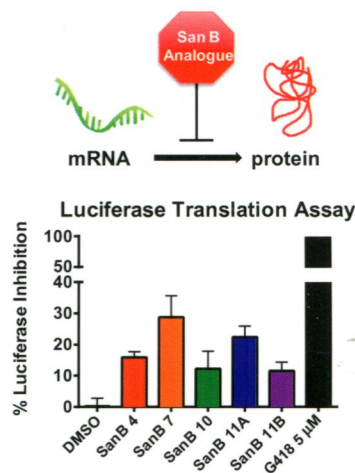
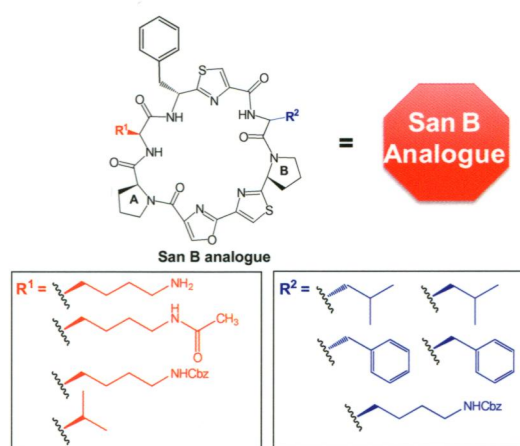


Tetrahedron Letters

THE INTERNATIONAL JOURNAL FOR THE RAPID PUBLICATION OF ALL
PRELIMINARY COMMUNICATIONS IN ORGANIC CHEMISTRY

IN THIS ISSUE:

Synthesis of macrocycles that inhibit protein synthesis: stereochemistry and structural based studies on sanguinamide B derivatives



Adrian L. Pietkiewicz, Hendra Wahyudi,
Jeanette R. McConnell, Shelli R. McAlpine

Tetrahedron Letters Vol. 55, Issue 51, 2014

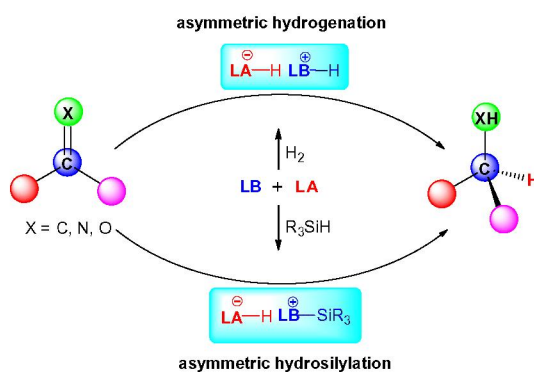
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DIGEST PAPER

Metal-free asymmetric hydrogenation and hydrosilylation catalyzed by frustrated Lewis pairs

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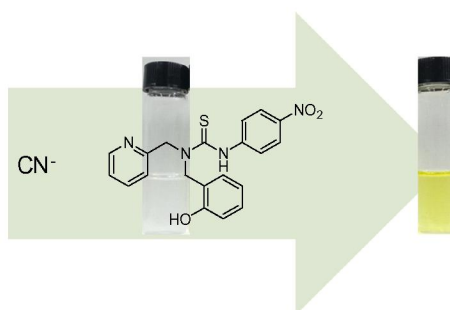
The metal-free hydrogenation utilizing molecular hydrogen is a challenging and unsolved problem. The development of frustrated Lewis pairs (FLPs) provides a novel access to the metal-free homogeneous hydrogenation. In the past several years, the hydrogenation of a wide range of unsaturated compounds using FLP catalysts has been successfully developed, and the asymmetric hydrogenation has also witnessed great progress. Similarly, Si–H bond can also be activated by FLPs for hydrosilylation of ketones and imines. This Letter will outline the present progress of metal-free catalytic asymmetric hydrogenation and hydrosilylation using FLP catalysts.

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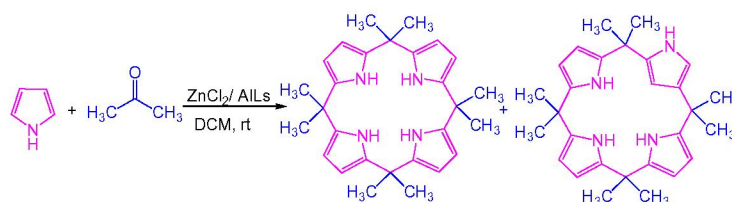
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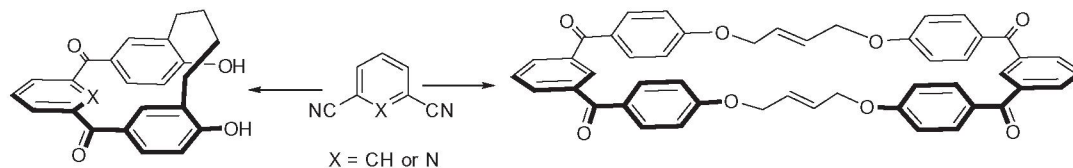
Amit Kumar Rawat, S. M. S. Chauhan*



Design of new synthetic strategies to cyclophanes via ring-closing metathesis

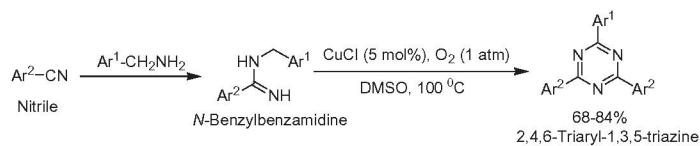
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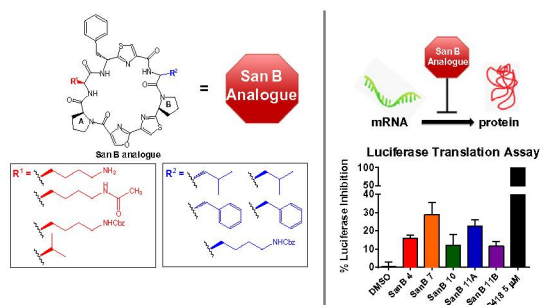
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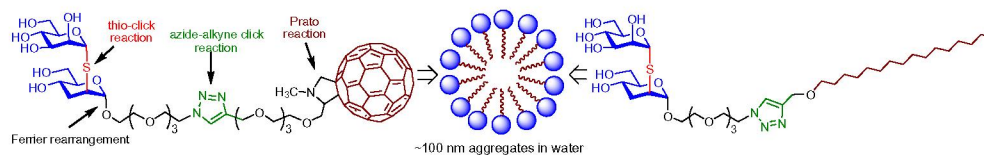
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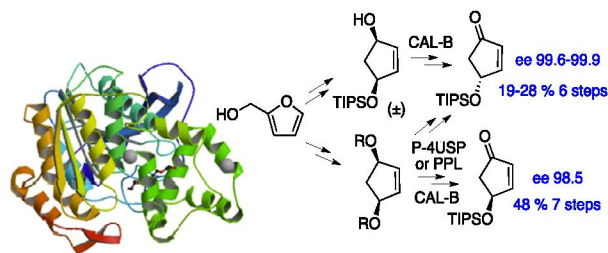
Magdolna Csávás*, Tamás Demeter, Mihály Herczeg, István Timári, Katalin E. Kövér, Pál Herczegh, Anikó Borbás*



Chemoenzymatic routes to cyclopentenols: the role of protecting groups on stereo- and enantioselectivity

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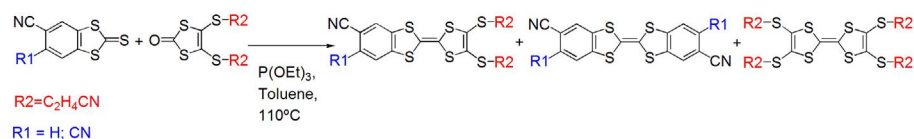


Both (*R*)- and (*S*)-4-triisopropylsilyloxycyclopent-2-en-1-ones were prepared in enantiopure form in high yields (37–64%) from (\pm)-4-hydroxycyclopent-2-en-1-one, itself easily obtained from furfuryl alcohol. The chirality was introduced from either enzymatic resolution or desymmetrization. TIPS proved to be the best protecting group.

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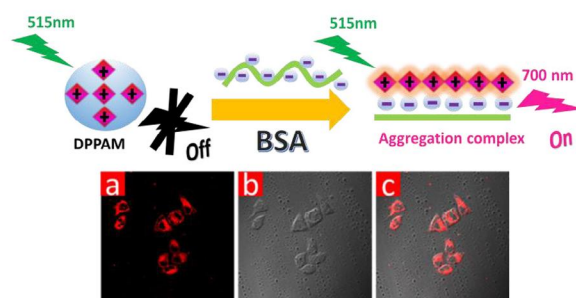
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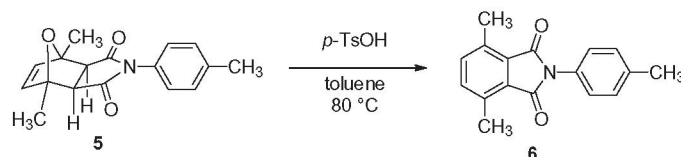
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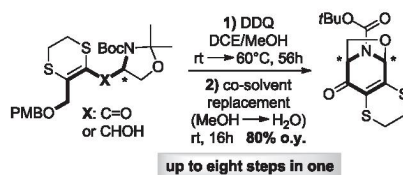
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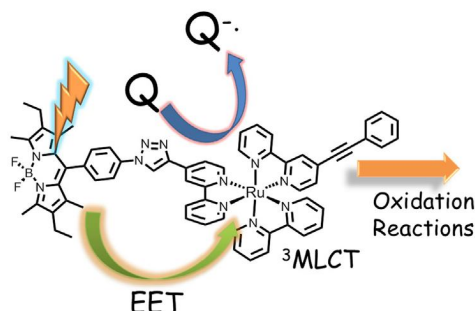
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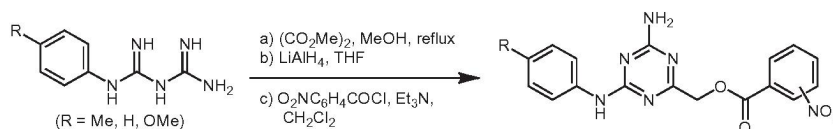
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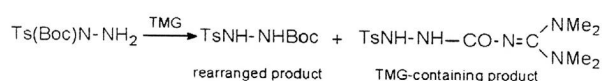
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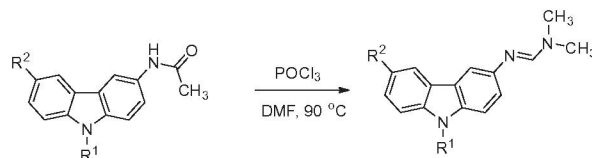
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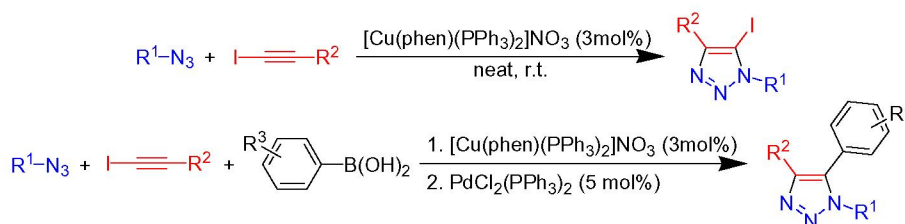
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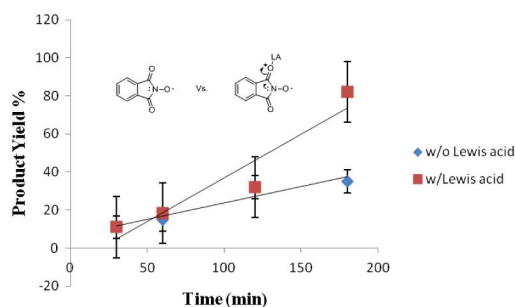
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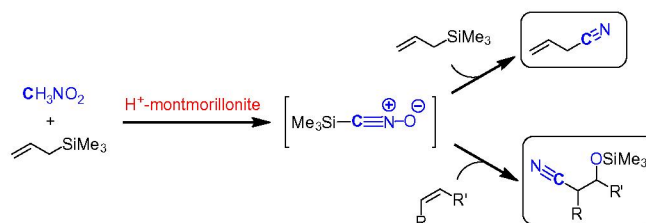
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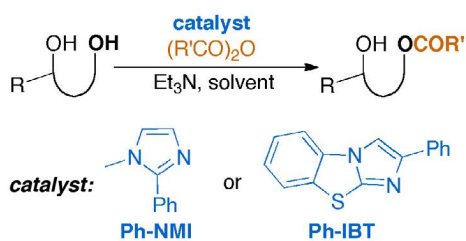
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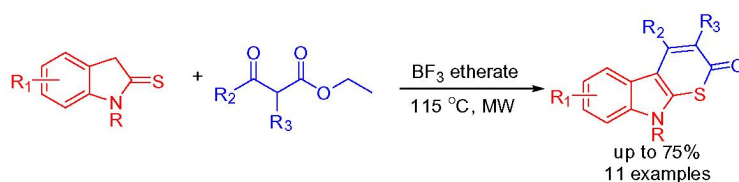
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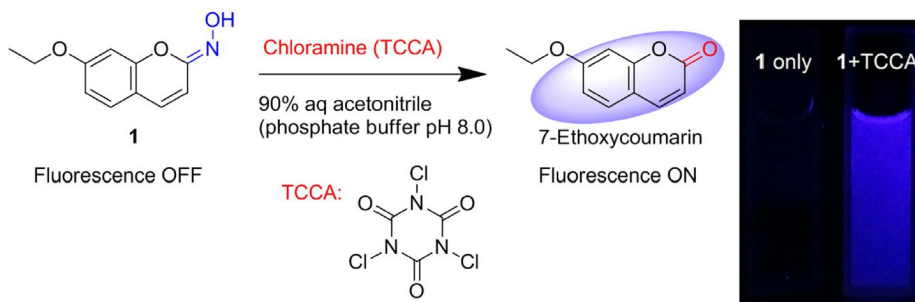

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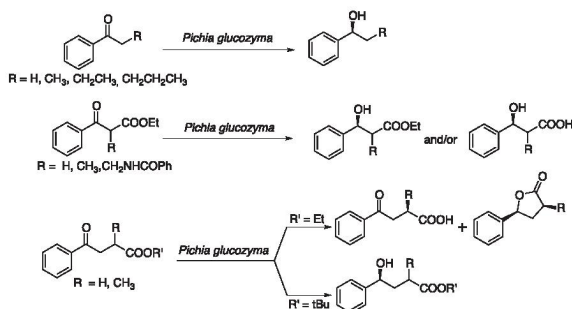

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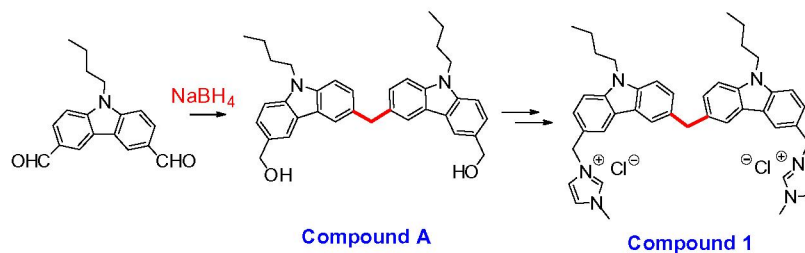
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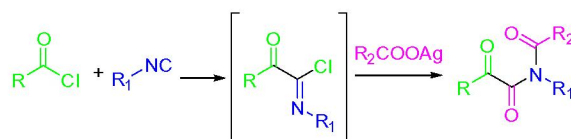
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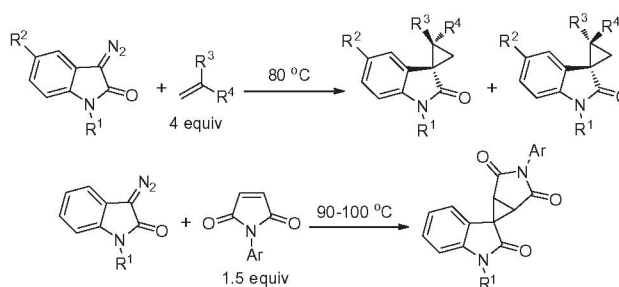
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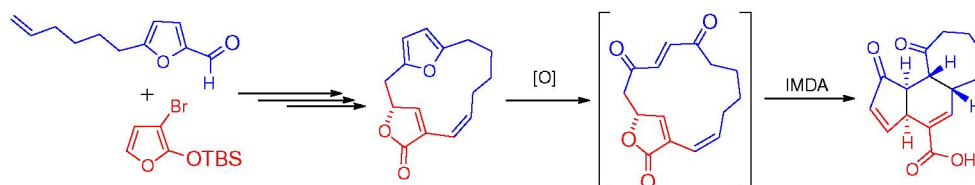
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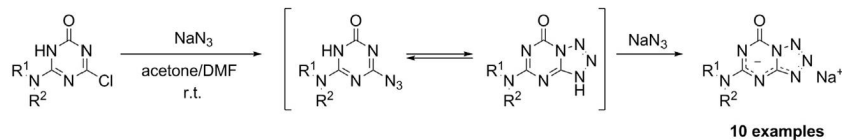
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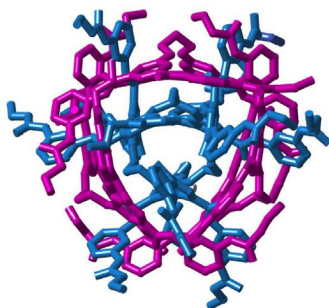
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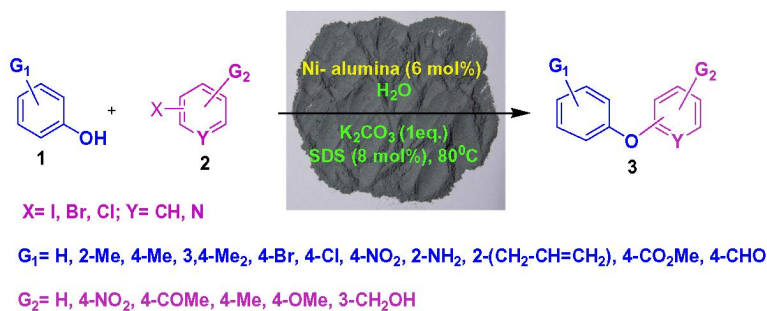
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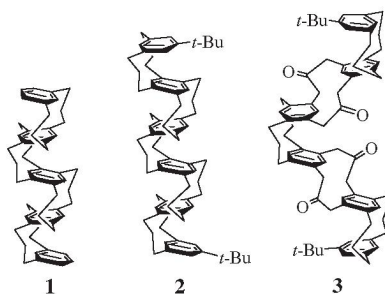
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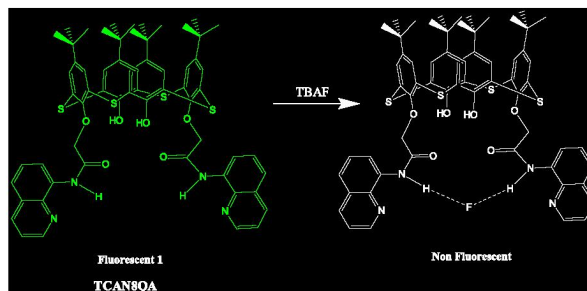
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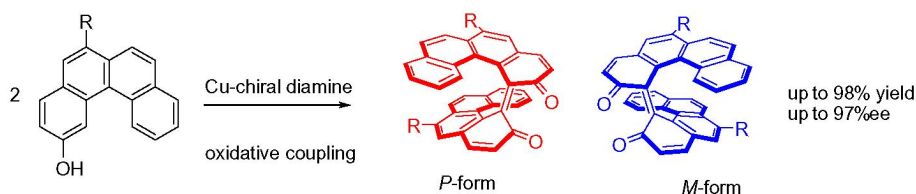
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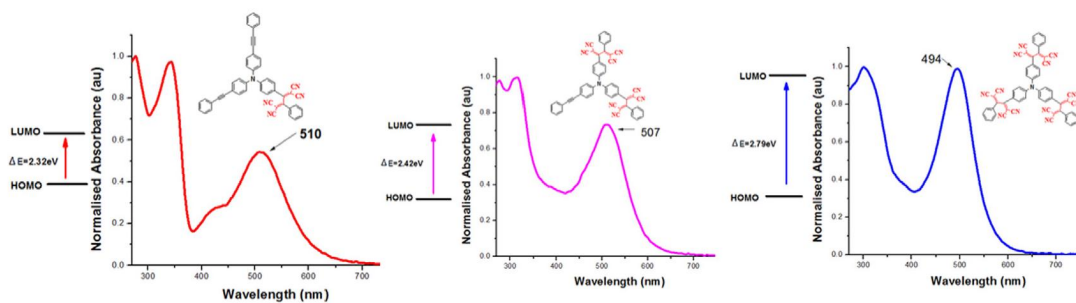
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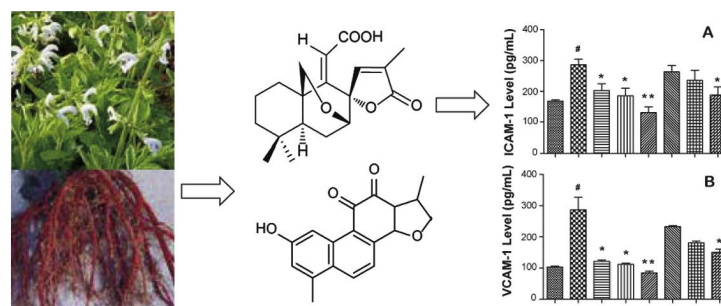
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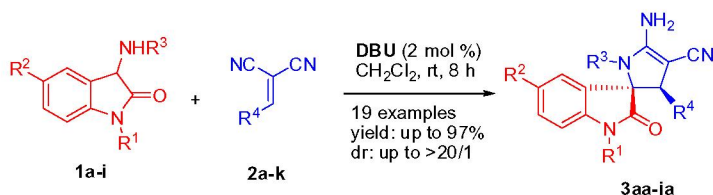
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Tingting Xie, Shuli Ma, Hongxiang Lou, Rongxiu Zhu, Longru Sun*

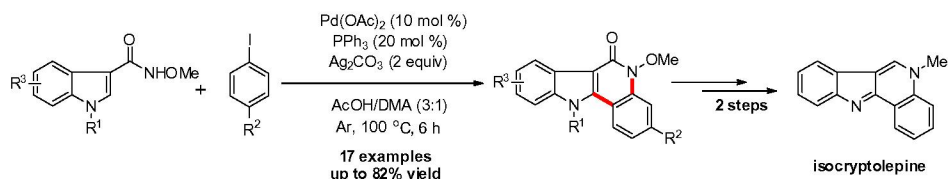


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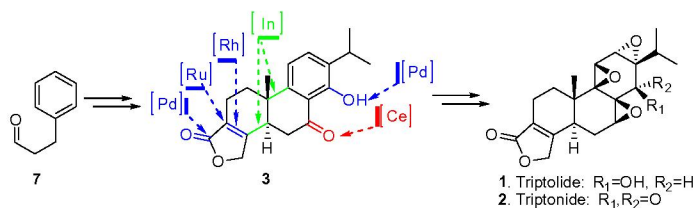
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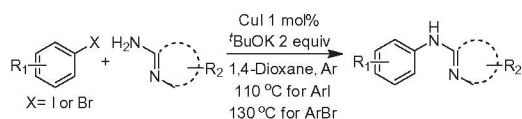
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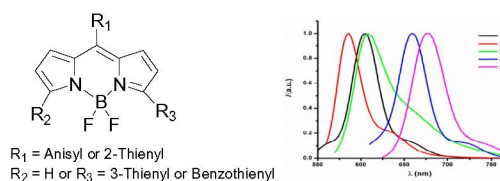
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Synthesis and photophysical studies of heteroaryl substituted-BODIPY derivatives for biological applications

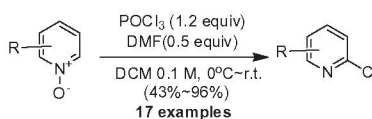
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Dipti Lakhe, Karthika K. Jairaj, Madhura Pradhan, Uma Ladiwala, Neeraj Agarwal*

**A practical and mild chlorination of fused heterocyclic N-oxides**

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Dong Wang*, Hailing Jia, Wuchang Wang, Zhe Wang

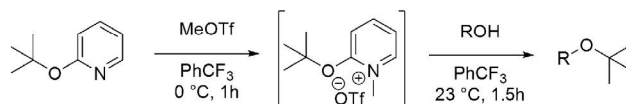


Fused azine N-oxides were selectively chlorinated at C2 in moderate to excellent yields, employing Vilsmeier reagent as both the activating agent and the nucleophilic chloride source. Remarkable features of the method include simple operation, mild reaction conditions, a wide substrate scope, and the use of only stoichiometric amount of POC₃. The potential extension of this method to a one-pot oxidation/chlorination sequence that obviates the need for isolation of the N-oxide intermediates is also validated.

**Acid- and isobutylene-free synthesis of *t*-butyl ethers by in situ formation of 2-*t*-butoxy-1-methylpyridinium triflate**

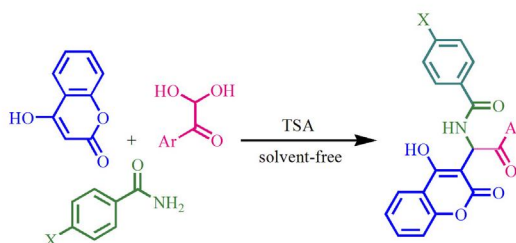
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**Tungstate sulfuric acid catalyzed one-pot synthesis of a new class of aroylamido coumarins under solvent-free conditions**

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


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Sophie Vichier-Guerre, Laurence Dugué, Sylvie Pochet*

*Corresponding author

 Supplementary data available via ScienceDirect

COVER

Synthesis of macrocycles that inhibit protein synthesis: stereochemistry and structural based studies on sanguinamide B derivatives
Tetrahedron Letters **2014**, 55, 6979–6982.

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