



## Tetrahedron Vol. 65, Issue 37, 2009

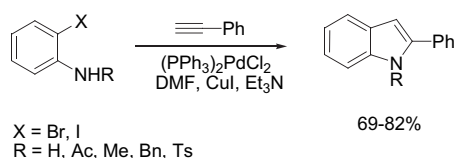
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## REPORT

## Recent advances in the application of the Sonogashira method in the synthesis of heterocyclic compounds

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Majid M. Heravi\*, Sodeh Sadjadi



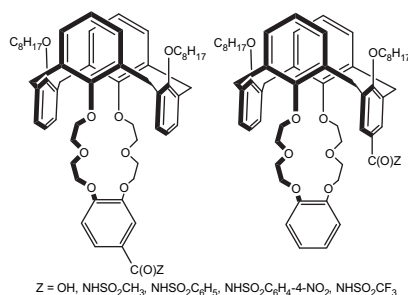
We have presented numerous very useful processes for the synthesis of heterocycles, which involve palladium-catalyzed coupling followed by heteroannulation reactions, reported in recent years. The report contains 72 Refs.

## ARTICLES

## Mono-ionizable calix[4]arene-benzocrown-6 ligands in 1,3-alternate conformations: synthesis, structure and silver(I) extraction

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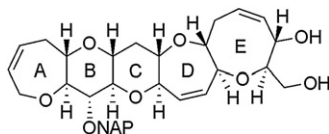
Malgorzata Surowiec, Radu Custelcean, Kazmiriez Surowiec, Richard A. Bartsch\*



**Convergent synthesis of the A–E ring segment of ciguatoxin CTX3C**

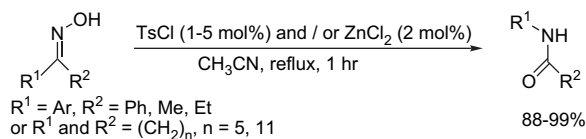
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Isao Kadota\*, Takashi Abe, Miyuki Uni, Hiroyoshi Takamura, Yoshinori Yamamoto

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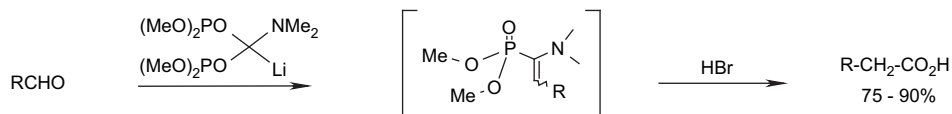
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Hong-Jun Pi, Jin-Dong Dong, Na An, Wenting Du\*, Wei-Ping Deng\*

**Development of a one-pot method for the homologation of aldehydes to carboxylic acids**

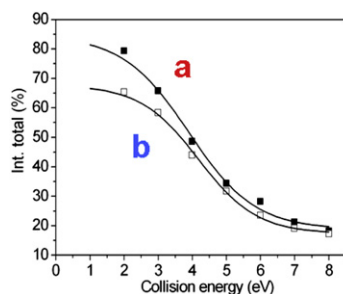
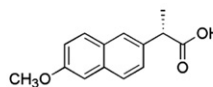
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James McNulty\*, Priyabrata Das

**Fluorescence and mass spectrometry studies of the interaction between naproxen and synthetic pseudopeptidic models in organic media**

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M. Isabel Burguete, Ghinwa Fawaz, Francisco Galindo\*, M. Ángeles Izquierdo, Santiago V. Luis\*, Jean Martínez, Xavier J. Salom-Roig\*

**Binding affinity to naproxen**

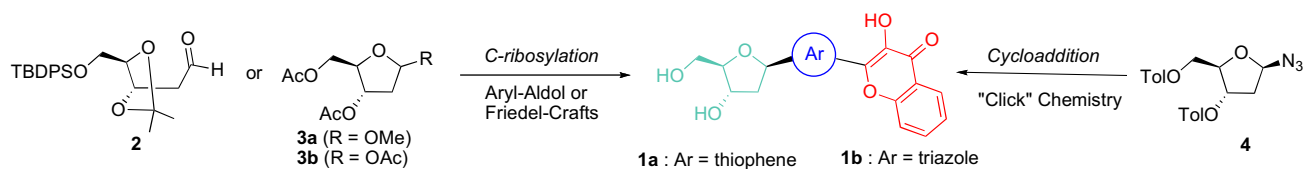
**Aromatic model (a)** > **Non-aromatic model (b)**



**Efficient Synthesis of Ratiometric Fluorescent Nucleosides Featuring 3-Hydroxychromone Nucleobases**

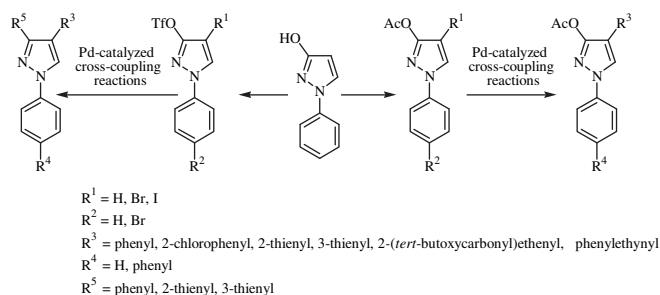
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Marie Spadafora, Victoria Y. Postupalenko, Volodymyr V. Shvadchak, Andrey S. Klymchenko, Yves Mély, Alain Burger\*, Rachid Benhida\*

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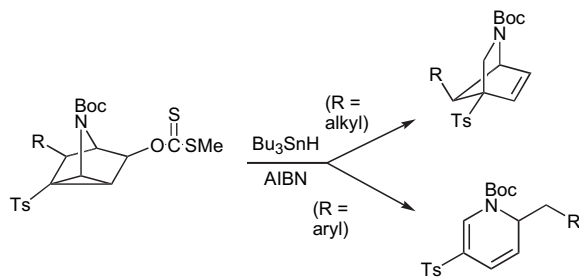
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Eglė Arbačiauskienė, Gytė Vilkauskaitė, Gernot A. Eller, Wolfgang Holzer\*, Algirdas Šačkus\*

**Radical deoxygenation of 3-azatricyclo[2.2.1.0<sup>2,6</sup>]heptan-5-ols to 2-azabicyclo[2.2.1]hept-5-enes and 1,2-dihydropyridines**

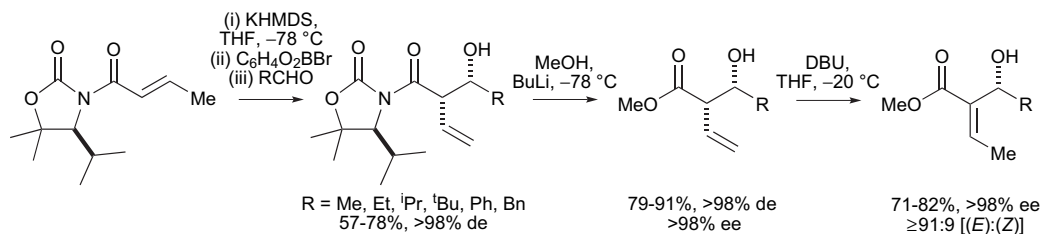
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David M. Hodgson\*, Matthew L. Jones, Christopher R. Maxwell, Andrew R. Cowley, Amber L. Thompson, Osamu Ichihara, Ian R. Matthews

**The dienolate aldol reaction of (*E*)-*N*-crotonoyl C(4)-isopropyl SuperQuat: asymmetric synthesis of  $\alpha$ -vinyl- $\beta$ -hydroxycarboxylic acid derivatives and conversion to  $\alpha$ -ethylidene- $\beta$ -hydroxyesters ( $\beta$ -substituted Baylis–Hillman products)**

pp 7837–7851

Stephen G. Davies\*, Dirk L. Elend, Simon Jones, Paul M. Roberts, Edward D. Savory, Andrew D. Smith, James E. Thomson

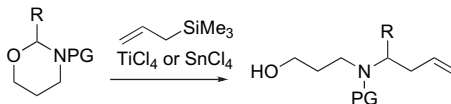


The asymmetric dienolate aldol reaction of (*E*)-*N*-crotonoyl C(4)-isopropyl SuperQuat provides (after deprotection)  $\alpha$ -vinyl- $\beta$ -hydroxyesters in >98% de and >98% ee. Subsequent double bond isomerisation gives  $\alpha$ -ethylidene- $\beta$ -hydroxyesters in high diastereo- and enantiopurity ( $\geq$ 91:9 [(*E*):(*Z*)] and >98% ee).

**Ring opening of cyclic *N,O*-acetals with allyltrimethylsilane under Lewis acidic conditions**

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Roderick W. Bates\*, Yongna Lu, Melody Peiling Cai



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+ Supplementary data available via ScienceDirect

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