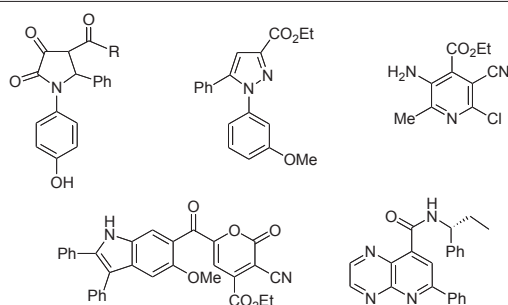


■ REVIEWS

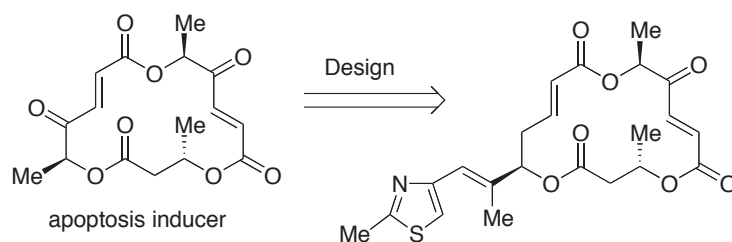
1 Utility of 2,4-Dioxoesters in the Synthesis of New Heterocycles

 Kamal M. Dawood, Hassan Abdel-Gawad,
 Hanan A. Mohamed, and Bakr F. Abdel-Wahab*


2,4-Dioxoester Ethyl 2,4-Dioxoalkanoate Pyrazole Isoxazole Heterocycle

57 Artificial Macrosphelides as a Novel Apoptosis-Inducing Compound

Yuji Matsuya* and Hideo Nemoto

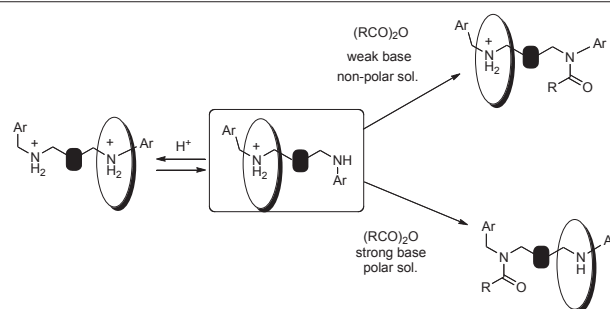


Macrosphelide Ring-Closing Metathesis Thiazole Side-Chain Epothilone Apoptosis

■ COMMUNICATIONS

67 A [2]Rotaxane Containing *N,N*-Dialkylammonium Ion and *N*-Alkylaniline Centers. Translational Isomerism, and Specific *N*-Acylation

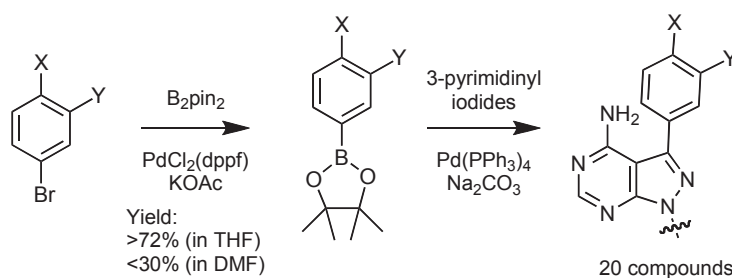
Yuji Tokunaga,* Masanori Kawabata, Yuji Yamauchi, and Naoki Harada



Rotaxane Hydrogen-Bonding Ammonium Anilinium Acylation

73 An Improved Synthesis of Arylboronates toward Twenty Novel 1,3-Disubstituted 4-Amino-1*H*-pyrazolo[3,4-*d*]pyrimidine Analogs

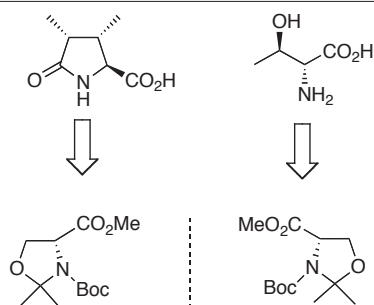
Masato Oikawa*


 1*H*-Pyrazolo[3,4-*d*]pyrimidine Protein Kinase Inhibitor Suzuki-Miyaura Cross-Coupling Reaction Arylboronate

■ PAPERS

79 Synthetic Studies on Callipeltins: Stereoselective Syntheses of (3*S*,4*R*)-3,4-Dimethyl-L-pyroglutamic Acid and Fmoc-D-allothreonine from Serine Derivatives

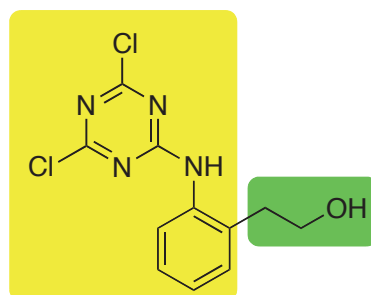
Hiroyuki Konno,* Yoko Takebayashi, Kazuto Nosaka, and Kenichi Akaji



Unusual Amino Acid Callipeltin Cyclic Depsipeptide Anit-HIV Activity Marine Sponge

91 The Synthesis of Novel 2,4,6-Trisubstituted 1,3,5-Triazines: A Search for Potential MurF Enzyme Inhibitors

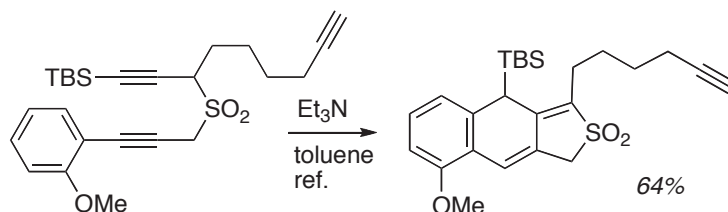
Izidor Sosič, Bogdan Štefane,* Andreja Kovač, Samo Turk, Didier Blanot, and Stanislav Gobec*



Peptidoglycan 1,3,5-Triazine Virtual Screening MurF Enzyme

117 Exploration of Braverman Reaction Chemistry. Synthesis of Tricyclic Dihydrothiophene Dioxide Derivatives from Bispropargyl Sulfones

Ken S. Feldman* and Brandon R. Selfridge

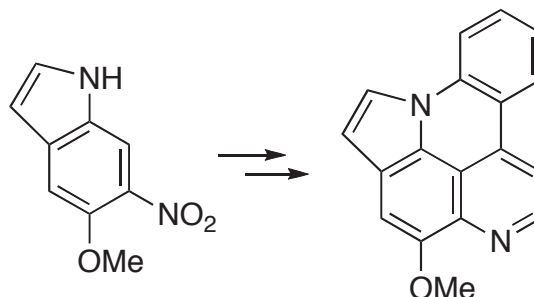


Braverman Reaction Allene Sulfone Diradical Cyclization

■ NOTES

145 Synthesis of Arnoamine B

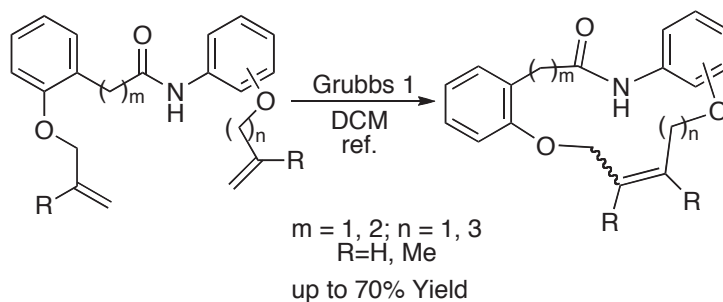
Shinsuke Nakahara,* Toshiyuki Sadachi, and Akinori Kubo



Arnoamine B Pyridoacridine Ring Microwave Intramolecular Radical Cyclization

149 A Synthetic Study of Dibenzo-Aromatic Macrolactams

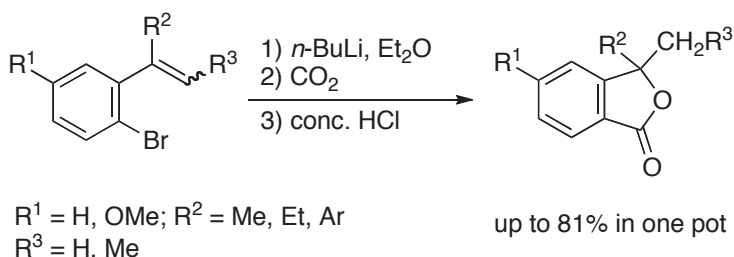
David P. Brown* and Thomas Wong



Macrocyclization Macrocycle Amide Ring-Closing Reaction Olefin Metathesis

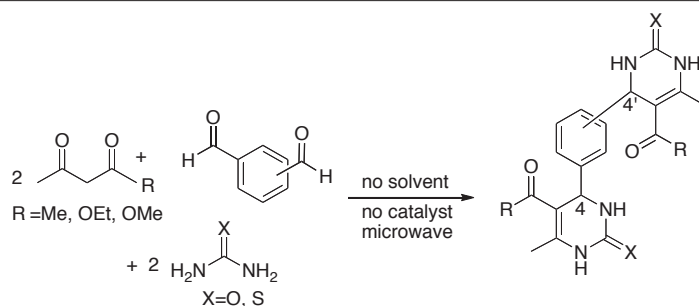
163 New, Facile Synthesis of 3,3-Disubstituted Phthalides Based on the Reaction of α -Substituted 2-Lithiostyrenes with Carbon Dioxide

Kazuhiro Kobayashi,* Taketoshi Kozuki, Shuhei Fukamachi, and Hisatoshi Konishi


 Phthalide Isobenzofuran-1(3*H*)-one 2-Lithiostyrene Carbon Dioxide Lactonization

171 A Non-Catalyst Method for the Synthesis of Bis-4-aryl-3,4-dihydropyrimidones (thiones) under Solvent-Free Conditions

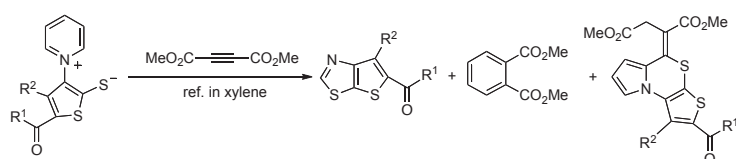
Chhanda Mukhopadhyay* and Arup Datta



Bisdihydropyrimidone Solvent-Free Microwave Green Methodology Catalyst-Free

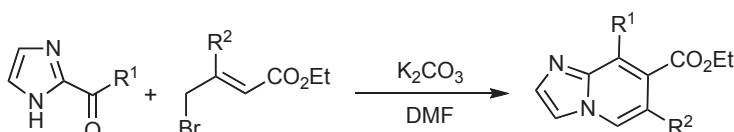
175 Preparation of New Nitrogen-Bridged Heterocycles. 68. One-Pot Synthesis of 4-Substituted 5-Acylthieno[3,2-*d*]thiazole Derivatives

Akikazu Kakehi,* Hiroyuki Suga, Yukihiisa Okumura, and Takashi Nishi


 Thieno[3,2-*d*]thiazole Synthesis 3-(1-Pyridinio)thiophene-2-thiolate Dimethyl Acetylenedicarboxylate X-Ray Analysis

185 Facile Synthesis of Imidazo[1,2-*d*]pyridines *via* Tandem Reaction

Jiong Jia, Yan-Qing Ge, Xu-Tang Tao,* and Jian-Wu Wang*


 Cyclization α,β -Unsaturated Ester One-Pot Reaction Mechanism Nitrogen-Bridged Heterocycle

■ NEW HETEROCYCLIC NATURAL PRODUCTS

- 195 Polyketides
 - 199 Aromatics
 - 207 Terpenes
 - 226 Steroids
 - 227 Alkaloids
 - 240 Miscellaneous
-

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 241 Polyketides
 - 245 Aromatics
 - 248 Terpenes
 - 249 Alkaloids
 - 255 Miscellaneous
-

■ ADDITIONS AND CORRECTIONS

- 257 **Heteroarylamination and Heteroarylsulfidation of 2-Chloro-1-azaazulenes**
Eiko Yoshioka, Kazuya Koizumi, Shinya Yamazaki, Hiroyuki Fujii, and Noritaka Abe*
 - 258 **Synthesis of Halogenated 4*H*-Pyrido[1,2-*a*]pyrimidin-4-ones**
Annamária Molnár, Ferenc Faigl, Benjamin Podányi, Zoltán Finta, László Balázs, and István Hermecz*
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