

## AIMS AND SCOPE

Although total synthesis reached extraordinary levels of sophistication in the last century, the development of practical and efficient synthetic methodologies is still in its infancy. The goal of achieving chemical reactions that are economical, safe, environmentally benign, resource- and energy-saving will demand the highest level of scientific creativity, insight and understanding in a combined effort by academic and industrial chemists.

*Advanced Synthesis & Catalysis* is designed to stimulate and advance that process by focusing on the development and application of efficient synthetic methodologies and strategies in organic, bioorganic, pharmaceutical, natural product, macromolecular and materials chemistry. The targets of synthetic studies can range from natural products and pharmaceuticals to macromolecules and organic materials. While metal catalysis, biocatalysis and organocatalysis play an ever increasing role in achieving synthetic efficiency, all areas of interest to the practical synthetic chemist fall within the purview of *Advanced Synthesis & Catalysis*, including synthesis design, reaction techniques, separation science and process development.

Contributions from industrial and governmental laboratories are highly encouraged. It is the goal of the journal to help initiate a new era of chemical science, based on the efforts of synthetic chemists and on interdisciplinary collaboration, so that chemistry will make an even greater contribution to the quality of life than it does now.

# Advanced Synthesis & Catalysis

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2007, 349, 13, Pages 2069–2200

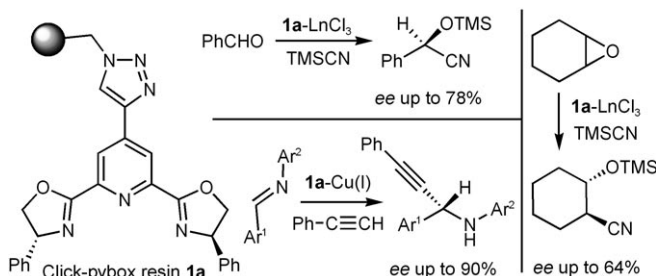
Issue 11 + 12/2007 was published online on August 6, 2007

## COMMUNICATIONS

Polymer-Bound Pyridine-Bis(oxazoline). Preparation through Click Chemistry and Evaluation in Asymmetric Catalysis

*Adv. Synth. Catal.* **2007**, 349, 2079–2084


 Mélanie Tilliet, Stina Lundgren, Christina Moberg,\*  
Vincent Levacher\*

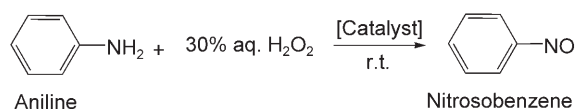


2079

Tungsten- and Molybdenum-Based Coordination Polymer-Catalyzed *N*-Oxidation of Primary Aromatic Amines with Aqueous Hydrogen Peroxide

*Adv. Synth. Catal.* **2007**, 349, 2085–2088


 Ankur Bordoloi, S. B. Halligudi\*

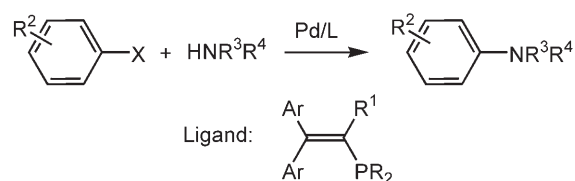


2085

A Novel (2,2-Diarylvinyl)phosphine/Palladium Catalyst for Effective Aromatic Amination

*Adv. Synth. Catal.* **2007**, 349, 2089–2091

 Ken Suzuki,\* Yoji Hori, Takenobu Nishikawa,  
Tohru Kobayashi

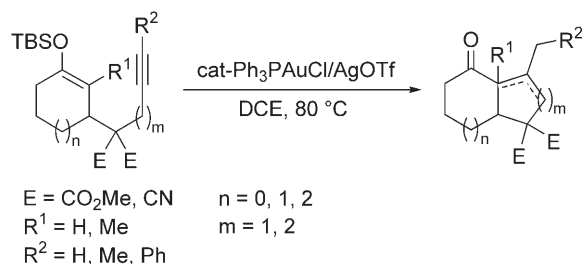


2089

- 2092** Gold-Catalyzed 5- and 6-*exo-dig* Selective Cyclizations of Alkynyl Silyl Enol Ethers: Efficient Method for [3+2] and [4+2] Annulations onto  $\alpha,\beta$ -Enones


*Adv. Synth. Catal.* **2007**, 349, 2092–2096

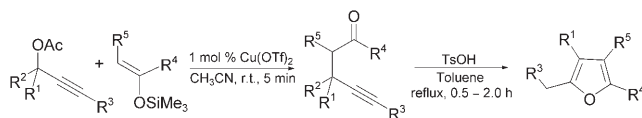
 Kooyeon Lee, Phil Ho Lee\*



- 2097** Copper(II) Triflate-Catalyzed Nucleophilic Substitution of Propargylic Acetates with Enoxysilanes. A Straightforward Synthetic Route to Polysubstituted Furans

*Adv. Synth. Catal.* **2007**, 349, 2097–2102


 Zhuang-ping Zhan,\* Shao-pei Wang, Xu-bin Cai,  
Hui-juan Liu, Jing-liang Yu, Yuan-yuan Cui

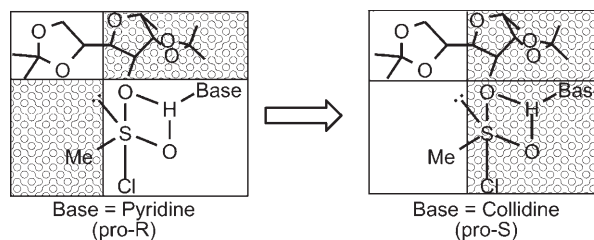


## FULL PAPERS

- 2103** How does the Achiral Base Decide the Stereochemical Outcome in the Dynamic Kinetic Resolution of Sulfinyl Chlorides? A Computational Study


*Adv. Synth. Catal.* **2007**, 349, 2103–2110

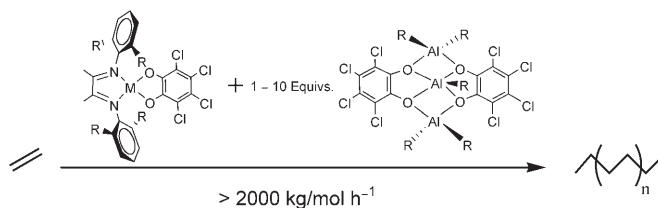
 David Balcells, Gregori Ujaque, Inmaculada Fernández,  
Noureddine Khiar, Feliu Maseras\*



- 2111** Integrating Catalyst and Co-Catalyst Design in Olefin Polymerization Catalysis: Transferable Dianionic Ligands for the Activation of Late Transition Metal Polymerization Catalysts


*Adv. Synth. Catal.* **2007**, 349, 2111–2120

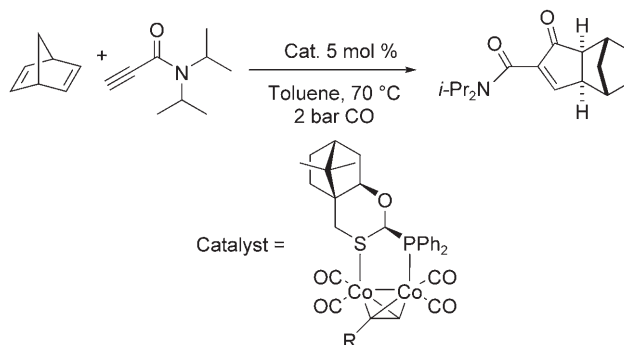
 Mikael Brasse, Juan Cámpora,\* Maxwell Davies,  
Emmanuelle Teuma, Pilar Palma, Eleuterio Álvarez, E. Sanz,  
Manuel L. Reyes



- 2121** PuPHOS and CamPHOS Ligands in the Intermolecular Catalytic Pauson–Khand Reaction


*Adv. Synth. Catal.* **2007**, 349, 2121–2128

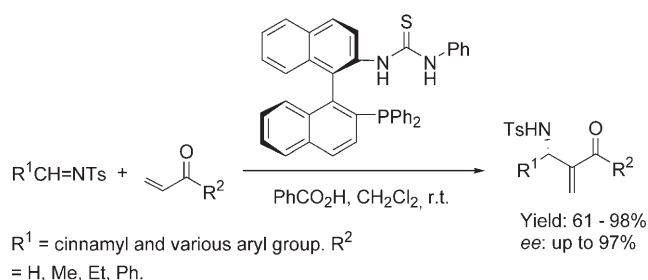
 Agustí Lledó, Jordi Solà, Xavier Verdaguer,\* Antoni Riera,\*  
Miguel A. Maestro



### Chiral Thiourea-Phosphine Organocatalysts in the Asymmetric Aza-Morita–Baylis–Hillman Reaction

*Adv. Synth. Catal.* **2007**, 349, 2129–2135


 Yong-Ling Shi, Min Shi\*

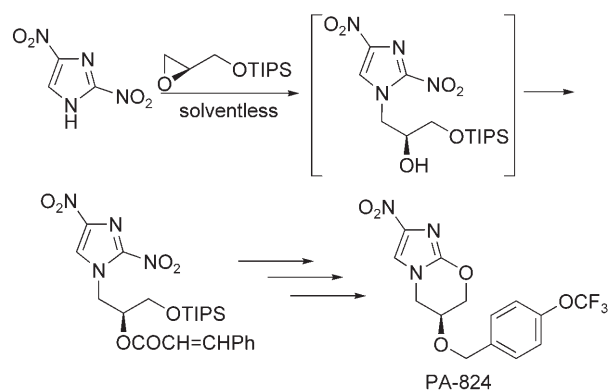


2129

### Integration of Solventless Reaction in a Multi-Step Process: Application to an Efficient Synthesis of PA-824

*Adv. Synth. Catal.* **2007**, 349, 2136–2144

 Akihiro Orita, Kai Miwa, Genta Uehara, Junzo Otera\*




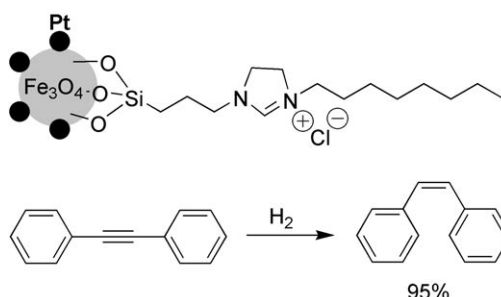
Total amount of solvents reduced to less than 1/3.

2136

### Platinum Nanoparticles Supported on Ionic Liquid-Modified Magnetic Nanoparticles: Selective Hydrogenation Catalysts

*Adv. Synth. Catal.* **2007**, 349, 2145–2150


 Raed Abu-Reziq, Dashan Wang, Michael Post, Howard Alper\*



2145

### Gold(III) Chloride/Silver Triflate: A Highly Efficient Catalyst for Ring-Opening Reaction of Aziridines with Electron-Rich Arenes

*Adv. Synth. Catal.* **2007**, 349, 2151–2155


 Xiaoyu Sun, Wei Sun, Renhua Fan,\* Jie Wu\*

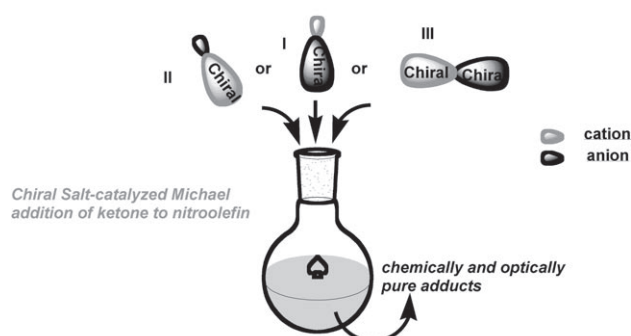


2151

### A Chiral Functionalized Salt-Catalyzed Asymmetric Michael Addition of Ketones to Nitroolefins

*Adv. Synth. Catal.* **2007**, 349, 2156–2166

 Yan Xiong, Yuehong Wen, Fei Wang, Bo Gao, Xiaohua Liu, Xiao Huang, Xiaoming Feng\*

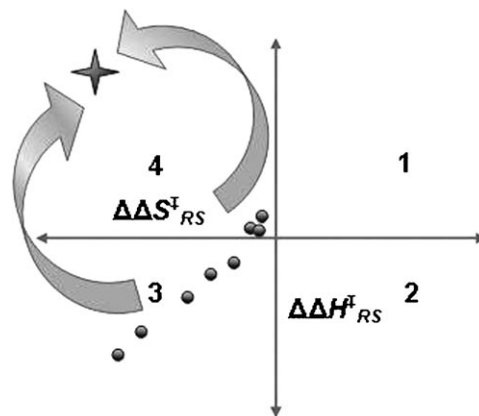


2156

- 2167** Cross-Linked Amorphous Nitrilase Aggregates for Enantioselective Nitrile Hydrolysis

*Adv. Synth. Catal.* **2007**, 349, 2167–2176

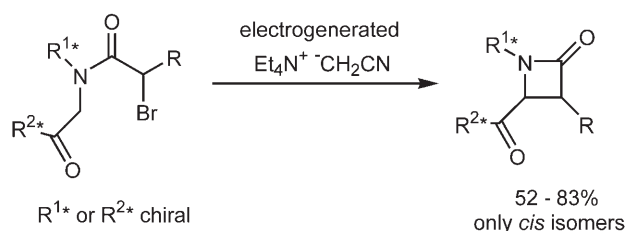
Praveen Kaul, Andreas Stolz, U. C. Banerjee\*



- 2177** Synthesis of  $\beta$ -Lactams by 4-*exo-tet* Cyclization Process Induced by Electrogenerated Cyanomethyl Anion, Part 2: Stereochemical Implications

*Adv. Synth. Catal.* **2007**, 349, 2177–2181

Marta Feroci\*

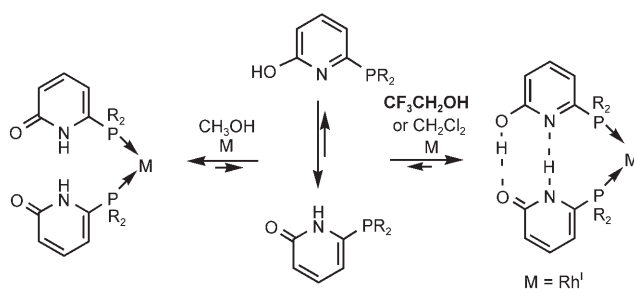


## UPDATES

- 2183** Fluorinated Alcohols as Solvents for Enantioselective Hydrogenation with Chiral Self-Assembling Rhodium Catalysts

*Adv. Synth. Catal.* **2007**, 349, 2183–2187

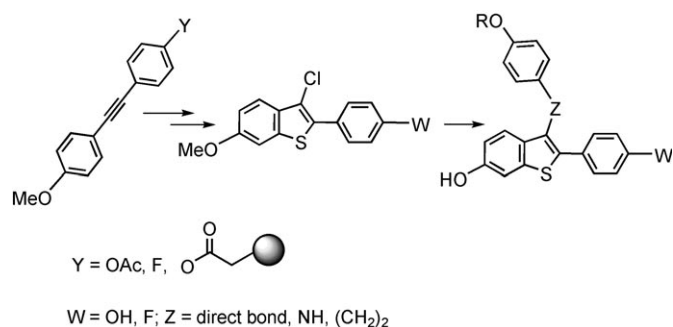
Natalia V. Dubrovina,\* Ivan A. Shuklov, Mandy-Nicole Birkholz, Dirk Michalik, Rocco Paciello, Armin Börner\*



- 2188** 2,3-Disubstituted Benzo[*b*]thiophenes from Diarylalkynes via Electrophilic Addition-Cyclization and Palladium-Catalyzed Cross-Coupling

*Adv. Synth. Catal.* **2007**, 349, 2188–2194

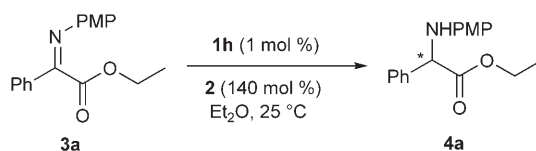
Giuseppe Lamanna, Stefano Menichetti\*



**CORRIGENDUM**

In the paper by Q. Kang, Z.-A. Zhao and S.-L. You in Issue 10, 2007, pp. 1657–1660 (DOI: 10.1002/adsc.200700235), the formulae for Tables 3 and 4 are not correct. The corrected formulae are given below.

For Table 3:



For Table 4:

