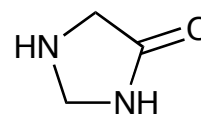


■ REVIEW

1953 Imidazolidin-4-ones: Their Syntheses and Applications

Timothy R. Blackmore* and Philip E. Thompson

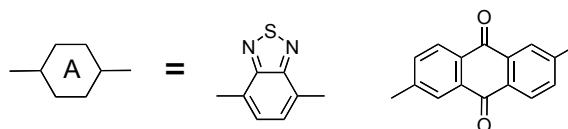
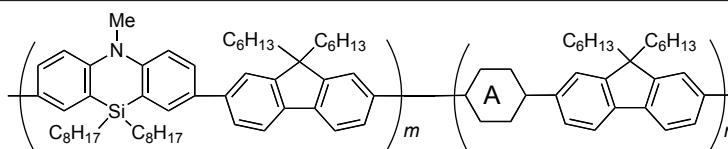


Imidazolidinone Imidazolidin-4-one Medicinal Chemistry Cyclization Ring Expansion

■ COMMUNICATIONS

1977 Synthesis and Donor- π -Acceptor Properties of Polyfluorene Derivatives Containing a Phenazasiline Moiety and an Electron Acceptor

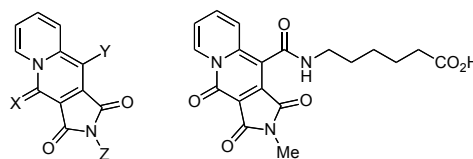
Katsuhiko Ono,* Takuji Kobayashi, Yumi Sato, Katsuya Eguchi, Shinya Kato, Naoki Kishi, and Tetsuo Soga



Conjugated Polymer Polyfluorene Phenazasiline Donor- π -Acceptor System Photovoltaic Property

1983 Synthesis of Fluorescent Pyrrolo[3,4-*b*]quinolizine Derivatives and Evaluation as a Protein-Labeling Probe

Masayori Hagimori, Naoko Mizuyama, Kenichirou Yokota, Osamu Morinaga, Yasuchika Yamaguchi, Hideo Saji, and Yoshinori Tominaga*



X: NH, O
Y: CN, CO₂Me, CO₂Et, H
Z: Me, H

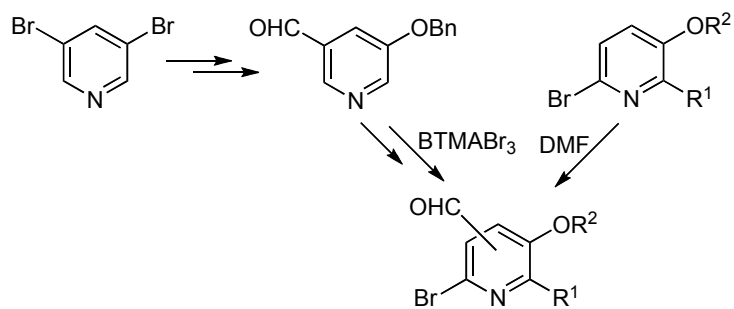
Em max: 484-604 nm (solution)
534-640 nm (solid)

Fluorescence Pyrrolo[3,4-*b*]quinolizine Core Skelton Wide Wavelength Range Fluorescent Labeling-Probe

■ PAPERS

1989 Synthetic Studies of Substituted Pyridine Aldehydes as Intermediates for the Synthesis of Toddaquinoline, Its Derivatives and Other Natural Products

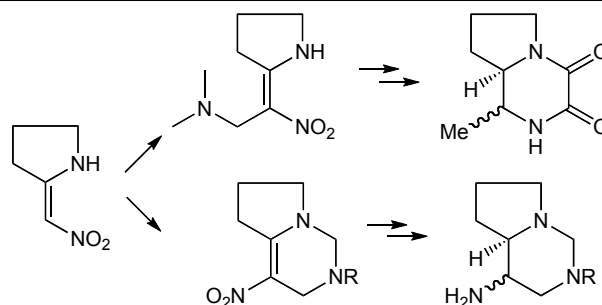
Georgeta Serban,* Hitoshi Abe, and Yasuo Takeuchi



Pyridine Aldehyde Toddaquinoline DMF-Formylation Vilsmeier-Haack Formylation Benzyltrimethylammonium Tribromide

2001 Chemistry of Nitroenamines. Part 2. Synthesis of Saturated Pyrrolo-pyrimidines and -pyrazines

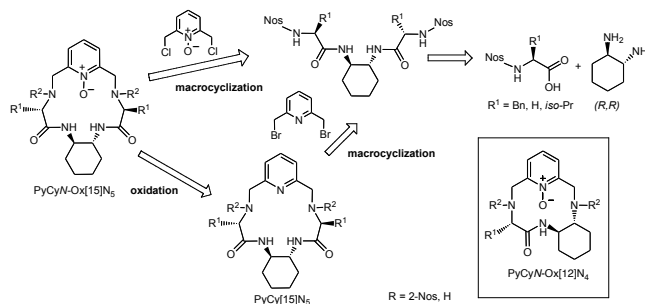
Pál Scheiber,* Gábor Tóth, Mihály V. Pilipecz, Tamas R. Varga, and Péter Nemes



2-Nitromethylenepyrrolidine Mannich Reaction Catalytic Hydrogenation Diastereomer

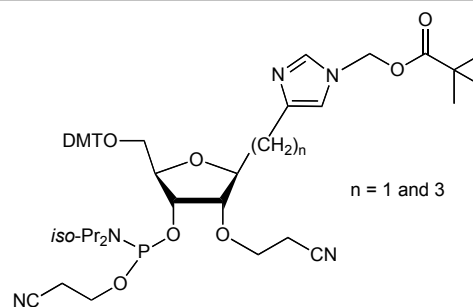
2011 Ready Available Chiral Azapyridinomacrocycles *N*-Oxides; First Results as Lewis Base Catalysts in Asymmetric Allylation of *p*-Nitrobenzaldehyde

Maité Sylla-Iyarreta Veitia,* Mounia Joudat, Mathieu Wagner, Annie Falguières, Alain Guy, and Clotilde Ferroud*


 Pyridine *N*-Oxide Macrocycle Organocatalyst Enantioselective Allylation Asymmetric Catalysis

2041 Synthesis of Imidazole C₁- and C₃-Ribonucleoside Phosphoramidites for Probing Catalytic Mechanism in Ribozyme

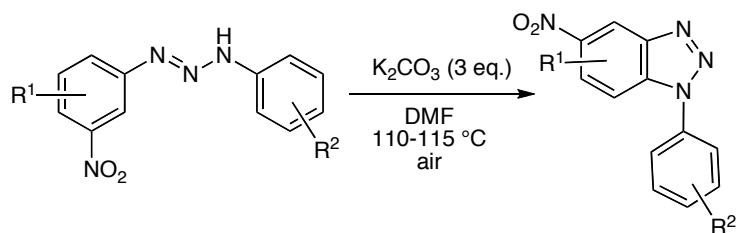
Shinya Harusawa,* Kensuke Fujii, Masayoshi Nishiura, Lisa Araki, Yoshihide Usami, Zheng-yun Zhao, and David M. J. Lilley



Imidazole Phosphoramidite Ribozyme RNA Mechanism

2057 A Novel Synthesis of 1-Aryl-1*H*-benzotriazoles *via* Oxidative C-H Amination

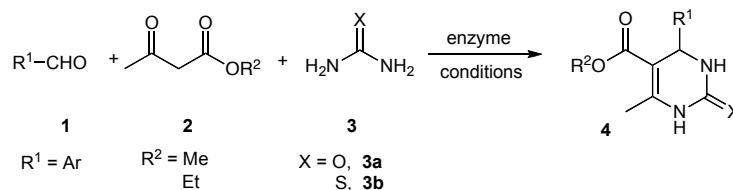
Zhou Zhou, Qi-Lun Liu, Wen Li, and Yong-Ming Zhu*



Benzotriazole Nitro Participated C-H Amination Regiospecific 1,3-Diaryltriazene

2067 One-Pot Synthesis of Dihydropyrimidiones via Environmentally Friendly Enzyme-Catalyzed Biginelli Reaction

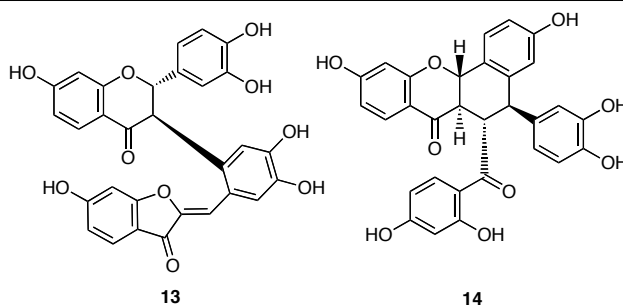
Wanmei Li, Guobin Zhou, Pengfei Zhang,* Yifeng Lai, and Shifu Xu



Enzyme-Catalyzed Reaction One-Pot Synthesis Dihydropyrimidione Environmentally Benign Reaction

2079 Biflavonoids from Flowers of *Butea monosperma* (Lam.) Taub.

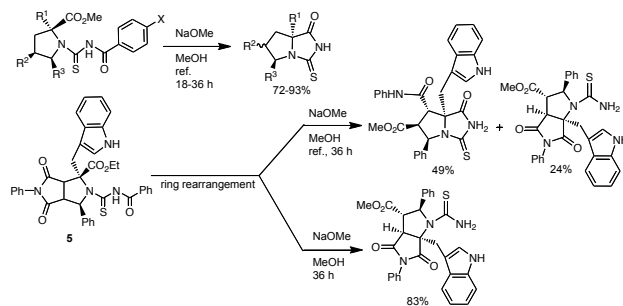
Fakhruddin Ali Ahmed, Sang-Yong Kim, Shin-ichiro Kurimoto, Hisako Sasaki, Hirofumi Shibata, Yoshiki Kashiwada,* and Yoshihisa Takaishi



Butea monosperma Fabaceae Biflavonoid Neuraminidase DPPH

2091 Polysubstituted Fused Ring Bicyclic Thiohydantoins from Aminocarbo-*N*-thiopyrrolidines Derived from Azomethine Ylide 1,3-Dipolar Cycloadditions

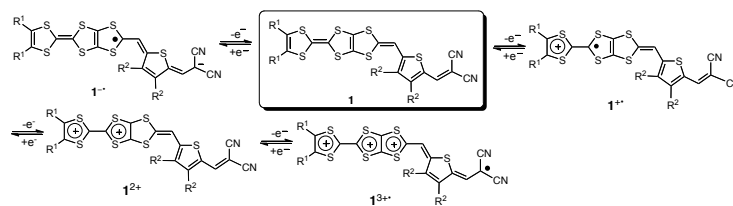
Yahya Nural, H. Ali Döndaş,* Ronald Grigg, and Ertan Şahin



Fused Ring Thiohydantoin Thiocarbamoylpyrrolidine Azomethine Ylide 1,3-Dipolar Cycloaddition Aroylaminocarbo-*N*-thiopyrrolidine

2115 Synthesis and Properties of a New Donor-Acceptor Diad Composed of DT-TTF and Dicyanomethylidene Group

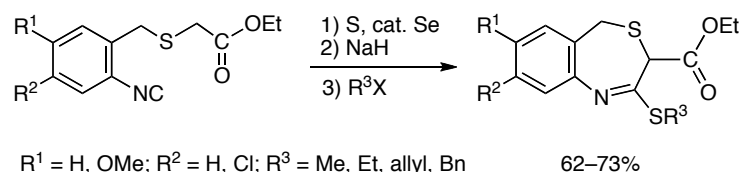
Ken-ichi Nakamura, Takashi Shirahata, Hisakazu Miyamoto, and Yohji Misaki*



1,3-Dithiol-2-ylidene Donor Acceptor Molecular Conductor Cyclic Voltammetry

2127 Synthesis of 1,2,3,5-Tetrahydro-4,1-benzothiazepin-2-thione Derivatives via Cyclization of 2-[(2-Isothiocyantophenyl)methylsulfanyl]acetates with Sodium Hydride

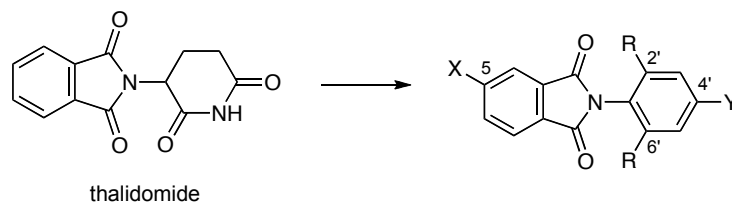
Kazuhiro Kobayashi,* Yoshinori Enmi, Daisuke Iitsuka, Yuuki Kanbe, and Hisatoshi Konishi



4,1-Benzothiazepine 4,1-Benzothiazepine-2-thione *N*-[(2-Chloromethyl)phenyl]formamide Isothiocyanate Isocyanide

2137 Estrogen Receptor α/β Ligands Derived from Thalidomide

Tomomi Noguchi-Yachide,* Kazuyuki Sugita, and Yuichi Hashimoto

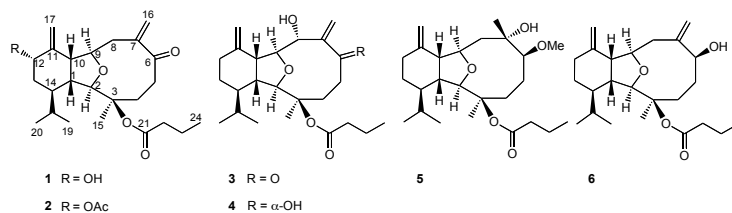


Estrogen Receptor (ER) Thalidomide Phthalimide Skeleton Agonist Antagonist

■ SHORT PAPERS

2149 Cytotoxic Eunicellin-Type Diterpenes from the Soft Coral *Litophyton viscidium*

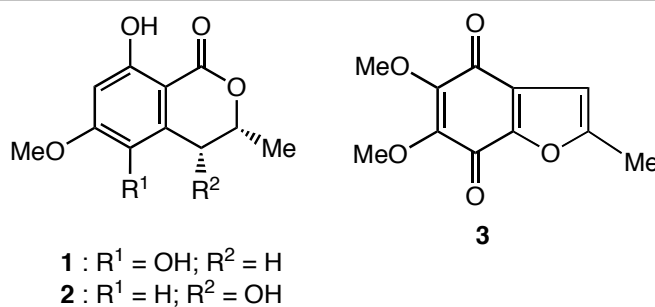
Tetsuo Iwagawa,* Taiki Kusatsu, Keiko Tsuha, Toshiyuki Hamada, Hiroaki Okamura, Tatsuhiko Furukawa, Shin-ichi Akiyama, Matsumi Doe, Yoshiki Morimoto, Fumihito Iwase, and Kaoru Takemura



HL-60 Antiproliferative Activity Structure-Activity Relationship

2157 Aromatic Compounds from Cultured Lichen Mycobionts of Three *Graphis* Species

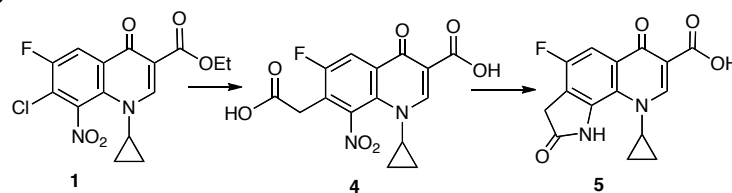
Yukiko Takenaka, Nobuo Hamada, and Takao Tanahashi*



Graphis species Lichen Isolated Mycobiont Isocoumarin Thiophene Derivative

2165 Heterocycles [*h*]-Fused to 4-Oxoquinoline-3-carboxylic Acid. Part IX. Synthesis of 2,6-Dioxotetrahydro-1*h*-pyrrolo [3,2-*h*]quinoline-7-carboxylic Acid

Jalal A. Zahra,* Hala I. Al-Jaber, Mustafa M. El-Abadelah, and Mohammed M. Abadleh



7-Carboxymethyl-8-nitroquinolone Derivative Reductive Lactamization Tricyclic Fluoroquinolone Oxindole Derivative S_NAr Reaction

■ NEW HETEROCYCLIC NATURAL PRODUCTS

- 2177 Polyketides
 - 2179 Aromatics
 - 2186 Terpenes
 - 2194 Steroids
 - 2198 Alkaloids
 - 2205 Miscellaneous
-

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 2209 Polyketides
 - 2213 Aromatics
 - 2214 Terpenes
 - 2215 Alkaloids
 - 2222 Miscellaneous
-

Contributors To This Issue

- 2165 Abadleh, Mohammed M.
1989 Abe, Hitoshi
2079 Ahmed, Fakhruddin Ali
2149 Akiyama, Shin-ichi
2165 Al-Jaber, Hala I.
2041 Araki, Lisa
1953 Blackmore, Timothy R.
2149 Doe, Matsumi
2091 Döndaş, H. Ali
1977 Eguchi, Katsuya
2165 El-Abadelah, Mustafa M.
2127 Enmi, Yoshinori
2011 Falguières, Annie
2011 Ferroud, Clotilde
2041 Fujii, Kensuke
2149 Furukawa, Tatsuhiko
2091 Grigg, Ronald
2011 Guy, Alain
1983 Hagimori, Masayori
2157 Hamada, Nobuo
2149 Hamada, Toshiyuki
2041 Harusawa, Shinya
2137 Hashimoto, Yuichi
2127 Iitsuka, Daisuke
2149 Iwagawa, Tetsuo
2149 Iwase, Fumihito
2011 Joudat, Mounia
2127 Kanbe, Yuuki
2079 Kashiwada, Yoshiki
1977 Kato, Shinya
2079 Kim, Sang-Yong
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2127 Kobayashi, Kazuhiro
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2067 Lai, Yifeng
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2115 Masaki, Yohji
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2001 Nemes, Péter
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2079 Takaishi, Yoshihisa
2149 Takemura, Kaoru
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1953 Thompson, Philip E.
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2149 Tsuha, Keiko
2041 Usami, Yoshihide
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2165 Zahra, Jalal A.
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2057 Zhu, Yong-Ming