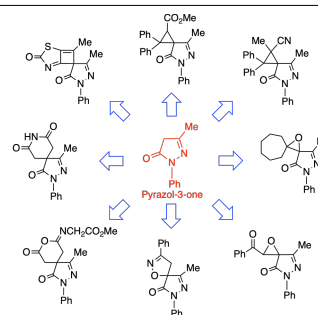


■ REVIEW

623 Spiro Heterocycles: Synthesis and Application of Spiro Pyrazol-3-one Derivatives

Eiichi Masumoto and Hiroshi Maruoka*

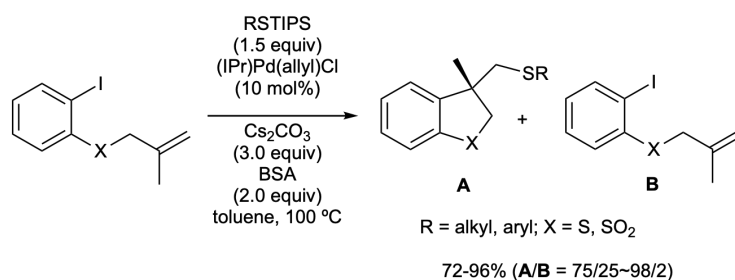


Pyrazole Spiro Cyclopropane Oxirane Isoxazoline

■ COMMUNICATION

655 Preparation of 2,3-Dihydrobenzo[*b*]thiophene Bearing Benzylic Quaternary Carbon by Palladium-Catalyzed Cascade Reaction

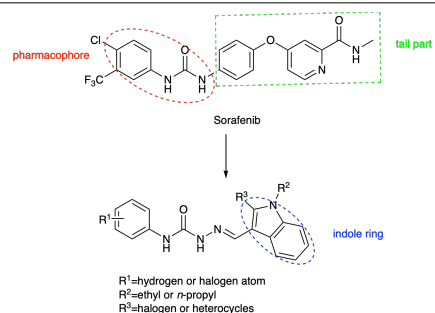
Yosuke Hosoya, Honoka Yasukochi, Kota Mizoguchi, and Masahisa Nakada*


 2,3-Dihydrobenzo[*b*]thiophene Benzylic Quaternary Carbon Palladium Cascade Reaction Catalytic Reaction

■ PAPERS

667 Design, Synthesis and Biological Evaluation of Novel Indole-Containing Sorafenib Derivatives

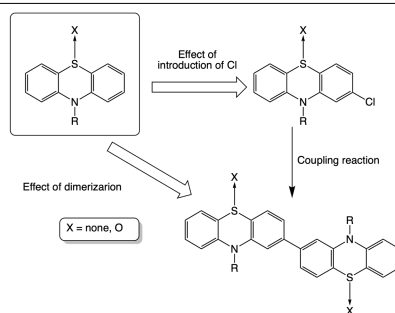
Sili Fan, Yihong Fu, Siyu Tang, Danping Chen, Zhurui Li, Chengpeng Li, Lihui Shao, Zhenchao Wang,* and Guiping Ouyang*



Indole Antiproliferative Activity Apoptosis

689 Chemical Modifications of *N,N*-Dimethylalkylamino-Substituted 2-Chlorophenothiazine and Their Electrochemical Behavior

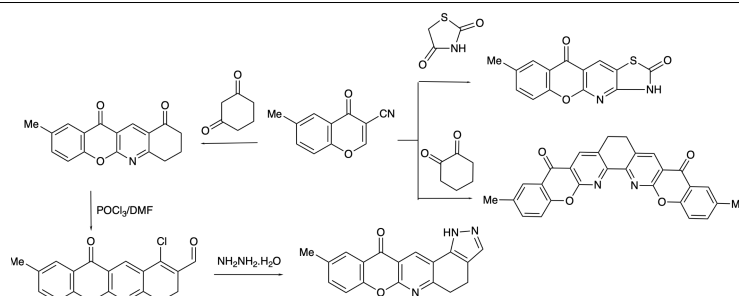
Hideki Hayashi,* Tadashi Ogawa, and Take-aki Koizumi



Phenothiazine Optical Property Electrochemical Property Subject Effect Coupling Reaction

707 Novel Heteroannulated Chromeno[2,3-*b*]pyridines and Related Compounds Using 6-Methylchromone-3-carbonitrile

Magdy A. Ibrahim* and Al-Shimaa Badran


 Chromeno[2,3-*b*]pyridine (Bischromeno)phenanthroline Chromeno[2,3-*b*]quinoline Cyclic β -Chloroaldehyde Cyclocondensation

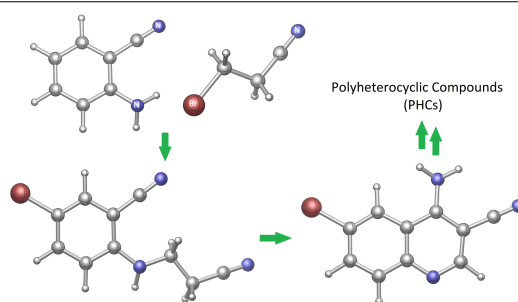
723 Mechano-Biocatalytic Rapid Synthesis of 2-Amino-3-cyano-4*H*-pyran Derivatives

Ling Jiang, Qingqing Lu, Jingwen Dong, and Xiaohe Chu*


 2-Amino-3-cyano-4*H*-pyran Ball-Milling Bovine Serum Albumin

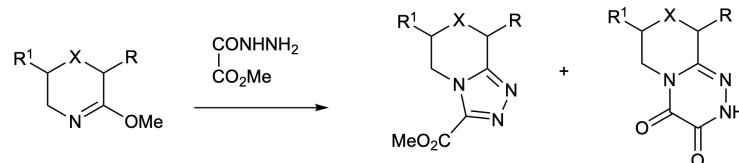
739 A New and Convenient Synthetic Method for 4-Aminoquinoline-3-carbonitrile and Its Derivatives

Amer Tarawneh*


 4-Aminoquinoline-3-carbonitrile Thorpe-Ziegler Cyclization Mono *N*-Alkylation Aromatization Enaminonitrile

751 Alicyclic Annulated Triazoles versus Triazinediones by the Reaction of Cyclic Imidates with Methyl 2-Hydrazinyl-2-oxoacetate

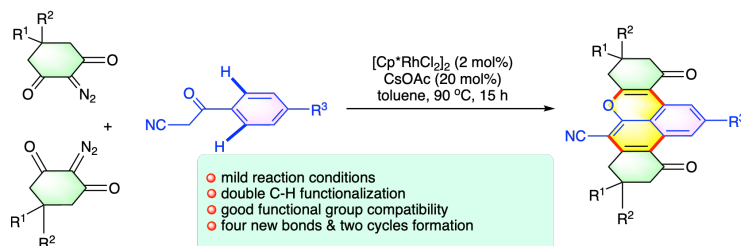
Viacheslav Lysenko, Anton Portiankin, Kostiantyn Nazarenko, Kostiantyn Shvydenko, Tetiana Shvydenko, and Aleksandr Kostyuk*



Cyclic Imidate Annulated 1,2,4-Triazine-5,6-dione Annulated Triazole

764 Rh(III)-Catalyzed Cascade C-H Activation/Annulation of Cyclic 2-Diazo-1,3-diketones with Benzoylacetonitriles to Polycyclic Benzo[de]chromenes

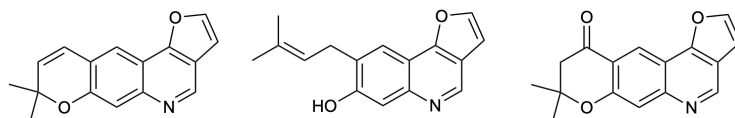
Lili Yuan, Lanlan Zhang, Youpeng Zuo, Guang Han, Xinwei He,* and Yongjia Shang*



Annulation Benzo[de]chromene C-H Activation Cascade Reaction Diazo Compound

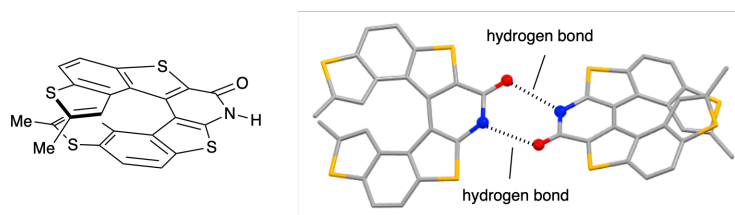
SHORT PAPERS
777 Three New Quinoline Alkaloids from the Whole Plant of *Thalictrum atriplex* and Their Bioactivities

Qiu-Fen Hu, Ling-Fang Zhang, Bing-Biao Cai, Yong Li, Hua-Shun Wang, Hao-Cheng Cai, Ming-Xin Liu, Yin-Ke Li,* and Wen Xiong*


 Quinoline Alkaloid *Thalictrum atriplex* Anti-Rotavirus Activity Antibacterial Activity

786 Synthesis of Amide-Functionalized Thia[7]helicene-Like Molecule and Its Supramolecular Assembly in the Solid State

Takumi Inoue, Shohei Hamada, Rina Nakamura, Yusuke Kobayashi, Takahiro Sasamori, and Takumi Furuta*

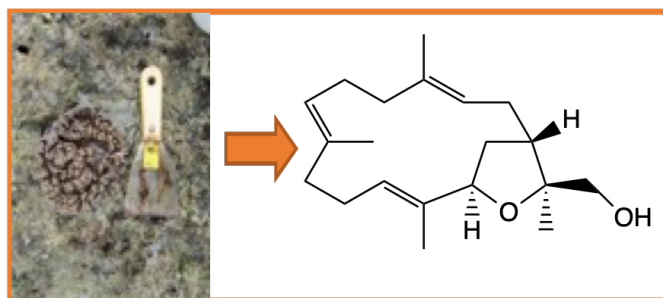


Association via hydrogen-bonding interactions & columnar aggregation in the solid state

Thiahelicene Amide Hydrogen-Bonding Interaction

797 Unusual Cembrane Diterpenoid Isolated from the Japanese Soft Coral Genus *Sinularia*

Takahiro Ishii, Kosuke Sato, Ginji Ito, Jin Kawano, Wakako Takabe, Chin-Soon Phan, Shinnosuke Ishigami, and Takashi Kamada*


 Soft Coral *Sinularia* Diterpenoid Cembrane Cytotoxicity

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 805 Polyketides
 - 807 Aromatics
 - 810 Terpenes
 - 812 Steroids
 - 813 Alkaloids
 - 824 Miscellaneous
-

■ BRUSH UP YOUR HETEROCYCLES

- 827 Brush Up Your Heterocycles
-
-

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