

PII  
S 98/02

# SYNLETT

Accounts and Rapid Communications in Synthetic Organic Chemistry

## Synpacts

*H. Wu, R.-R. Liu, Y.-X. Jia*  
Asymmetric Friedel–Crafts Alkylation  
Reaction in the Construction of  
Trifluoromethylated All-Carbon  
Quaternary Stereocenters

*H.-Y. Tao, C.-J. Wang*  
A Facile Access to Piperidine  
Derivatives via Copper(I)-Catalyzed  
1,3-Dipolar [6+3] Cycloadditions  
of Azomethine Ylides with Fulvenes

## Accounts

*L. F. Silva Jr.*  
Adventures in Ring-Contraction  
Reactions

*L. Beverina, M. Sassi*  
Twists and Turns Around a Square:  
The Many Faces of Squaraine Chemistry

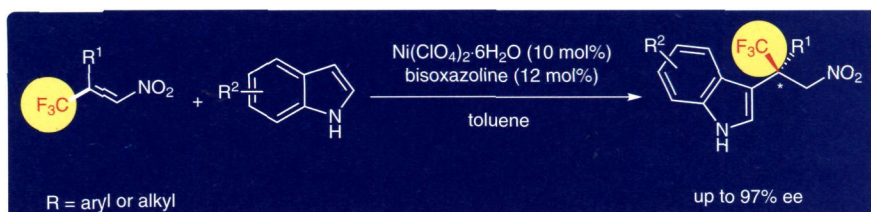
2014 • Vol. 25, 457–602

March 3, 2014

 Thieme

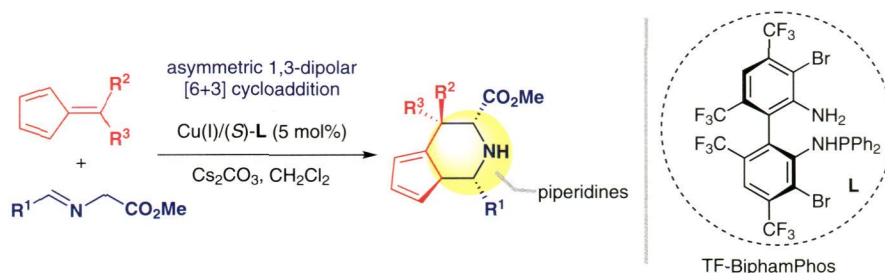
457 H. Wu  
R.-R. Liu  
Y.-X. Jia\*

### Asymmetric Friedel–Crafts Alkylation Reaction in the Construction of Trifluoromethylated All-Carbon Quaternary Stereocenters



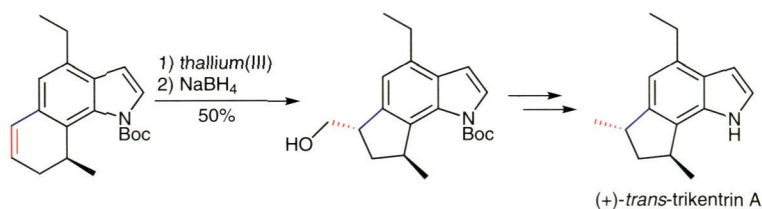
461 H.-Y. Tao  
C.-J. Wang\*

### A Facile Access to Piperidine Derivatives via Copper(I)-Catalyzed 1,3-Dipolar [6+3] Cycloadditions of Azomethine Ylides with Fulvenes

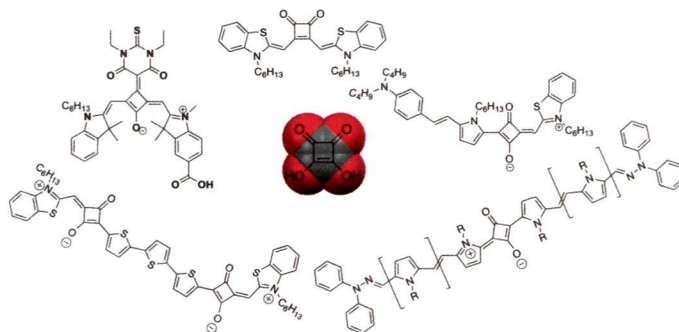


466 L. F. Silva, Jr. \*

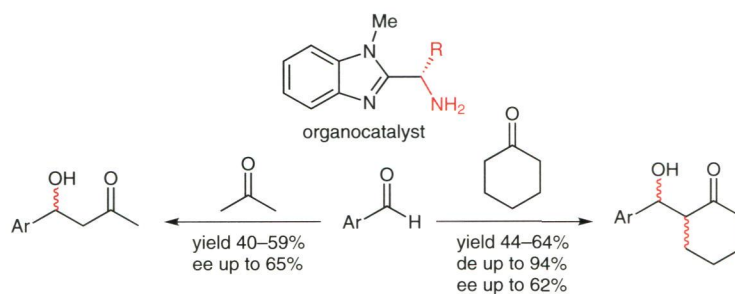
### Adventures in Ring-Contraction Reactions



- 477 L. Beverina\*  
M. Sassi
- Twists and Turns Around a Square: The Many Faces of Squaraine Chemistry**

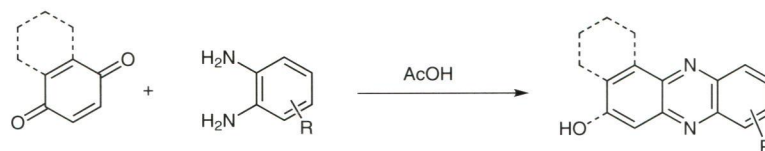


- 491 P. H. Mohite  
P. Drabina  
F. Bureš\*
- Benzo[d]imidazole and Aliphatic  $\alpha$ -Amino Acid Derived Primary Amines in Asymmetric Aldol Reactions**



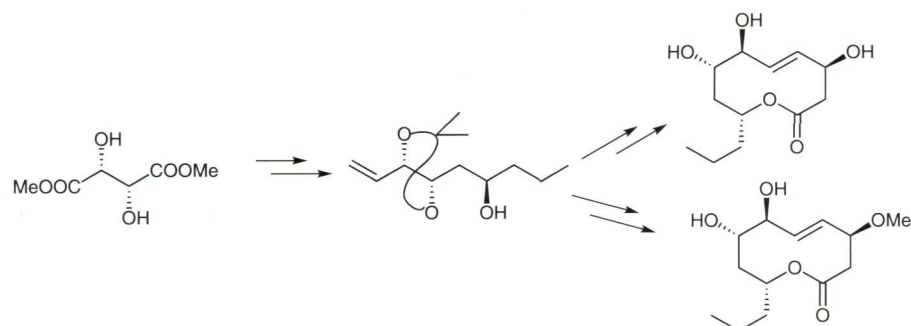
- 495 H. Kour  
S. Paul\*  
P. P. Singh  
R. Gupta

**A Mild and Simple Method for the Synthesis of Substituted Phenazines**



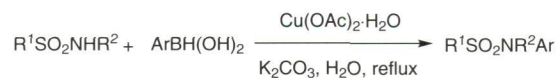
- 501 B. V. S. Reddy\*  
P. S. Reddy  
B. P. Reddy  
J. S. Yadav

**A Convergent and Stereoselective Total Synthesis of Phomolides G and H**



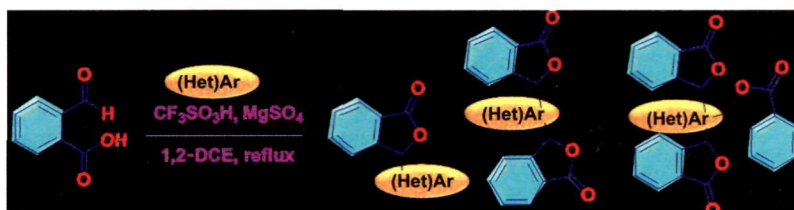
505 M. Nasrollahzadeh\*  
A. Ehsani  
M. Maham

**Copper-Catalyzed N-Arylation of Sulfonamides with Boronic Acids in Water under Ligand-Free and Aerobic Conditions**



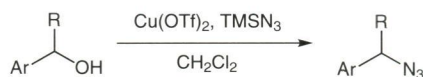
509 M. Nandakumar  
E. Sankar  
A. K. Mohanakrishnan\*

**Studies on the Phthalidation of Heteroarenes: A Facile Preparation of 3-(Heteroaryl)phthalides via Triflic Acid Mediated Phthalidation**



515 P. Khedar  
K. Pericherla  
A. Kumar\*

**Copper Triflate: An Efficient Catalyst for Direct Conversion of Secondary Alcohols into Azides**



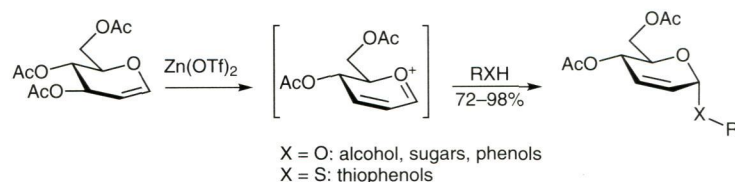
519 O. Rousseau  
T. Delaunay  
R. Robiette\*

**Synthesis of Monosubstituted 1,1-Dicarbonyl Ester 1,3-Dienes**



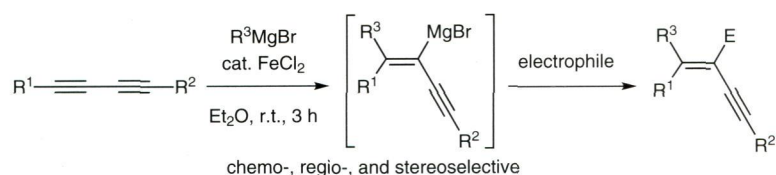
- 523 G. Narasimha  
B. Srinivas  
P. Radha Krishna\*  
S. Kashyap\*

### Zn(OTf)<sub>2</sub>-Catalyzed Glycosylation of Glycals: Synthesis of 2,3-Unsaturated Glycosides via a Ferrier Reaction



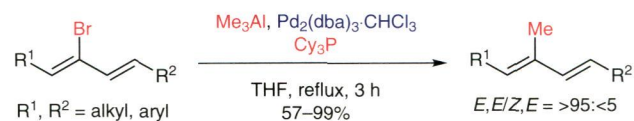
- 527 L. Ilies  
T. Yoshida  
E. Nakamura\*

### Synthesis of Polysubstituted Enynes through Iron-Catalyzed Carbomagnesiation of Conjugated Diynes



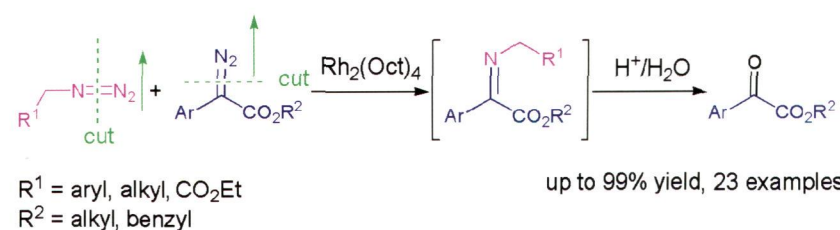
- 531 M. Miyazawa\*  
R. Takehana  
T. Sanga  
A. Hosomori  
H. Yokoyama  
Y. Hirai

### Highly Stereoselective Synthesis of 2-Methyl-1,3-dienes by Palladium-Catalyzed Cross-Coupling Reaction with Trimethylaluminum



- 535 P. Gu\*  
X.-P. Wu  
Y. Su  
X.-Q. Li  
P. Xue  
R. Li

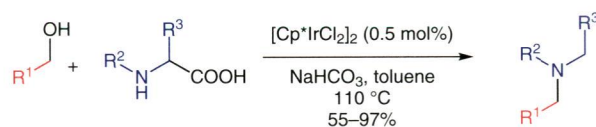
### Rhodium-Catalyzed Intermolecular Reaction of Alkyl Azides with Diazo(aryl)acetates



539

J. Wu\*  
H. Jiang  
D. Chen  
J. Shen  
D. Zhao\*  
J. Xiang  
Q. Zhou

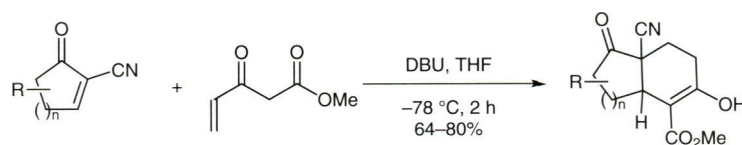
### Iridium-Catalyzed Decarboxylative N-Alkylation of $\alpha$ -Amino Acids with Primary Alcohols



543

C.-H. Tu  
Y.-K. Wu  
K.-S. Shia  
S.-C. Kuo  
H.-J. Liu\*  
M.-T. Hsieh\*

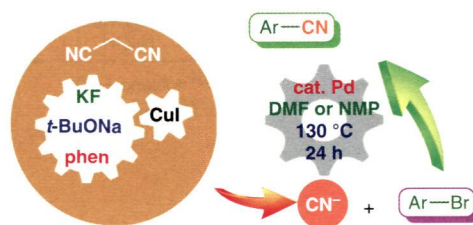
### Double Michael Addition Reactions of the Nazarov Reagent with 2-Cyano-2-Cycloalkenones: An Alternative Approach to *cis*-Fused Bicyclic Systems



547

G.-p. Lu  
M.-j. Bu  
C. Cai\*

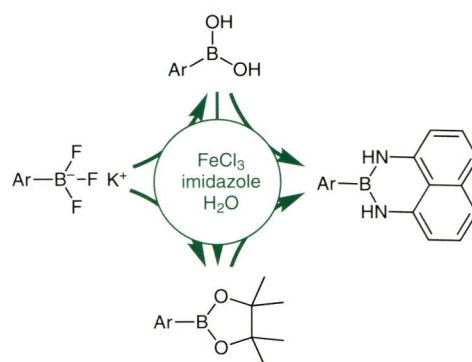
### Palladium-Catalyzed Cyanation of Aryl Bromides with Malononitrile via Carbon–Nitrile Bond Cleavage Mediated by Copper



551

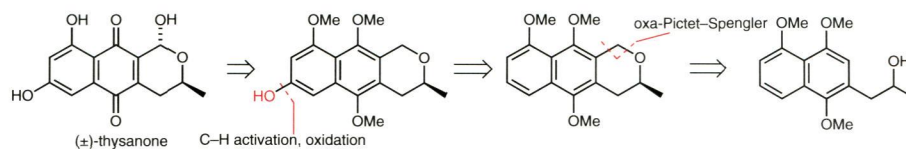
J. L. Wood  
L. D. Marciasini  
M. Vaultier  
M. Pucheault\*

### Iron Catalysis and Water: A Synergy for Refunctionalization of Boron



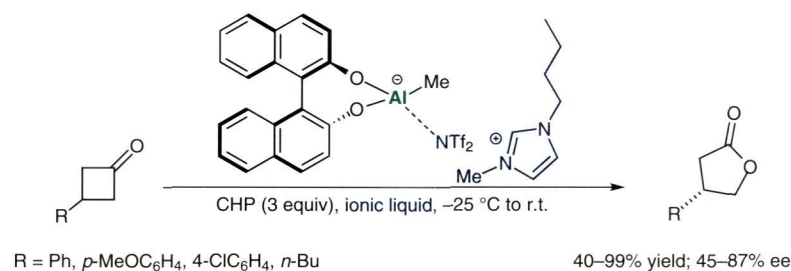
- 556 K. Schünemann  
D. P. Furkert  
S. Connelly  
J. D. Fraser  
J. Sperry  
M. A. Brimble\*

### Iridium-Catalysed C–H Borylation Facilitates a Total Synthesis of the HRV 3C Protease Inhibitor (±)-Thysanone



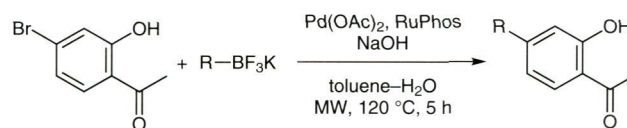
- 559 A. Drożdż  
M. B. Foreiter  
A. Chrobok\*

### Stable Chiral Complexes of Ionic Liquids with Aluminium and Biaryl Ligands as Efficient Catalysts for the Synthesis of Chiral Lactones



- 564 C. Pouget\*  
P. Trouillas  
R. Gueye  
Y. Champavier  
A. Laurent  
J.-L. Duroux  
V. Sol  
C. Fagnere

### Exploring the Use of the Suzuki Coupling Reaction in the Synthesis of 4'-Alkyl-2'-hydroxyacetophenones



- 569 S. Ortial  
R. Dave  
Z. Benfodda  
D. Bénimélis  
P. Meffre\*

### Synthesis of *cis*-5-Trifluoromethylproline from L-Glutamic Acid



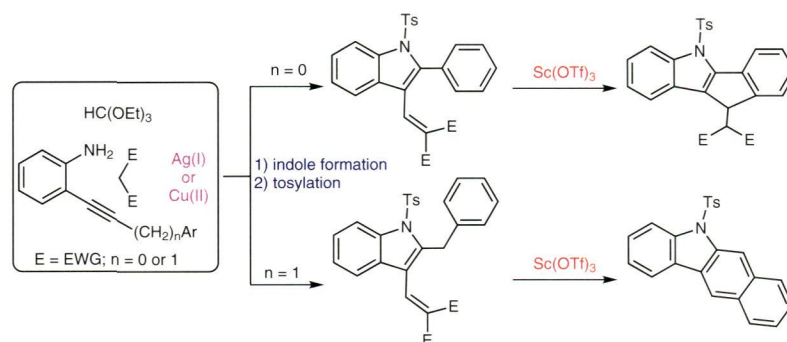
574 G. Chaubet  
G. Cazals  
A. Lebrun  
J. Martinez  
I. Parrot\*

### From Diketopiperazines to Hydantoin: An Unprecedented Rearrangement



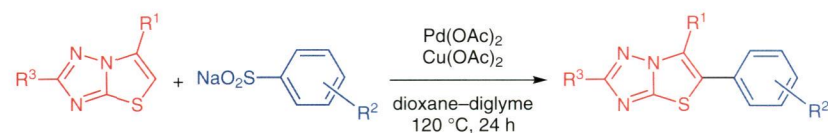
579 C. H. Oh\*  
H. S. Park  
N. Park  
S. Y. Kim  
L. Piao

### Scandium-Catalyzed Intramolecular Friedel–Crafts Reactions of 2-[(2-Alkyl-1*H*-indol-3-yl)methylene]malonates



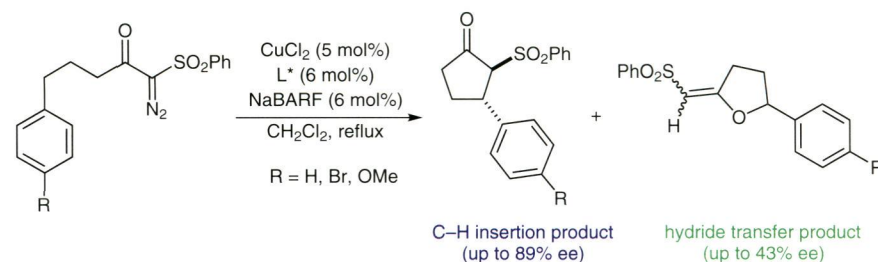
586 S. Wang  
W. Liu\*  
J. Lin  
Y. Jiang  
Q. Zhang  
Y. Zhong

### Palladium-Catalyzed Direct and Regioselective C-5 Desulfurative Arylation of Thiazolo[3,2-*b*]-1,2,4-triazoles with Sodium Sulfonates



591 C. N. Slattery  
A. Ford  
K. S. Eccles  
S. E. Lawrence  
A. R. Maguire\*

### Synthetic and Mechanistic Aspects on the Competition between C–H Insertion and Hydride Transfer in Copper-Mediated Transformations of $\alpha$ -Diazo- $\beta$ -Keto Sulfones

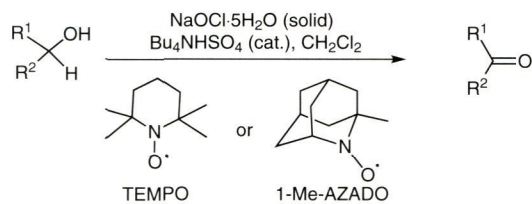




596

T. Okada  
T. Asawa  
Y. Sugiyama  
M. Kiriara  
T. Iwai  
Y. Kimura\*

### Sodium Hypochlorite Pentahydrate (NaOCl·5H<sub>2</sub>O) Crystals as an Extraordinary Oxidant for Primary and Secondary Alcohols



599

Compiled by  
O. Paley

### Cetylpyridinium Chloride

601

Compiled by  
B. Yu

### Glycerol

XV

### Forthcoming Articles