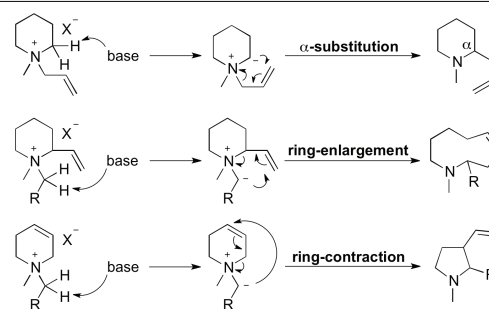


■ REVIEW

793 Ring-Substitution, Enlargement, and Contraction by Base-Induced Rearrangements of *N*-Heterocyclic Ammonium Salts

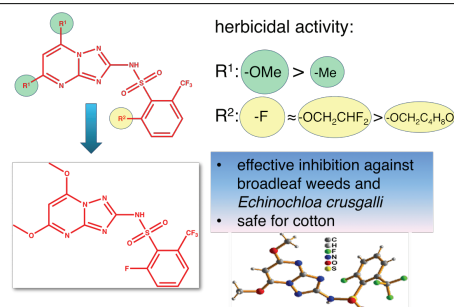
Eiji Tayama*


 Rearrangement Reaction Ammonium Ylide Ammonium Salt *N*-Heterocycle

■ PAPERS

829 Synthesis, Crystal Structure and Herbicidal Activity of a Series of [1,2,4]Triazolo[1,5-*a*]pyrimidine-2-sulfonamide Compounds

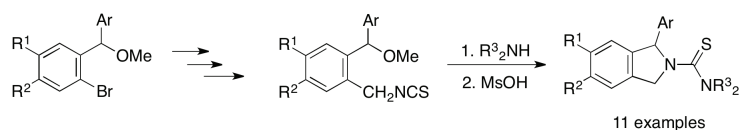
Yi-Chao Ma, Ying-Hui Yu, Guang-Feng Hou,* Ji-Han Huang, and Jin-Sheng Gao*



Synthesis Crystal Structure Triazolopyrimidine Sulfonamide Herbicidal Activity

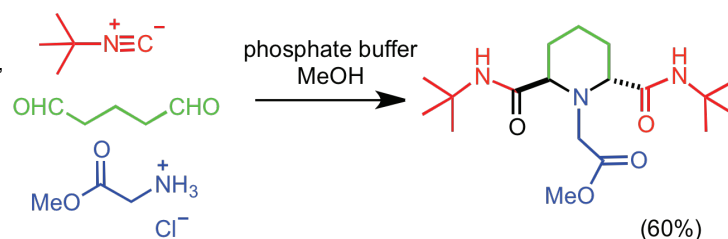
844 Synthesis of *N,N*-Disubstituted 1-Aryl-1,3-dihydro-2*H*-isoindole-2-carbothioamides

Kazuhiro Kobayashi,* Yuuho Shigemura, and Miyuki Tanmatsu


 1,3-Dihydro-2*H*-isoindole-2-carbothioamide 2-[Aryl(methoxy)methyl]phenyllithium Isothiocyanate Thiourea Benzyl Azide

857 Synthesis of *trans*-2,6-Piperidinedicarboxamide Using the Ugi Reaction. A Plausible Model for the Biosynthesis of Halichonadin P

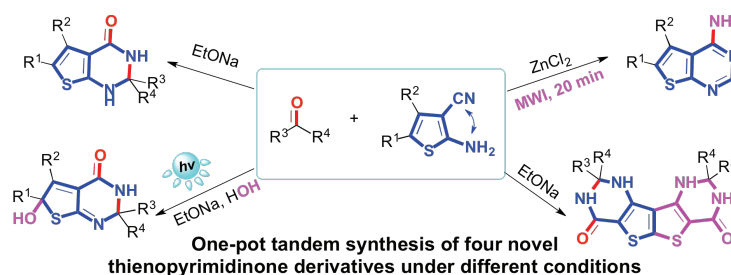
Rika Mimura, Ayumi Kitamori, Keiji Nakano, Hiyoshizo Kotsuki, Kenji Matsumoto, Daisuke Kaneno, Toshiya Masuda, and Yoshiyasu Ichikawa*



Ugi Reaction Isocyanide Marine Natural Product Piperidine Terpene

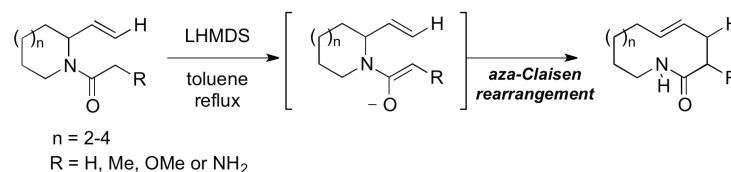
866 Efficient Constructions of the Four Different Thienopyrimidinone Skeletons via Various Cyclocondensation of *o*-Aminothionitrile with Carbonyl Compounds

Junjuan Yang, Daxin Shi, Kai Zhang, Zhangtao Zhao, Fadong Qiu, Yujiao Bi, Qi Zhang, and Jiarong Li*


o-Aminothionitrile Thieno[2,3-*d*]pyrimidinone Symmetrical Tetracycle Thienothiophene Thienopyrimidine

886 Studies on the aza-Claisen Rearrangement of 7 to 9-Membered Vinylazacycles

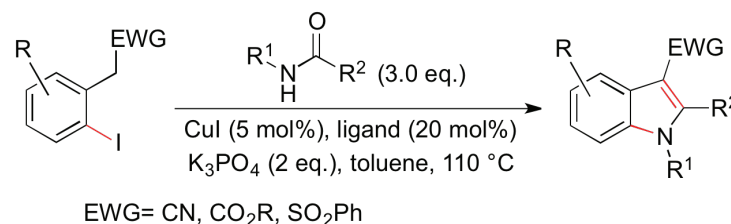
Seok-Ho Kim, Won-Il Lee, Seon-Mi Kim, Jae-Kyung Jung, Jaebong Jang, Jaehoon Sim, Jong-Wha Jung,* and Young-Ger Suh*



aza-Claisen Rearrangement Reaction [3,3]-Sigmatropic Rearrangement Reaction Macrolactam

900 Development of Madelung-Type Indole Synthesis Using Copper-Catalyzed Amidation/Condensation Strategy

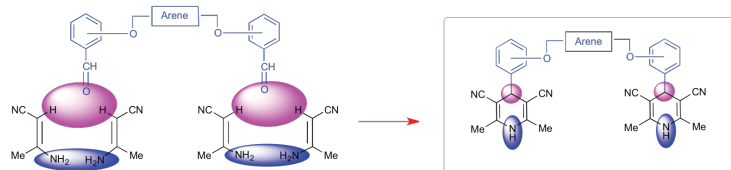
Masahiro Abe, Charline Denneval, Kanako Nozawa-Kumada, and Yoshinori Kondo*



Indole Synthesis Copper Catalyzed Reaction Amidation Reaction Cyclization Reaction Madelung Reaction

910 Microwave Assisted Multi-Component Synthesis of Novel Bis(1,4-dihydropyridines) Based Arenes or Heteroarenes

Sherif M. H. Sanad, Refaie M. Kassab, Ismail A. Abdelhamid,* and Ahmed H. M. Elwahy*

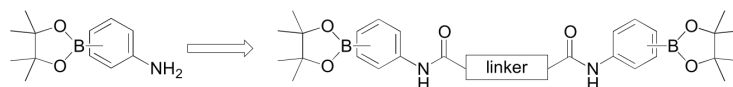


Cyclocondensation Reaction Alkylation Reaction Bis(aldehyde) Bis(1,4-dihydropyridine-3,5-dicarbonitrile)

■ SHORT PAPERS

925 Novel Twin-Drug Type C₂-Symmetrical Phenylboronic Acid Pinacol Esters

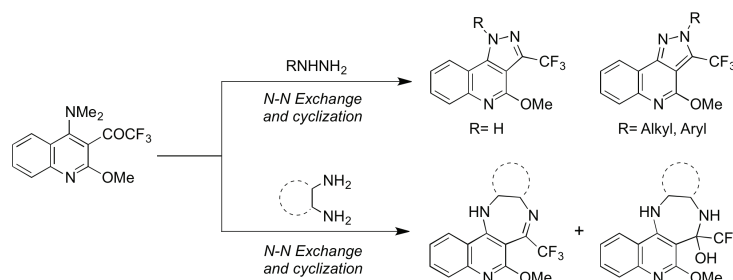
Makoto Furutachi, Ayumi Ejima, Reika Tsuru, Saho Goto, Toshiaki Gondo, Kenta Ako, Saya Fujii, Arisa Okumura, Ayumi Tozuka, Kazumi Yokomizo, Jian-Rong Zhou, Hiroshi Inao, Yutaro Ono, Nobuhiro Kashige, Fumio Mlake, and Kunihiro Sumoto*



Twin-Drug C₂-Symmetrical Bivalent Molecule Cyclic Phenylboronic Acid Ester Pinacol Ester Synthesis

936 Facile Syntheses of Fluorine-Containing 4-Methoxy-pyrazolo[4,3-c]quinolines and 6-Methoxy-1,4-diazepino-[6,5-c]quinolines

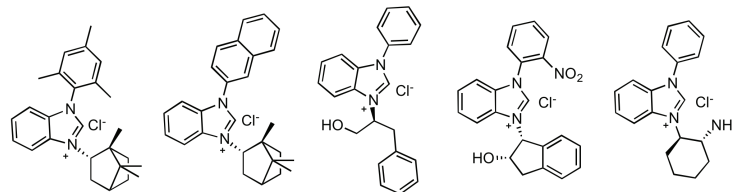
Mizuki Hatakenaka, Satoru Adachi, and Etsuji Okada*



Pyrazoloquinoline Diazepinoquinoline Chemoselective Substitution Intramolecular Cyclization Fluorine-Containing Heterocycle

944 Facile Synthesis of Chiral Benzimidazolium Salts and the Application in Asymmetric Catalytic Borylation

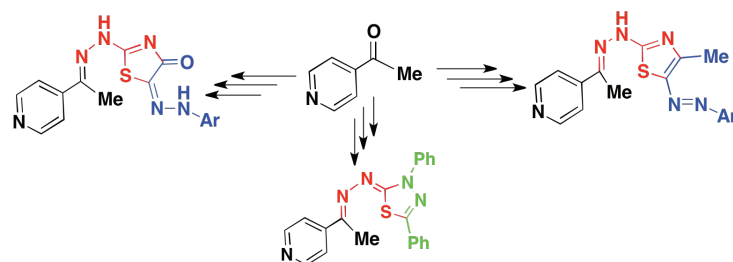
Jie Zhou, Xiaohui Liu, and Zhihua Sun*



Chiral Benzimidazolium Salt Asymmetric Catalytic Reaction Synthetic Method

954 Synthesis of Some Novel Thiazole, Thiadiazole and 1,4-Phenylene-bis-thiazole Derivatives as Potent Antitumor Agents

Sobhi M. Gomha,* Fathy M. Abdelrazek, Aly H. Abdelrahman, and Peter Metz



4-Acetylpyridine Cyclocondensation Reaction Arylazothiazole 1,3,4-Thiadiazole 1,4-Phenylene-bis-thiazole

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 969 Polyketides
 - 973 Aromatics
 - 976 Terpenes
 - 979 Alkaloids
 - 991 Miscellaneous
-

■ BRUSH UP YOUR HETEROCYCLES

- 993 Brush Up Your Heterocycles
-

**Contributors
To This Issue**

- 910 Abdelhamid, Ismail A.
954 Abdelrahman, Aly H.
954 Abdelrazek, Fathy M.
900 Abe, Masahiro
936 Adachi, Satoru
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866 Bi, Yujiao
900 Denneval, Charline
925 Ejima, Ayumi
910 Elwahy, Ahmed H. M.
925 Fujii, Saya
925 Furutachi, Makoto
829 Gao, Jin-Sheng
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925 Goto, Saho
936 Hatakenaka, Mizuki
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886 Jung, Jong-Wha
857 Kaneno, Daisuke
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886 Kim, Seok-Ho
886 Kim, Seon-Mi
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844 Kobayashi, Kazuhiro
900 Kondo, Yoshinori
857 Kotsuki, Hiyoshizo
886 Lee, Won-Il
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829 Ma, Yi-Chao
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925 Okumura, Arisa
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886 Suh, Young-Ger
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944 Sun, Zhihua
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793 Tayama, Eiji
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866 Zhang, Kai
866 Zhang, Qi
866 Zhao, Zhangtao
925 Zhou, Jian-Rong
944 Zhou, Jie