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# SYNLETT

Accounts and Rapid Communications in Synthetic Organic Chemistry

Cluster

**Organic Superbases**

*Editors: Tsutomu Ishikawa,  
Laurence M. Harwood*

Accounts

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L. Micouin, T. Lecourt*

Functionalization of the Anomeric  
C–H Bond of Carbohydrates:  
Old Strategies and New Opportunities

*T. Koike, M. Akita*

Visible-Light-Induced Photoredox  
Catalysis: An Easy Access to Green  
Radical Chemistry

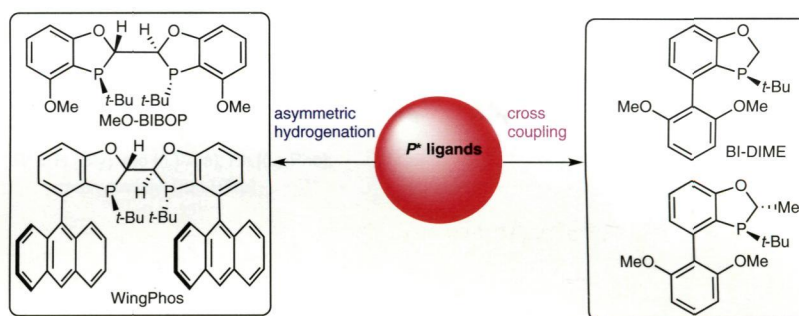
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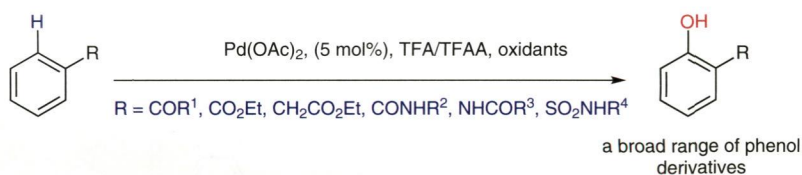
2465 G. Liu  
G. Xu  
R. Luo  
W. Tang\*

## Search for Ideal P-Chiral Phosphorus Ligands for Practical Asymmetric Hydrogenation and Asymmetric Suzuki–Miyaura Coupling



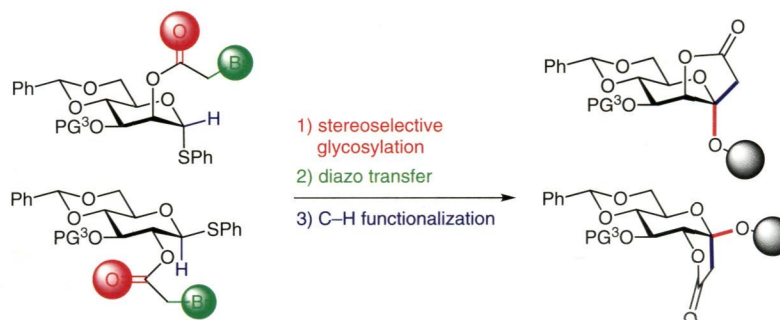
2472 Y. Rao\*

## Pd-Catalyzed $sp^2$ C–H Hydroxylation with TFA/TFAA via Weak Coordinations

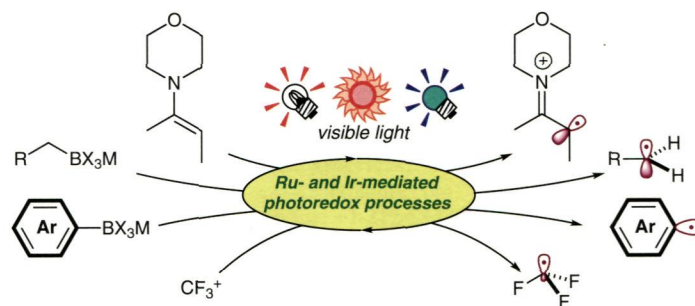


2477 M. Bouladakis-Arapinis  
C. Lescot  
L. Micouin  
T. Lecourt\*

## Functionalization of the Anomeric C–H Bond of Carbohydrates: Old Strategies and New Opportunities



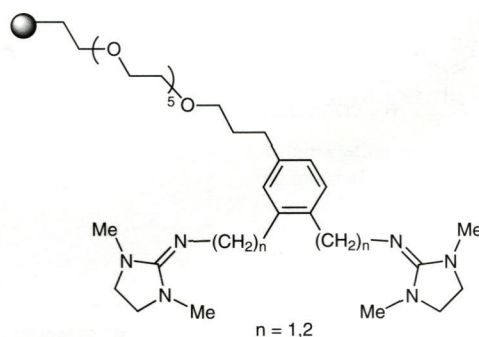
2492

T. Koike\*  
M. Akita\***Visible-Light-Induced Photoredox Catalysis: An Easy Access to Green Radical Chemistry**

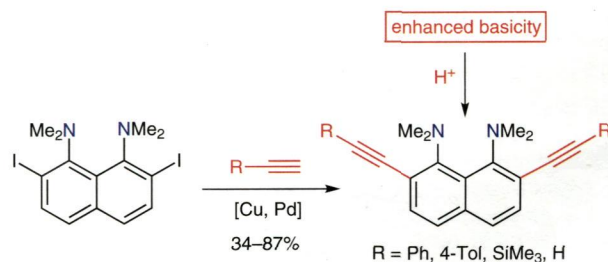
2507

T. Ishikawa\*  
L. M. Harwood\***Organic Superbases: The Concept at a Glance**

2510

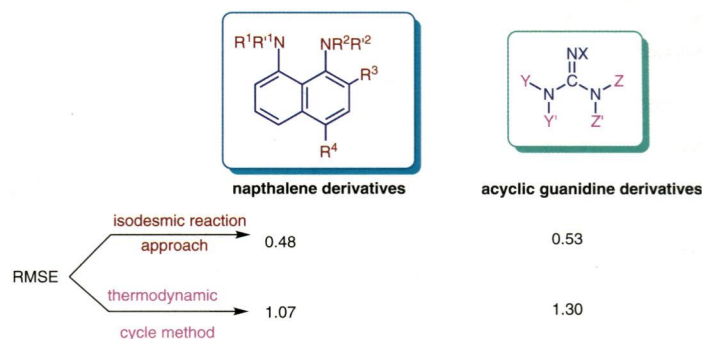
N. Suzuki\*  
K. Kishimoto  
K. Yamazaki  
T. Kumamoto  
T. Ishikawa\*  
D. Margetić**Immobilized 1,2-Bis(guanidinoalkyl)benzenes: Potentially Useful for the Purification of Arsenic-Polluted Water**

2515

E. A. Filatova  
A. F. Pozharskii\*  
A. V. Gulevskaia  
N. V. Vistorobskii  
V. A. Ozeryanskii**Synthesis of 2-Alkynyl-, 4-Alkynyl-, and 2,7-Dialkynyl-1,8-bis(dimethyl-amino)naphthalenes and the Unexpected Influence of *ortho*-Alkynyl Groups on Their Basicity**

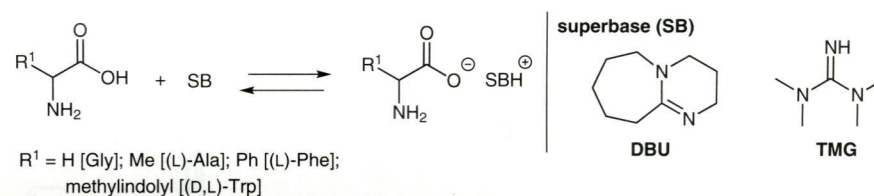
2519 A. K. Biswas  
R. Lo  
B. Ganguly\*

### Is the Isodesmic Reaction Approach a Better Model for Accurate Calculation of $pK_a$ of Organic Superbases? A Computational Study



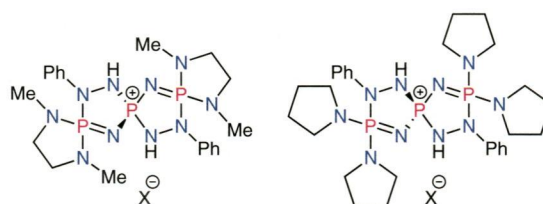
2525 G. V. S. M. Carrera  
A. Costa  
M. N. da Ponte  
L. C. Branco\*

### Use of Organic Superbases and Temperature Effects for the Development of Reversible Protic Amino Acid Salts



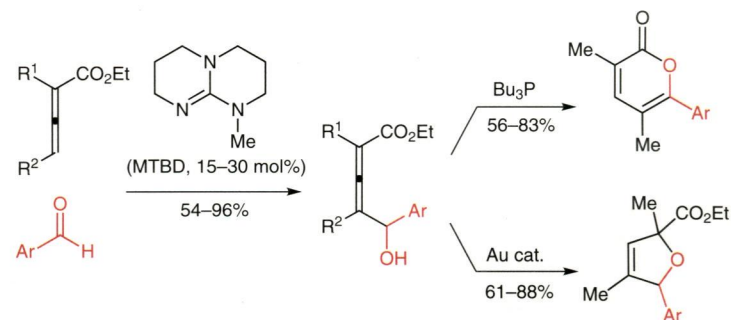
2531 M. Terada\*  
K. Goto  
M. Oishi  
T. Takeda  
E. Kwon  
A. Kondoh

### Design and Synthesis of Helically Chiral Spirocyclic P3 Phosphazenes and Characterization of Their Onium Salts



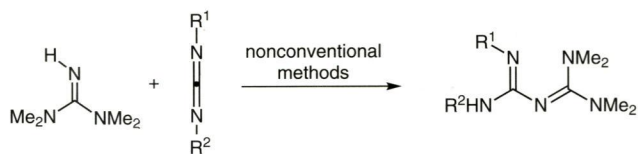
2535 P. Selig\*  
A. Turočkin  
W. Raven

### Guanidine-Catalyzed $\gamma$ -Selective Morita–Baylis–Hillman Reactions on $\alpha,\gamma$ -Dialkyl-Allenoates: Access to Densely Substituted Heterocycles



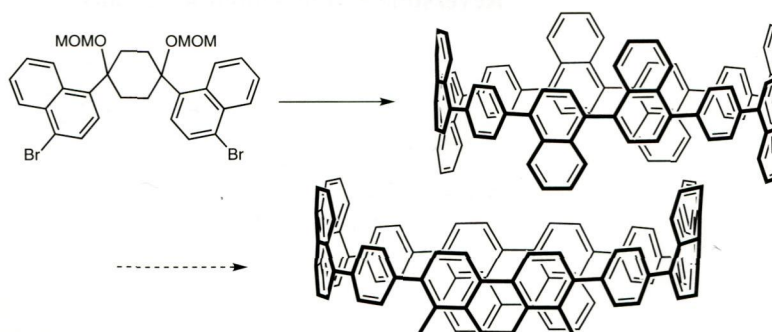
- 2540 Z. Glasovac  
P. Trošelj  
I. Jušinski  
D. Margetić\*  
M. Eckert-Maksić\*

### Synthesis of Highly Basic Hexasubstituted Biguanides by Environmentally Friendly Methods



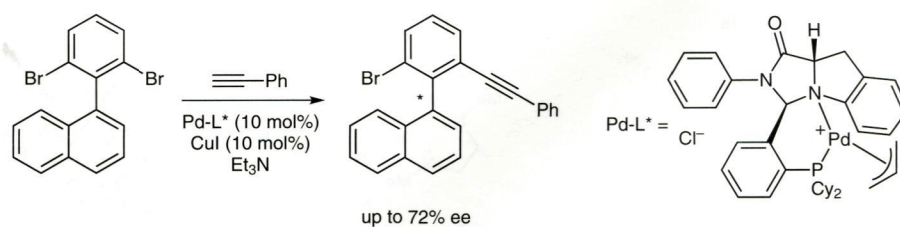
- 2545 J. M. Batson  
T. M. Swager\*

### Towards a Perylene-Containing Nano hoop



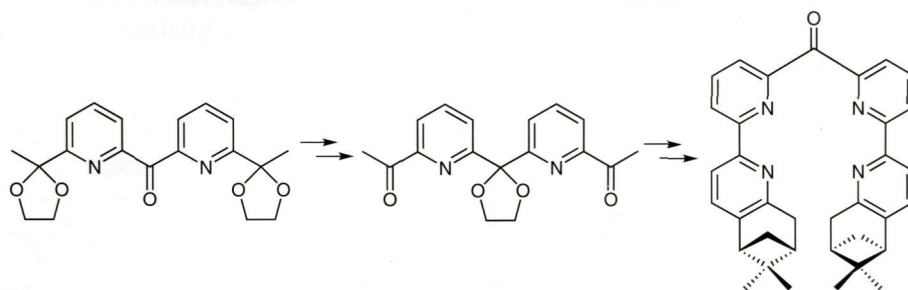
- 2550 H. Zhou  
Y. Uozumi\*

### Asymmetric Sonogashira Coupling with a Chiral Palladium Imidazoindole Phosphine Complex



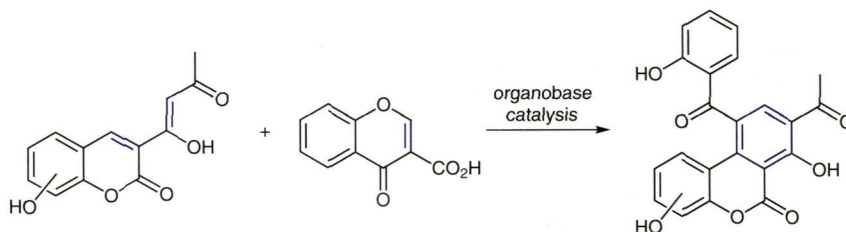
- 2555 A. Pöllnitz  
R. Skupiński  
H. Stoeckli-Evans  
A. Crochet  
A. Silvestru  
K. M. Fromm  
O. Mamula\*

### A Family of Immobilizable Chiral Bis(pinenebipyridine) Ligands



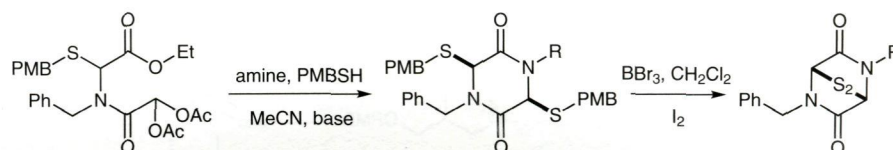
- 2559 O. Talhi  
M. Makhloufi-Chebli  
D. C. G. A. Pinto  
M. Hamdi\*  
A. M. S. Silva\*

### Hydroxylated Polyfunctionalized Benzo[*c*]coumarins by an Organocatalyzed Tandem 1,4-Conjugate Addition, Decarboxylation and Aromatization Reaction



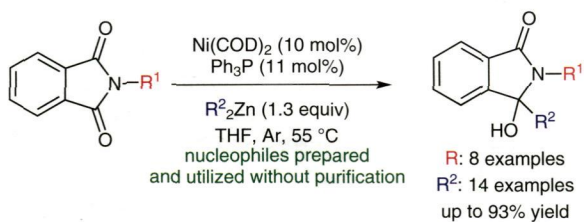
- 2563 B. C. Sil  
S. T. Hilton\*

### A Mild and Convenient Base-Catalysed Approach to Disubstituted Epidithiodiketopiperazines



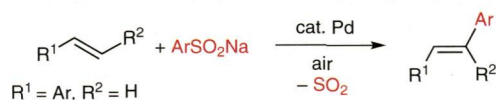
- 2567 J. M. Dennis  
C. M. Calyore  
J. S. Sjöholm  
J. P. Lutz  
J. J. Gair  
J. B. Johnson\*

### Nickel-Catalyzed Direct Addition of Diorganozinc Reagents to Phthalimides: Selective Formation of Gamma-Hydroxylactams



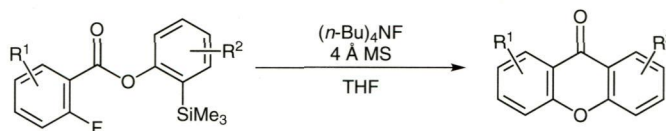
- 2571 N. Taniguchi\*

### Aerobic Palladium-Catalyzed Arylation of Alkenes Using Sodium Sulfonates



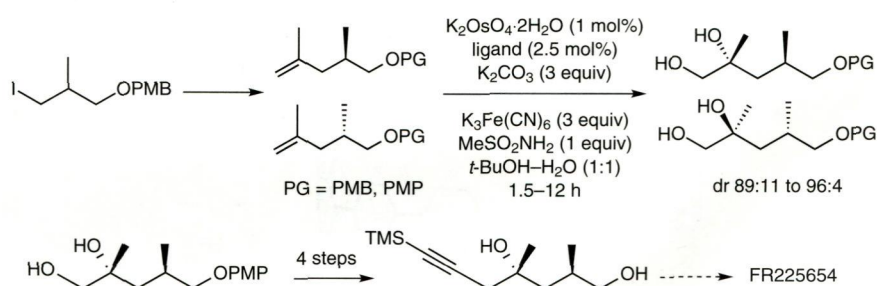
- 2575 Y. Fujimoto  
R. Itakura  
H. Hoshi  
H. Yanai  
Y. Ando  
K. Suzuki  
T. Matsumoto\*

**Novel One-Pot Synthesis of Xanthenes via Sequential Fluoride Ion-Promoted Fries-Type Rearrangement and Nucleophilic Aromatic Substitution**



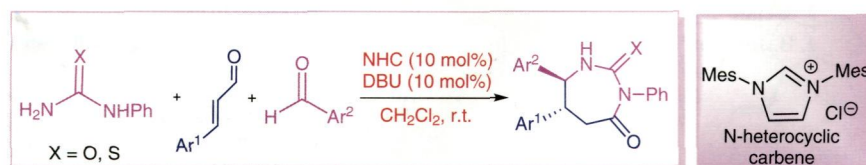
- 2581 S. Mohammad  
S. Dhambri  
D. Gori  
C. Vaxelaire  
G. Sorin  
J. Ardisson  
M.-I. Lannou\*

**Asymmetric Sharpless Dihydroxylation Reaction of Chiral Bishomoallylic Alcohols: Application to the Synthesis of the C1–C10–C5 Fragment of FR225654**



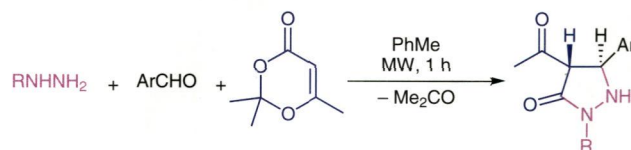
- 2586 I. R. Siddiqui\*  
A. Srivastava  
S. Shamim  
A. Srivastava  
Shireen  
M. A. Waseem  
R. K. P. Singh

**Highly Diastereoselective NHC-Catalyzed [4+3] Annulation of Enals, Aldehydes and *N*-Phenyl Urea/Thiourea for the Synthesis of Monocyclic *trans*-1,3-Diazepanes**



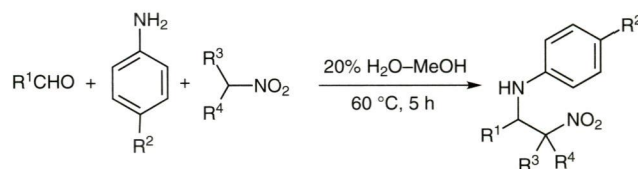
- 2591 I. Yavari\*  
M. J. Bayat  
S. Skoulika

**A Diastereoselective Synthesis of Functionalized 3-Pyrazolidinones from Hydrazines, Aromatic Aldehydes, and Acylketene**



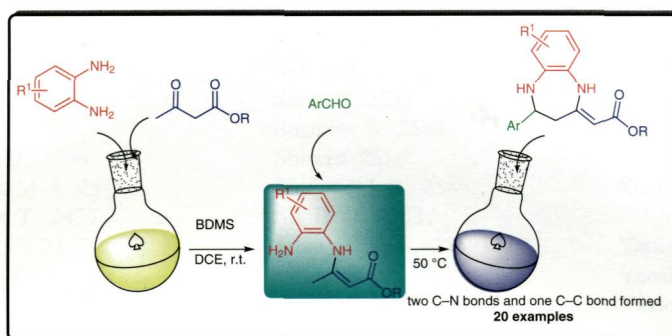
- 2596 C. G. Piscopo  
G. Sartori  
J. A. Mayoral  
D. Lanari  
L. Vaccaro  
R. Maggi\*

**Study on the Influence of a Sustainable Medium for the Design of Multistep Processes: Three-Component Synthesis of 2-Nitroamines**



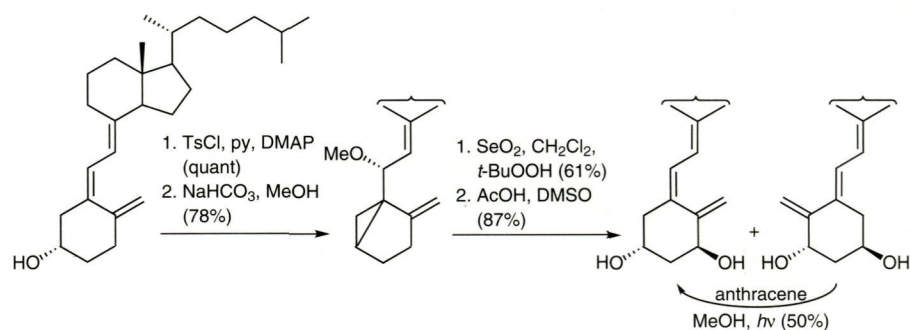
- 2601 S. Sarkar  
J. K. R. Deka  
J. P. Hazra  
A. T. Khan\*

**Bromodimethylsulfonium Bromide (BDMS)-Catalyzed Synthesis of 1,5-Benzodiazepines Using a Multi-Component Reaction Strategy**



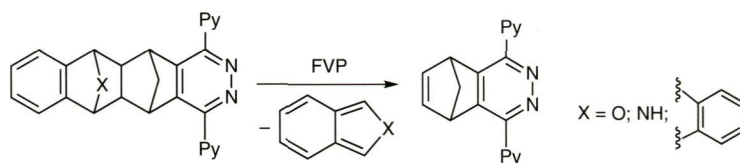
- 2606 J. Ding  
X. Guo\*  
Z. Zeng  
N. Liu

**A Modified Synthesis of the Antiosteoporosis Drug Alfacalcidol via a Key Photochemical Transformation of 1 $\alpha$ -5,6-*trans*-Vitamin D<sub>3</sub>**



- 2609 D. Margetić\*  
D. N. Butler  
R. N. Warrener

**Transfer Reagents 4: Retro-Diels–Alder Routes to 3,6-Di(2-pyridyl)pyridazino-norbornadiene, a Test Bed for the Relative Dienofugacity of Isobenzofuran, Isoindole, and Anthracene**





- 
- 2614 Compiled by **Hexachlorocyclohexa-2,5-dien-1-one**  
Z. Tanbakouchian

- 
- 2616 Compiled by ***N,N*-Dimethylaniline (NNDMA)**  
C. Huang