura, Kazue | 1575 | Takacs, James M. |
| 955 | Makida, Hiroki | 1167 | Ohshita, Joji | 1015 | Takagi, Daisuke |
| 1147 | Makino, Kazuo | 1177 | Okada, Etsuji | 1031 | Takahashi, Kana |

- 1495 Takahashi, Tamotsu
1401 Takahata, Hiroki
997 Takamura, Hiroyoshi
1379 Takano, Nobuhiro
1647 Takeda, Koji
1379 Takeshita, Mitsuhiro
1517 Tamai, Yuuya
1167 Tanaka, Daiki
1549 Tanaka, Daisuke
1525 Taniguchi, Shoko
1583 Tanji, Ken-ichi
1211 Tateyama, Minami
1211 Tayama, Eiji
791 Tejero, Tomas
1227 Tengeiji, Atsushi
1575 Thacker, Nathan C.
1483, 1621 Tokitoh, Norihiro
1379 Tokiwa, Michio
1597 Tomizawa, Yuichiro
1015 Toshimitsu, Akio
1517 Toume, Kazufumi
1093 Toyota, Masahiro
985 Tozawa, Yumi
821 Tseitler, Tatyana A.
941 Tsuchiya, Takashi
1147 Tsukada, Keiko
941 Tsukada, Satoshi
1323 Tung, Yu-Wen
1341 Tyutenov, Kanat S.
1031 Ukaji, Yutaka
1379 Uwai, Koji
1275 Vargas-Caporali, Jorge
1003 Virgil, Scott C.
1431 Vogt, Eva-Janina
1015 Wada, Kenji
1071 Wakimoto, Toshiyuki
985 Watanabe, Kazuhiro
919 Watanabe, Mikio
1591 Wong, Chin Piow
965 Wright, David
1103 Yamaguchi, Masahiko
1147 Yamamoto, Hiroshi
973 Yamamoto, Katsuya
919 Yamanoi, Takashi
941 Yasuike, Shuji
1167 Yoshida, Hiroto
1483 Yoshimura, Tomoyuki
1401 Yoshimura, Yuichi
1661, 1675 Zang, Qin
1431 Zapol'skii, Viktor A.
965 Zard, Samir Z.
1003 Zhang, Haiming
1541 Zhang, Yanmei
1661, 1675 Zhou, Aihua
- 821 Zyryanov, Grigory V.