

**Chemistry of electron-deficient ynamines and ynamides**
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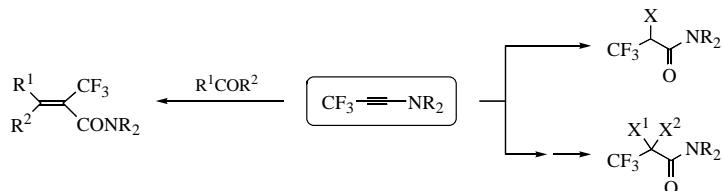
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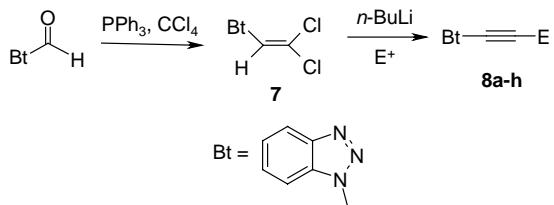
**ARTICLES**

**Preparation of trifluoromethylated ynamines and their reactions with some electrophilic reagents** pp 3783–3793  
 Takashi Ishihara,\* Toshiya Mantani, Tsutomu Konno and Hiroki Yamanaka


**A convenient synthesis of functionalized N-(ethynyl)benzotriazoles**

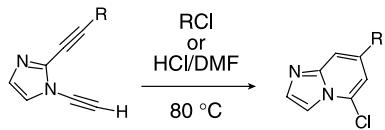
Alan R. Katritzky,\* Sandeep K. Singh and Rong Jiang

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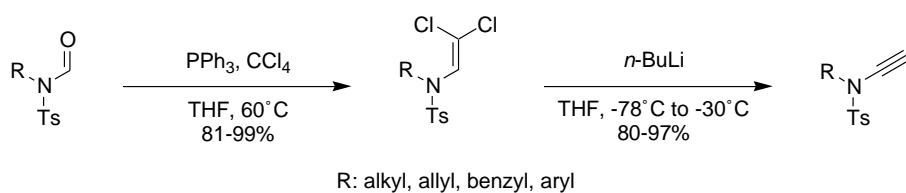
**Thermal cyclization of 1,2-dialkynylimidazoles to imidazo[1,2-*a*]pyridines**  
Asha K. Nadipuram and Sean M. Kerwin\*

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**Synthesis of ynamides from formamides**  
David Brückner

pp 3809–3814



**[2+2] Cycloaddition of ketenes with ynamides. A general method for the synthesis of 3-aminocyclobutene derivatives**

pp 3815–3822

Amanda L. Kohnen, Xiao Yin Mak, Tin Yiu Lam, Joshua R. Dunetz and Rick L. Danheiser\*

The general [2+2] cycloaddition reaction shows a ynamide (R<sup>1</sup>-N(EWG)-C≡N) reacting with a ketene (R<sup>3</sup>=C=O-R<sup>4</sup>) to form a 3-aminocyclobutene derivative. The product is a four-membered ring with the ynamide nitrogen and the ketene carbon in one corner, and the other two corners substituted with R<sup>2</sup> and R<sup>3</sup>.

**Ruthenium-catalyzed [2+2] cycloadditions of bicyclic alkenes and ynamides**  
Karine Villeneuve, Nicole Riddell and William Tam\*

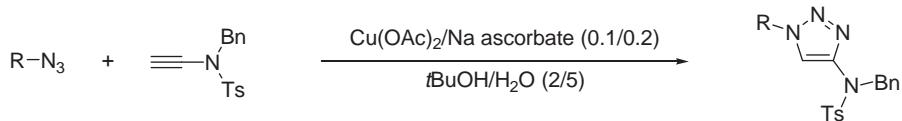
pp 3823–3836

The Ruthenium-catalyzed [2+2] cycloaddition reaction shows a bicyclic alkene (with substituents X and Y) reacting with a ynamide (R<sup>2</sup>-N(EWG)-C≡N) catalyzed by Cp\*RuCl(COD) in THF at 60 °C. The product is a cycloadduct where the ynamide is fused to the bicyclic system. The yield is up to 97%.

**Click chemistry with ynamides**

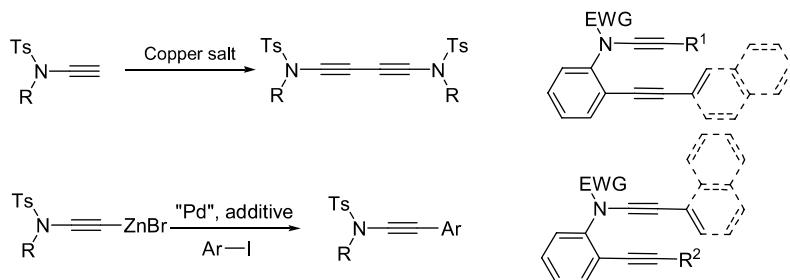
Maarten IJsselstijn and Jean-Christophe Cintrat\*

pp 3837–3842

**Coupling and cycloaddition of ynamides: homo- and Negishi coupling of tosylynamides and intramolecular [4 + 2] cycloaddition of *N*-(*o*-ethynyl)phenyl ynamides and arylynamides**

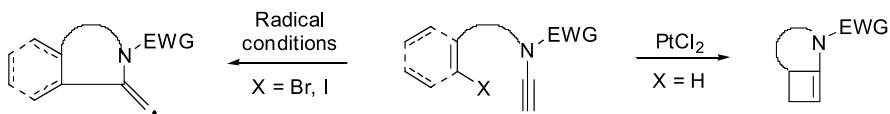
María Fernanda Martínez-Esperón, David Rodríguez, Luis Castedo and Carlos Saá\*

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**Radical cascade cyclizations and platinum(II)-catalyzed cycloisomerizations of ynamides**

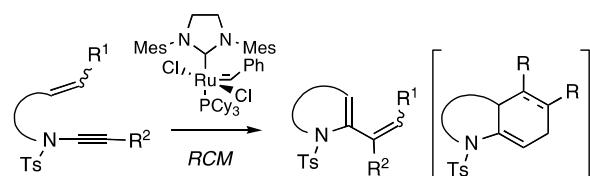
Frédéric Marion, Julien Coulomb, Aurore Servais, Christine Courillon,\* Louis Fensterbank\* and Max Malacria\*

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**Synthesis of cyclic dienamide using ruthenium-catalyzed ring-closing metathesis of ene-ynamide**

Miwako Mori,\* Hideaki Wakamatsu, Nozomi Saito, Yukako Sato, Rie Narita, Yoshihiro Sato\* and Reiko Fujita

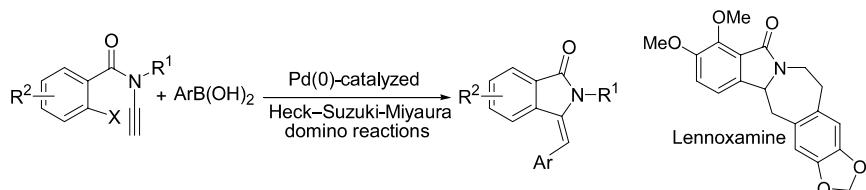
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**Synthesis of 3-(arylmethylene)isoindolin-1-ones from ynamides by Heck–Suzuki–Miyaura domino reactions. Application to the synthesis of lennoxamine**

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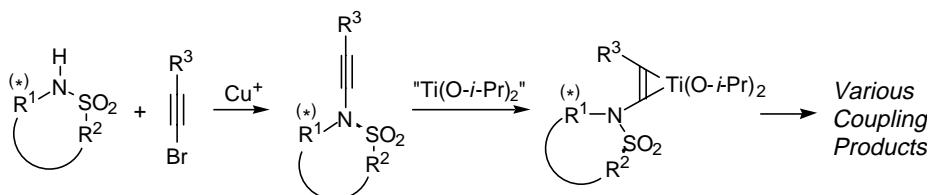
Sylvain Couty, Benoît Liegault, Christophe Meyer\* and Janine Cossy\*



**Practical preparation of *N*-(1-alkynyl)sulfonamides and their synthetic utility in titanium alkoxide-mediated coupling reactions**

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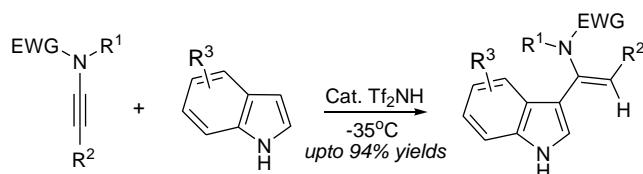
Shuji Hirano, Yasuhiro Fukudome, Ryoichi Tanaka, Fumie Sato and Hirokazu Urabe\*



**Synthesis of vinylpyrroles, vinylfurans and vinylindoles via a Brønsted acid catalyzed highly regio- and stereoselective cis-hydroarylation of ynamides**

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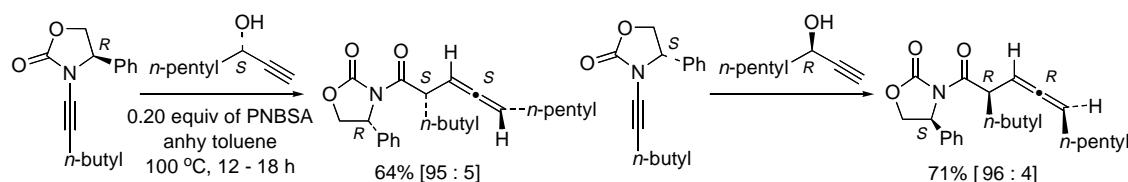
Yanshi Zhang



**Synthesis of chiral allenes from ynamides through a highly stereoselective Saucy–Marbet rearrangement**

pp 3928–3938

Kimberly C. M. Kurtz, Michael O. Frederick, Robert H. Lambeth, Jason A. Mulder, Michael R. Tracey and Richard P. Hsung\*

PNBSA = *para*-nitrobenzenesulfonic acid

\*Corresponding author

## COVER

The cover highlights all 14 outstanding contributions in this issue of Tetrahedron Symposium-in-Print on Chemistry of Electron-Deficient Ynamines and Ynamides that provides an excellent coverage of syntheses and an array of impressive methodologies employing different types of electron-deficient ynamines and ynamides, which can be seen either as starting materials in the box or embedded in various reaction products out side the box.

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