

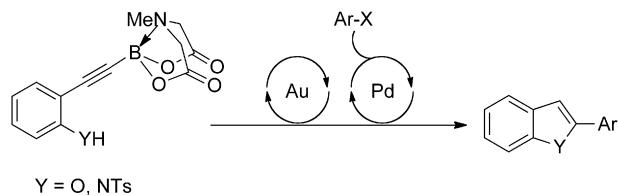


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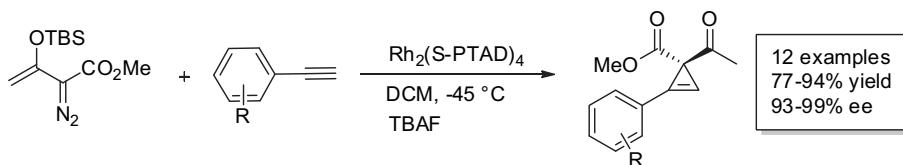
Tetrahedron Symposium-in-Print Number 152

**Tetrahedron Young Investigator Award 2011****Useful Synthetic Methods: Innovative Developments and Applications****F. Dean Toste***Guest editor:* Stephen F. Martin*The Department of Chemistry and Biochemistry, The University of Texas at Austin, 1 University Station A5300, Austin, TX 78712, USA***Contents****Tetrahedron Symposia-in-Print****pp 4301–4304****Tetrahedron Young Investigator Award 2011****p 4305****Tandem cycloisomerization/Suzuki coupling of arylethynyl MIDA boronates****pp 4306–4312**

Julian M.W. Chan, Giovanni W. Amarante, F. Dean Toste\*

**Rh<sub>2</sub>(S-PTAD)<sub>4</sub>-catalyzed asymmetric cyclopropanation of aryl alkynes****pp 4313–4317**

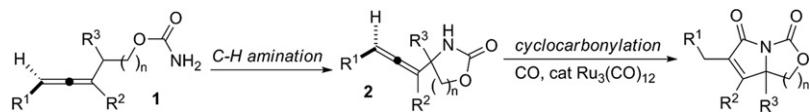
John F. Briones, Huw M.L. Davies\*



**C–H amination/cyclocarbonylation of allene carbamates: a versatile platform for the synthesis of  $\alpha,\beta$ -unsaturated  $\gamma$ -lactams**

pp 4318–4326

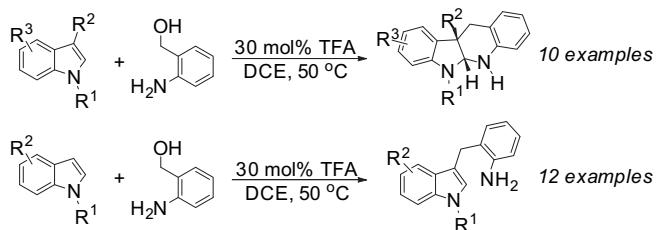
R. David Grigg\*, Jennifer M. Schomaker\* Vitaliy Timokhin



**Direct annulation and alkylation of indoles with 2-aminobenzyl alcohols catalyzed by TFA**

pp 4327–4332

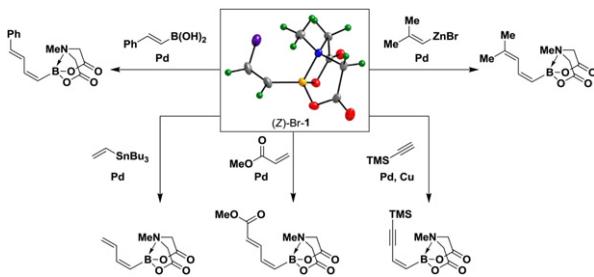
Forest J. Robertson, Bradshaw D. Kenimer, Jimmy Wu\*



**(Z)-(2-Bromovinyl)-MIDA boronate: a readily accessible and highly versatile building block for small molecule synthesis**

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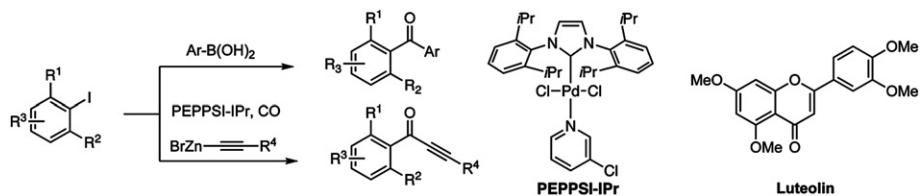
Eric M. Woerly, Justin R. Struble, Nagarjuna Palyam, Sean P. O'Hara, Martin D. Burke\*



**Facile access to sterically hindered aryl ketones via carbonylative cross-coupling: application to the total synthesis of luteolin**

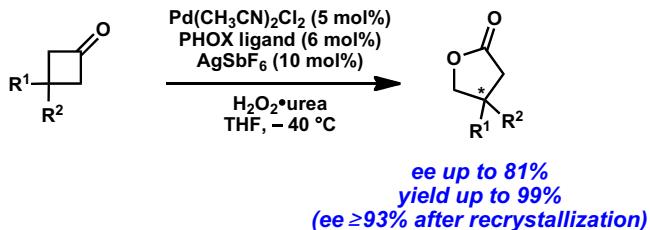
pp 4344–4351

B. Michael O'Keefe, Nicholas Simmons, Stephen F. Martin\*



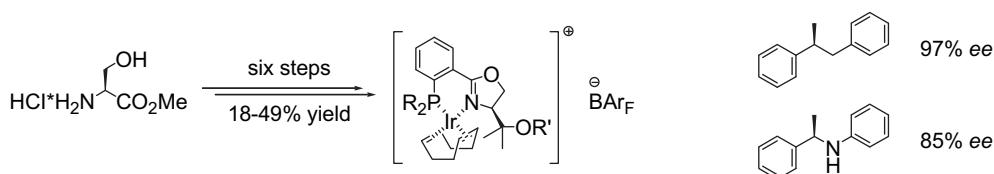
**Palladium-catalyzed, asymmetric Baeyer–Villiger oxidation of prochiral cyclobutanones with PHOX ligands**  
Kimberly S. Petersen, Brian M. Stoltz\*

pp 4352–4357



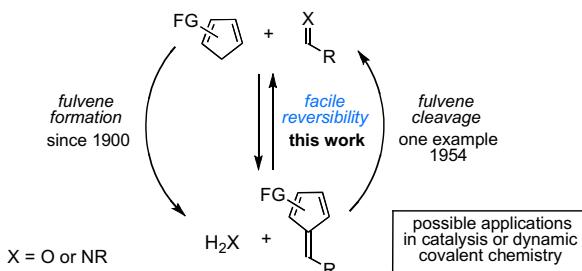
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Axel Franzke, Felix Voss, Andreas Pfaltz\*

pp 4358–4363



**Demonstration of the facile reversibility of fulvene formation**  
Jeffrey S. Bandar, Rockford W. Coscia, Tristan H. Lambert\*

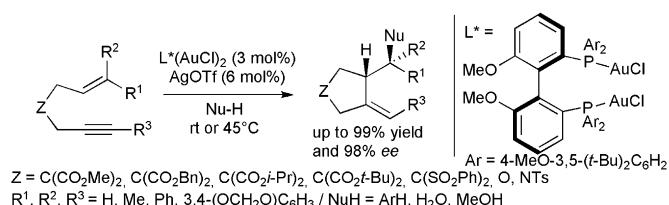
pp 4364–4370



**Asymmetric Au-catalyzed domino cyclization/nucleophile addition reactions of enynes in the presence of water, methanol and electron-rich aromatic derivatives**

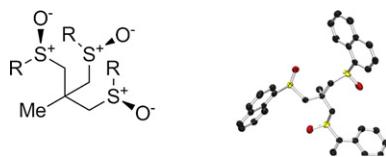
pp 4371–4377

Alexandre Pradal, Chung-Meng Chao, Maxime R. Vitale, Patrick Y. Toullec, Véronique Michelet\*



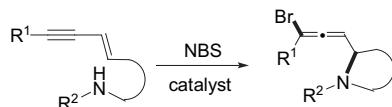
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Peter K. Dornan, Priscilla L. Leung, Vy M. Dong\*

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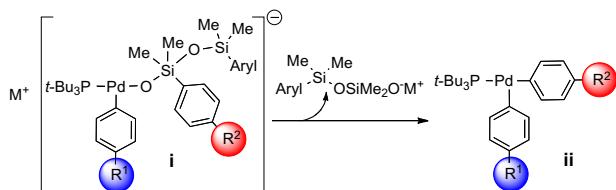
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Na Liu, Jenny B. Werness, Ilia A. Guzei, Weiping Tang\*

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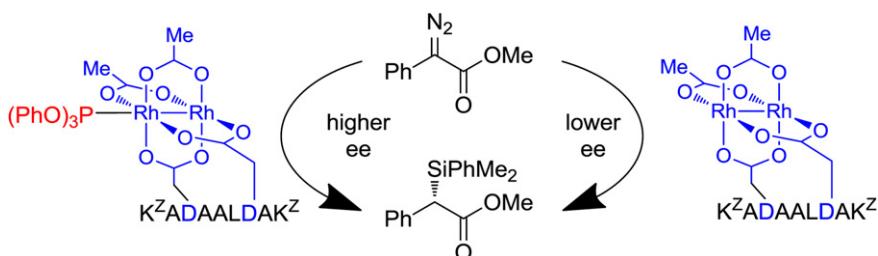
**Probing the electronic demands of transmetalation in the palladium-catalyzed cross-coupling of arylsilanolates**  
Scott E. Denmark\*, Russell C. Smith, Wen-Tau T. Chang

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**Kinetic and stereoselectivity effects of phosphite ligands in dirhodium catalysis**  
Alexander N. Zaykov, Zachary T. Ball\*

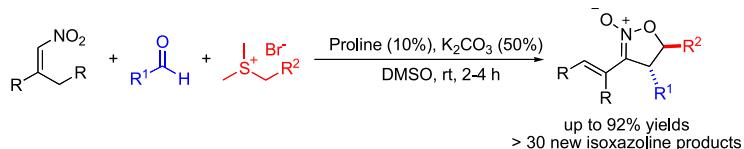
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**Amine nucleophilic addition to nitroalkene as a new practical approach for the synthesis of fully substituted isoxazoline-N-oxide**

pp 4402–4411

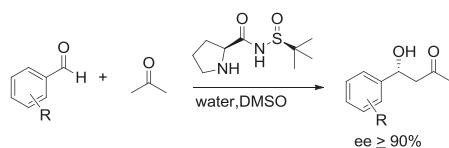
Cheng Zhong, Lekh Nath S. Gautam, Dawei Wang, Novruz G. Akhmedov, Jeffrey L. Petersen, Xiaodong Shi\*



**Development of an N-sulfinyl prolinamide for the asymmetric aldol reaction**

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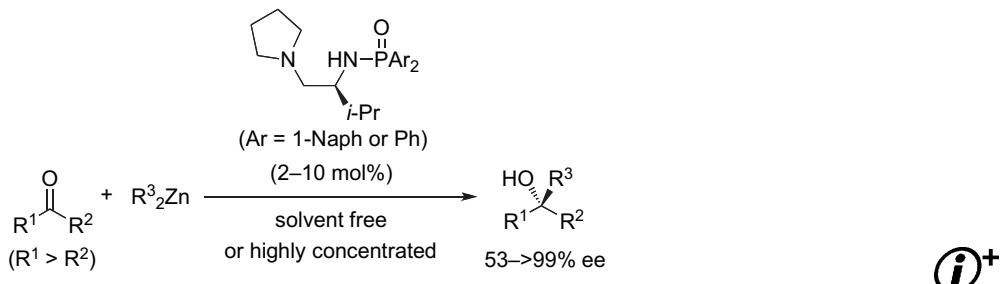
MaryAnn T. Robak, Melissa A. Herbage, Jonathan A. Ellman\*



**Commercially available neat organozincs as highly reactive reagents for catalytic enantioselective addition to ketones and aldehydes under solvent free conditions**

pp 4417–4424

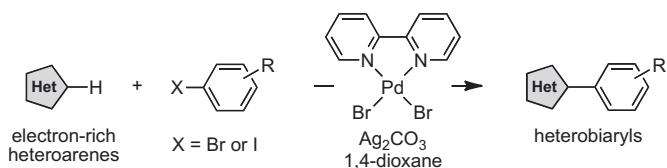
Manabu Hatano, Tomokazu Mizuno, Kazuaki Ishihara\*



**Palladium/2,2'-bipyridyl/Ag<sub>2</sub>CO<sub>3</sub> catalyst for C–H bond arylation of heteroarenes with haloarenes**

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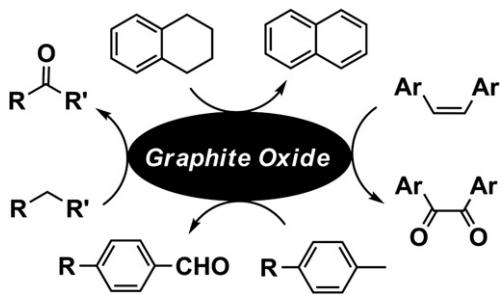
Shuichi Yanagisawa, Kenichiro Itami\*



**C–H oxidation using graphite oxide**

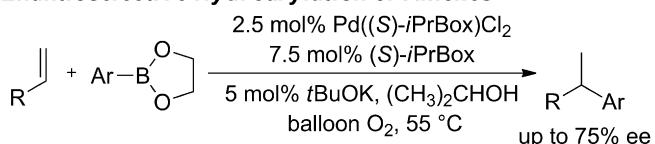
Hong-Peng Jia, Daniel R. Dreyer, Christopher W. Bielawski\*

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**Asymmetric palladium-catalyzed hydroarylation of styrenes and dienes**

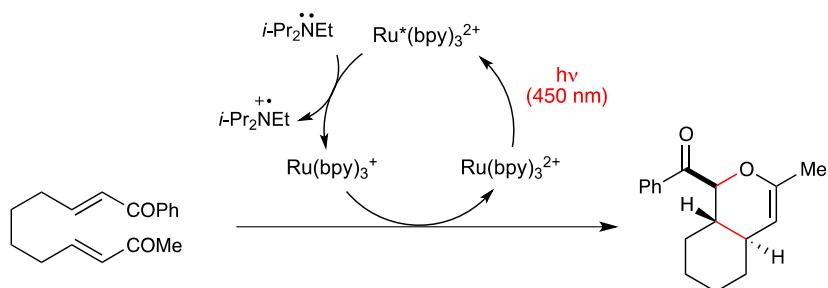
Susanne M. Podhajsky, Yasumasa Iwai, Amanda Cook-Sneathen, Matthew S. Sigman\*

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**Enantioselective Hydroarylation of Alkenes****Visible light photocatalysis of radical anion hetero-Diels–Alder cycloadditions**

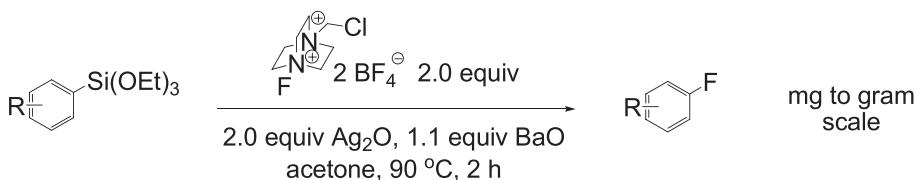
Anna E. Hurtley, Megan A. Cismesia, Michael A. Ischay, Tehshik P. Yoon\*

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**Silver-mediated fluorination of aryl silanes**

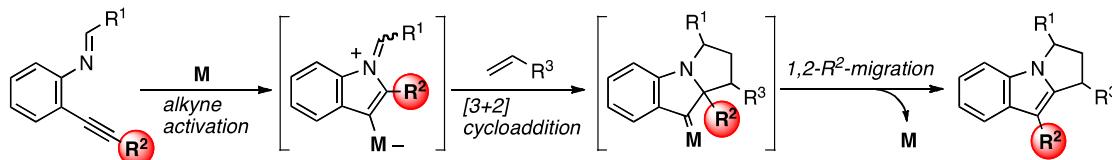
Pingping Tang, Tobias Ritter\*

pp 4449–4454



**[3+2] Cycloaddition of metal-containing azomethine ylides for highly efficient synthesis of mitosene skeleton**  
Jun Takaya, Yuichi Miyashita, Hiroyuki Kusama, Nobuharu Iwasawa\*

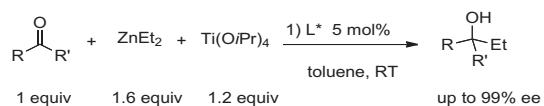
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**New ligands and structural insights into the catalytic asymmetric addition of organozinc reagents to ketones**

Gabriela Huelgas, Lynne K. LaRochelle, Lucrecia Rivas, Yekaterina Luchinina, Rubén A. Toscano, Patrick J. Carroll, Patrick J. Walsh, Cecilia Anaya de Parrodi\*

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\*Corresponding author

i+ Supplementary data available via ScienceDirect

**COVER**

The past decade has witnessed the development of methods based on Au-Catalysis as means to access molecular complexity. In this issue, Au-Catalysis is applied to the synthesis of heterocyclic boronates that can be employed in subsequent Pd-catalyzed Suzuki coupling reactions.

Cover figure designed by F. Dean Toste

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