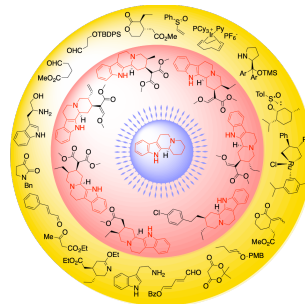


■ REVIEWS

1617 **A Review on Indole[2,3-a]quinolizidine: The Synthetic Approaches to the Development of Bioactive Indolo[2,3-a]-quinolizidine Scaffolds**

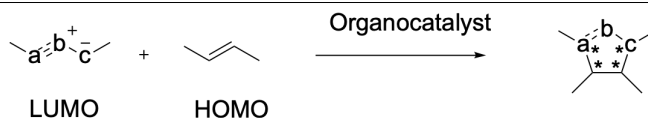
Shivangi Sharma, Yukti Monga, Ashu Gupta, and Shivendra Singh*



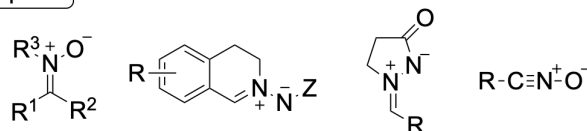
Indolo[2,3-a]quinolizidine Heterocycle Synthesis Bioactivity Alkaloid

1649 **Asymmetric Inverse-Electron-Demand 1,3-Dipolar Cycloadditions Using Organocatalysts**

Hiroyuki Suga* and Yasunori Toda



1,3-Dipoles

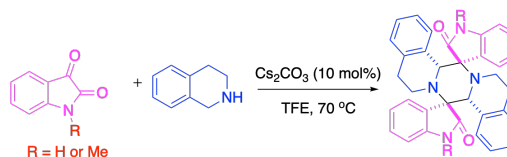


1,3-Dipolar Cycloaddition Inverse-Electron-Demand Cycloaddition Organocatalyst Enantioselective Cycloaddition

■ COMMUNICATION

1687 **Highly Diastereoselective Self-1,3-Dipolar [3+3] Cycloaddition of Azomethine Ylides Promoted by Cesium Catalyst**

Hai Ren,* Xiong-Jiang Li, Wei Wu, Jun Shi, and Jun-Rong Song*



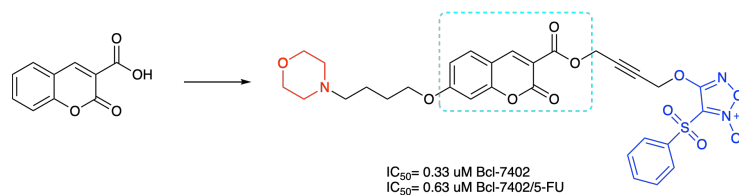
up to 95% yield, >99/1 dr

▽ easily available catalyst ▽ operational simple ▽ N-free isatin tolerated ▽ high diastereoselectivity

Azomethine Ylide Cycloaddition

■ PAPER

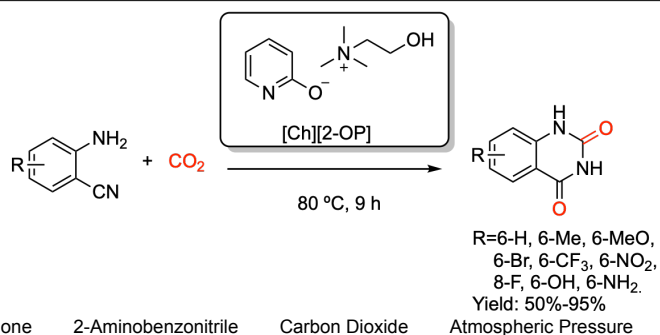
- 1695 **A Series of Novel Coumarin Derivatives: Design, Synthesis and Evaluation of Anti-Tumor Activity**
Zhuo Zhang, Bing He, Fei-Yang Shang, and Li-Qin He*



Coumarin Nitric Oxide (NO) Furoxan Synthesis Antitumor

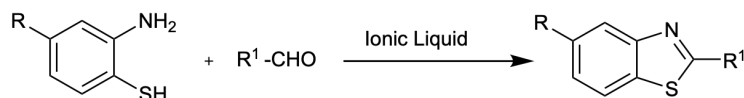
■ SHORT PAPERS

- 1711 **Efficient Synthesis of Quinazoline-2,4(1*H*,3*H*)-diones from 2-Aminobenzonitriles and CO₂ Catalyzed by 2-Hydroxypyridine Anion-Based Ionic Liquid at Atmospheric Pressure**
Lele Li, Jiayi Jin, Wanyao Hu, Jiayi Huang, and Qi Feng*



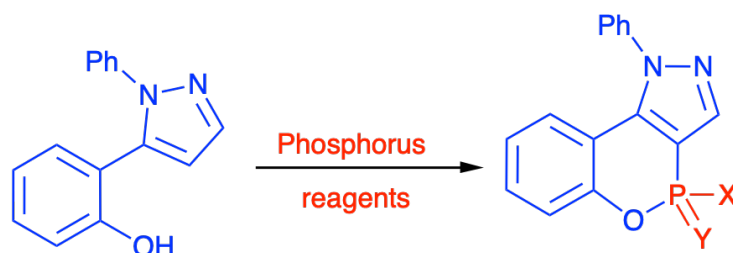
2-Hydroxypyridine Anion-Based Ionic Liquid Quinazoline-2,4(1*H*,3*H*)-dione 2-Aminobenzonitrile Carbon Dioxide Atmospheric Pressure

- 1723 **An Efficient Route for the Synthesis of 2-Arylbenzothiazoles in an Ionic Liquid, Using Ultrasound Irradiation**
Xiaofeng Yu,* Xiaorui Duan, Tao Wang, and Feng Wang



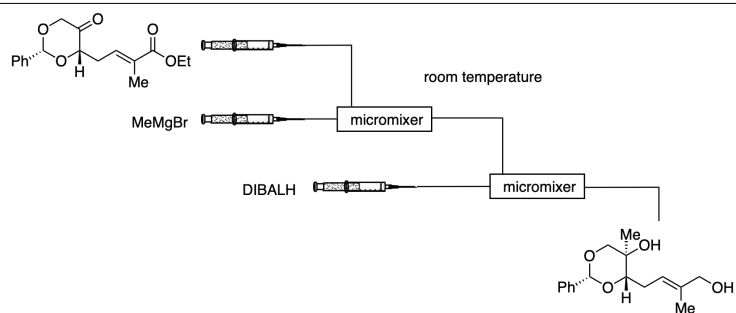
Ionic Liquid 2-Arylbenzothiazole

- 1732 **A Convenient One-Pot Synthesis of Novel 1,4-Dihydro-1,2-benzoxaphosphinino[4,3-*c*]pyrazoles**
Tarik E. Ali* and Mohammed A. Assiri



Pyrazole 1,2-Benzoxaphosphinino[4,3-*c*]pyrazole Synthesis One-Pot

- 1741 Large-Scale Synthesis of the Key Intermediates of Tetrahydropyran Derivatives under Flow Conditions**
Keitaro Umeno, Hiroshi Yamaguchi, Tatsuya Teshigawara, Yoko Yasuno, and Tohru Oishi*



Polyether Natural Product Tetrahydropyran Derivative Microflow Reactor Large-Scale Synthesis Continuous Methylation and Reduction

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 1751 Polyketides
1753 Aromatics
1754 Terpenes
1757 Alkaloids
1763 Miscellaneous

■ BRUSH UP YOUR HETEROCYCLES

- 1765 Brush Up Your Heterocycles

Contributors To This Issue

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1732 Assiri, Mohammed A.
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