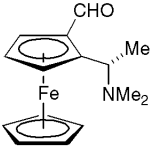

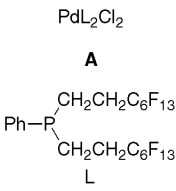
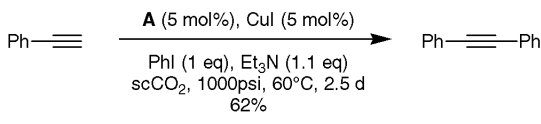
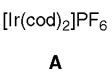
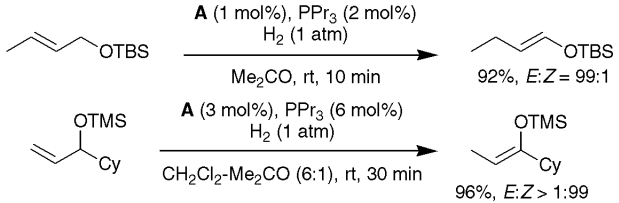


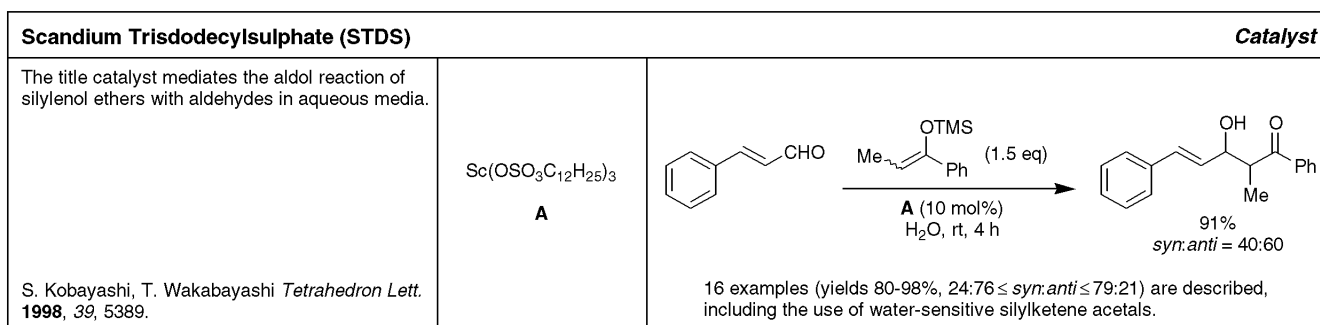
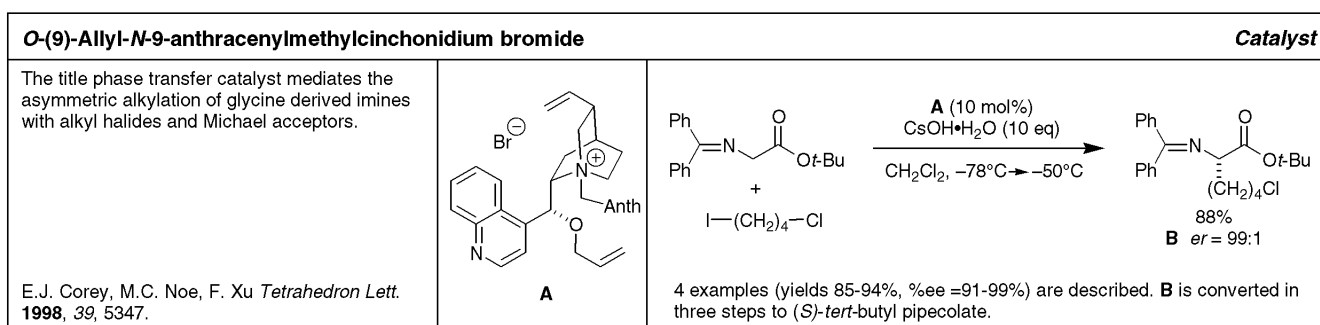
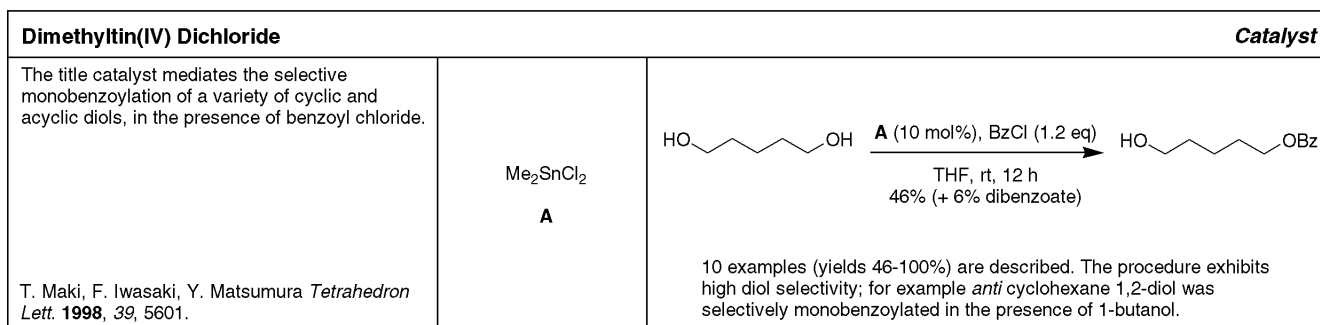
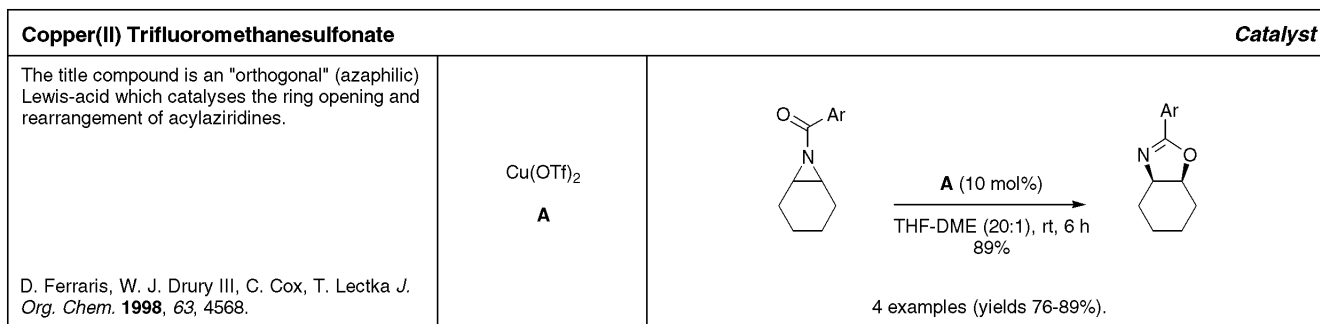
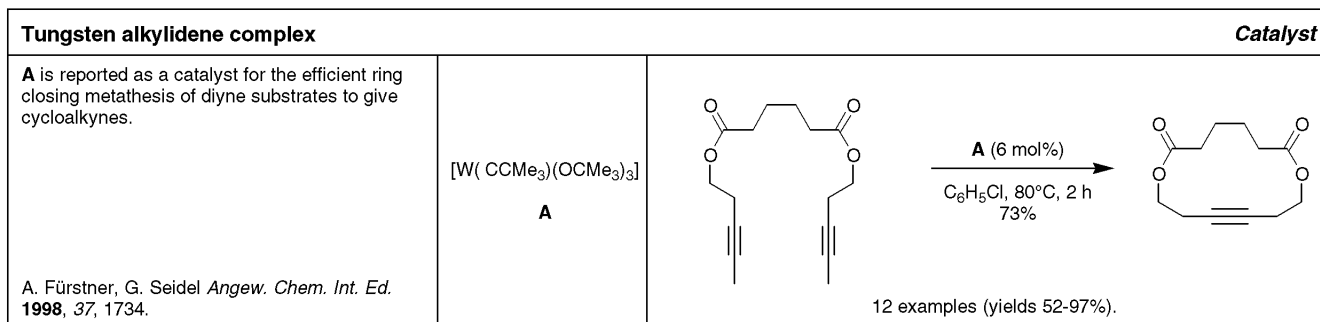
SYNTHESIS ALERTS

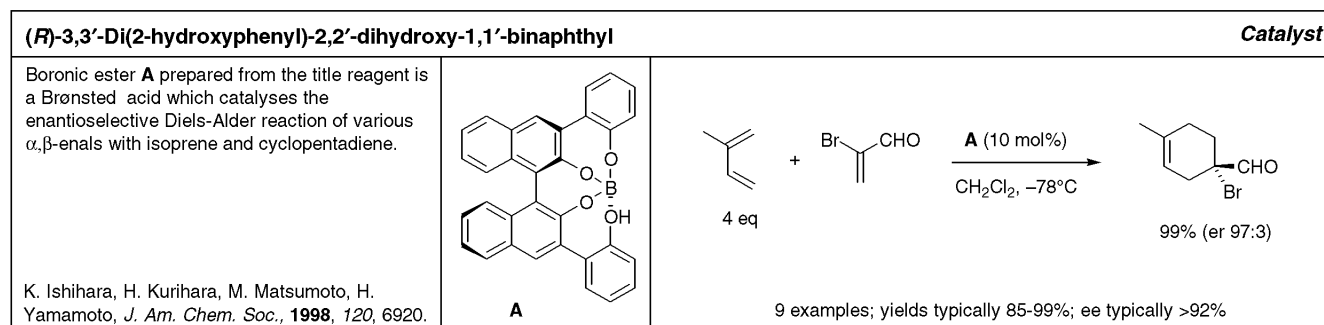
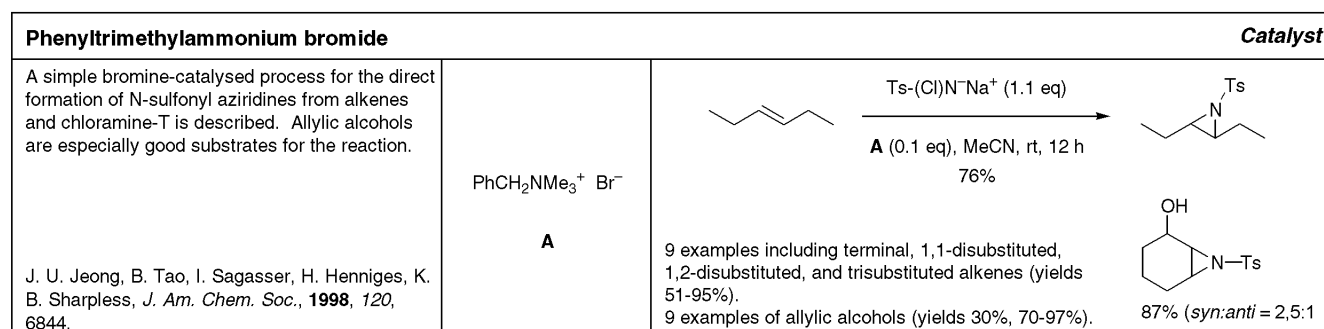
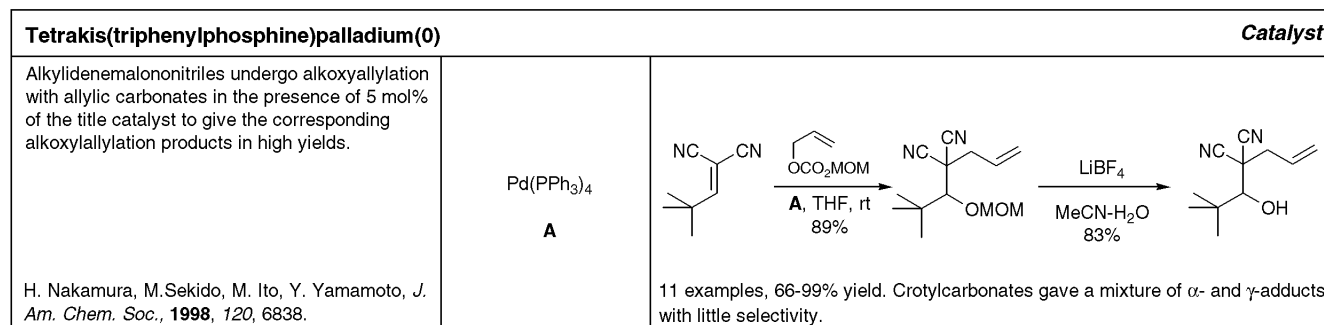
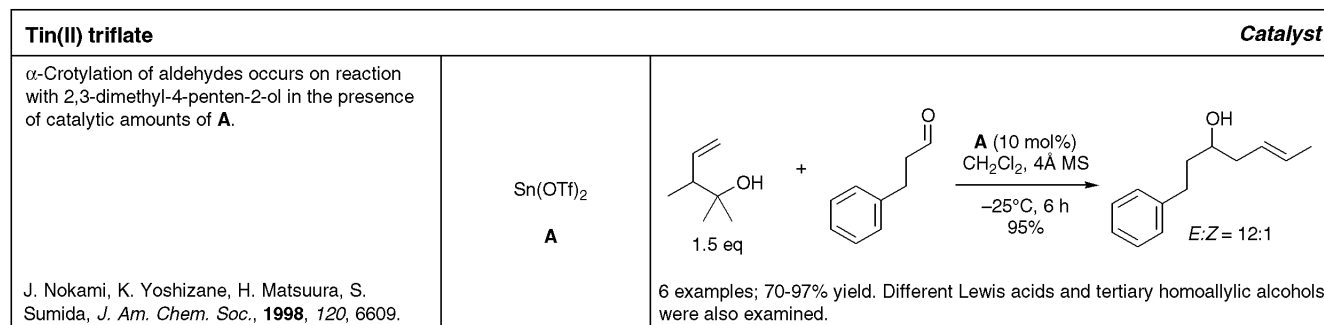
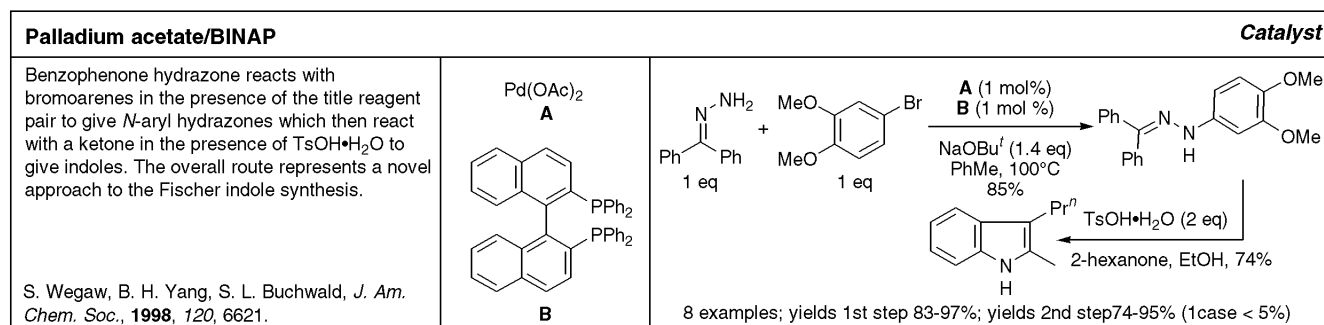
Synthesis Alerts is a new monthly feature to help readers of *Synthesis* keep abreast of new reagents, catalysts, ligands, chiral auxiliaries, and protecting groups which have appeared in the recent literature. Emphasis is placed on new developments but established reagents, catalysts etc are also covered if they are used in novel and useful reactions. In each abstract, a specific example of a transformation is given in a concise format designed to aid visual retrieval of information.

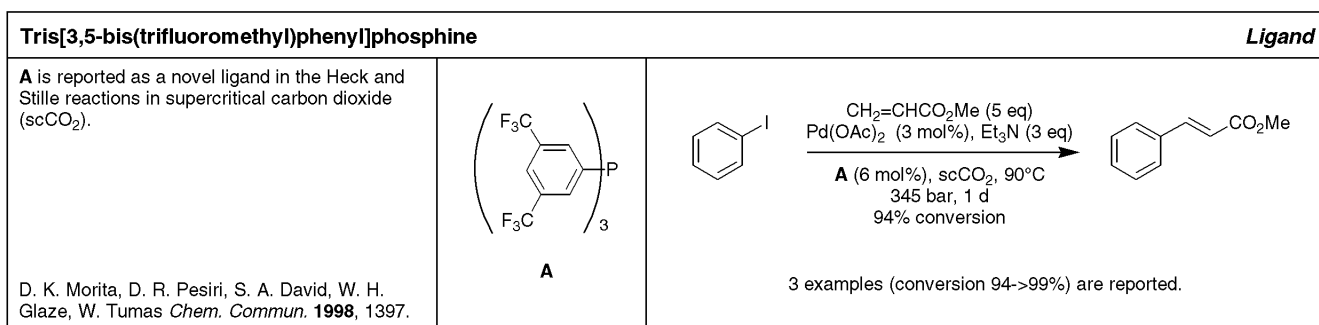
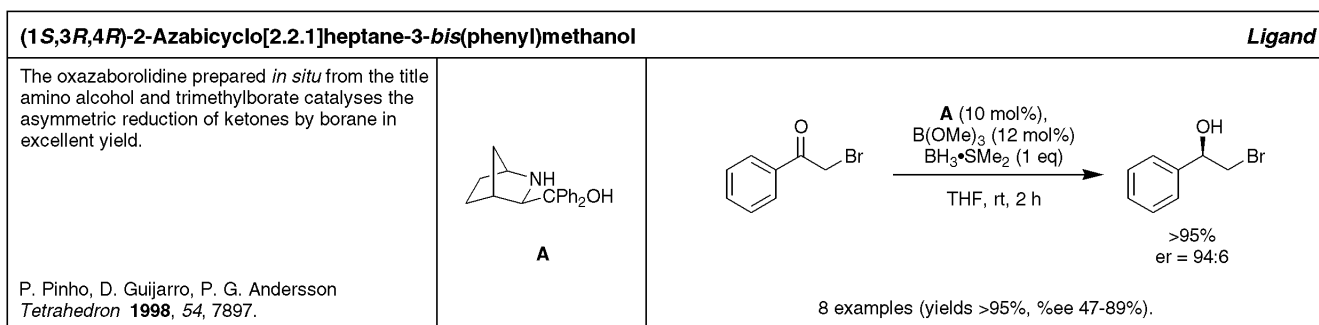
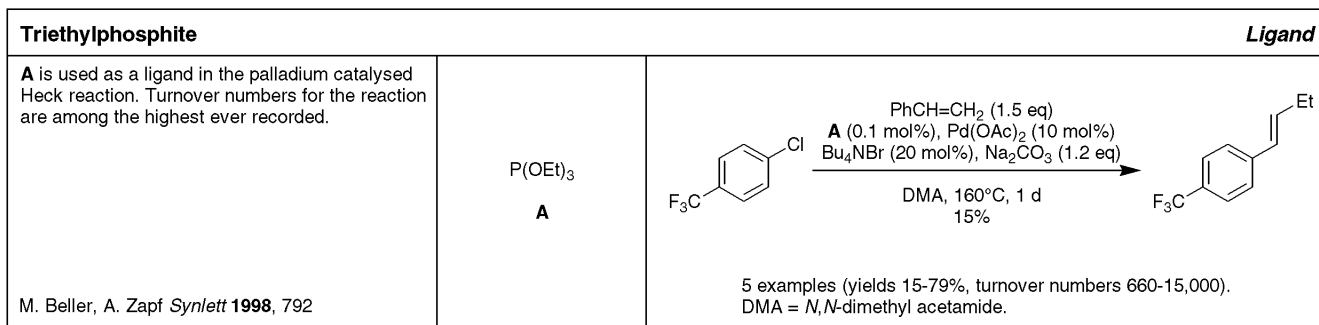
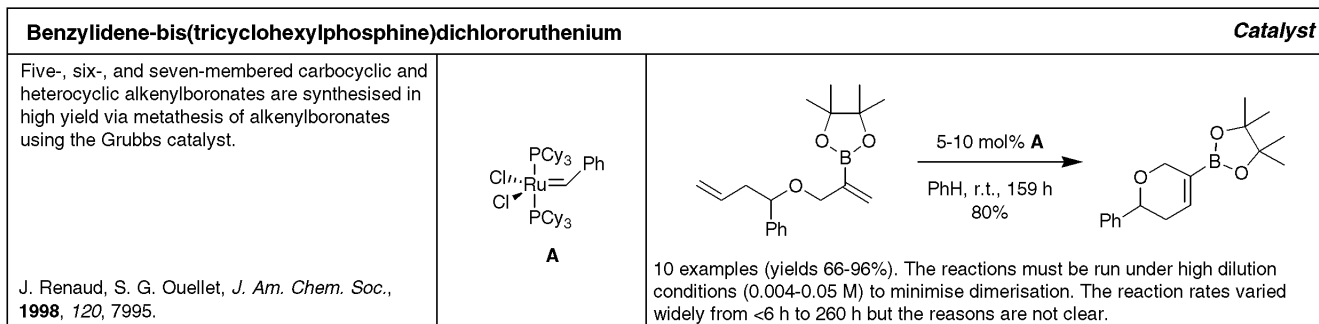
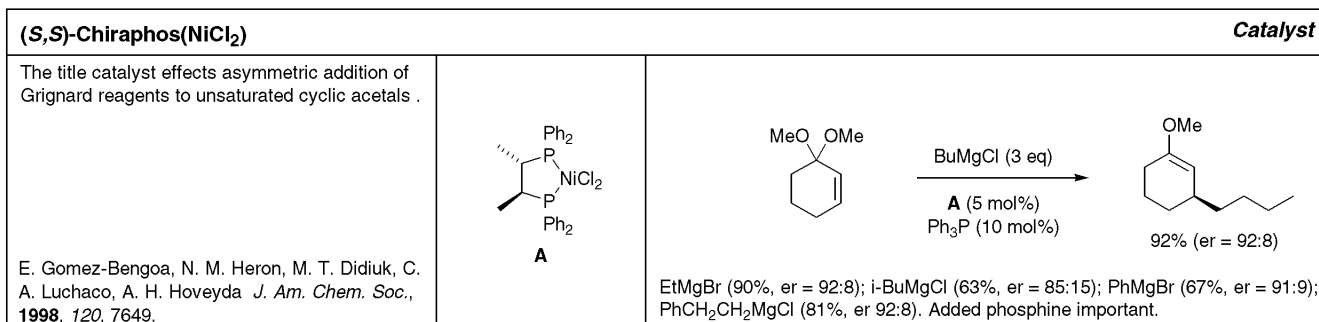
Synthesis Alerts is a personal selection by Stephen Brand, John Christopher, Emma Guthrie, Philip Kocienski, Louise Lea, Alastair McDonald, Graeme McAllister and Robert Narquizian of Glasgow University. The journals regularly covered by the abstractors are: *Angewandte Chemie International Edition*, *Bulletin of the Chemical Society of Japan*, *Chemical Communications*, *Chemistry A European Journal*, *Chemistry Letters*, *European Journal of Organic Chemistry*, *Helvetica Chimica Acta*, *Heterocycles*, *Journal of the American Chemical Society*, *Journal of Organic Chemistry*, *Organometallics*, *Perkin Transactions 1*, *Synlett*, *Synthesis*, *Tetrahedron*, *Tetrahedron Asymmetry* and *Tetrahedron Letters*.

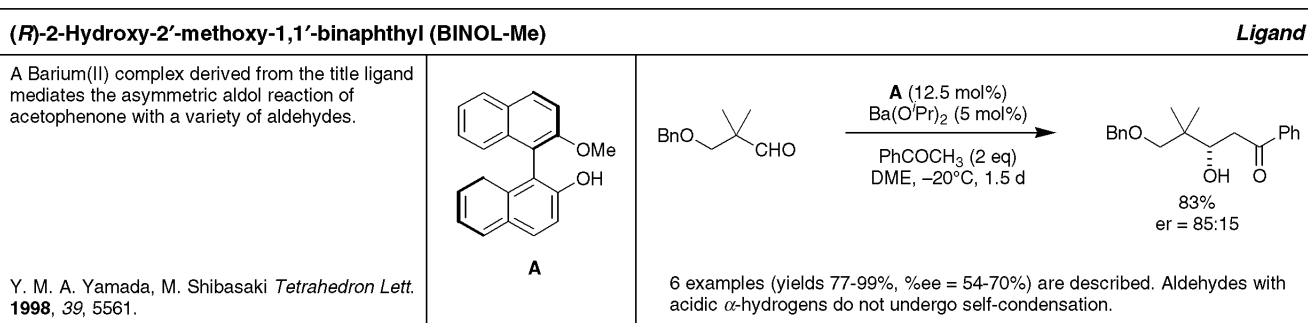
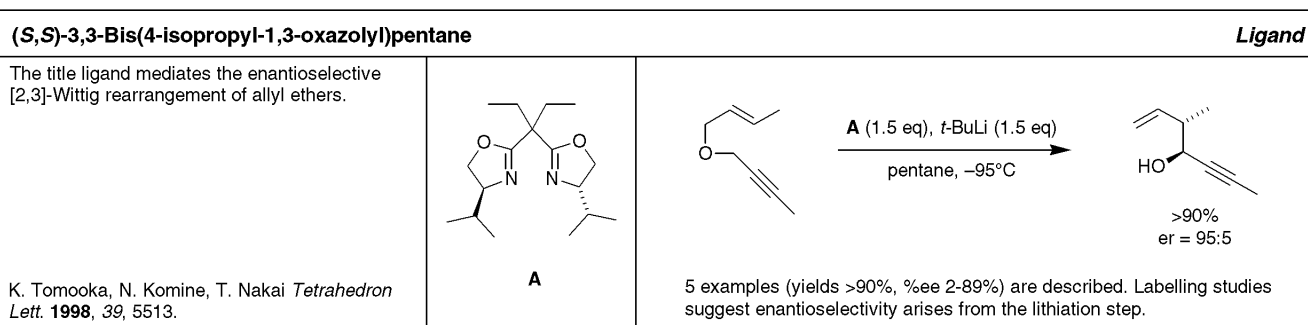
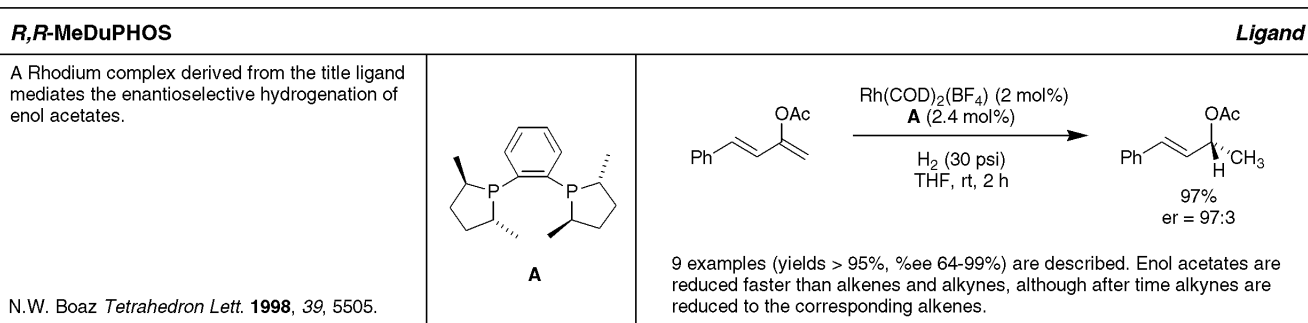
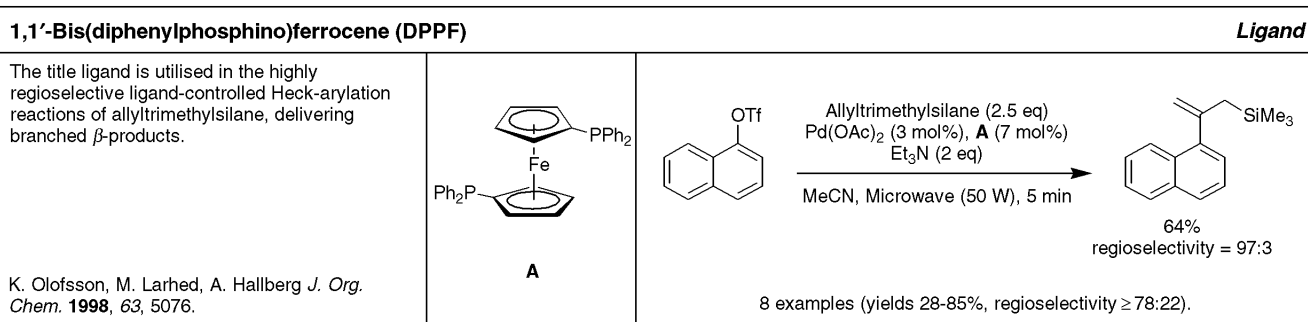
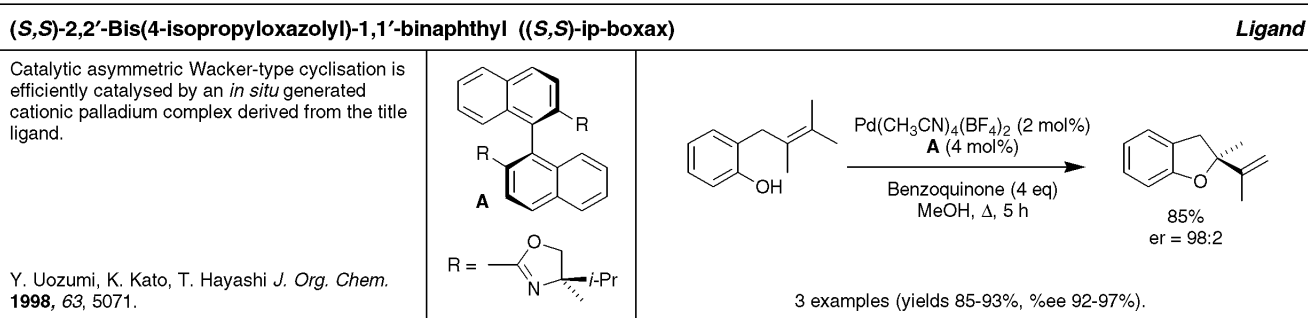
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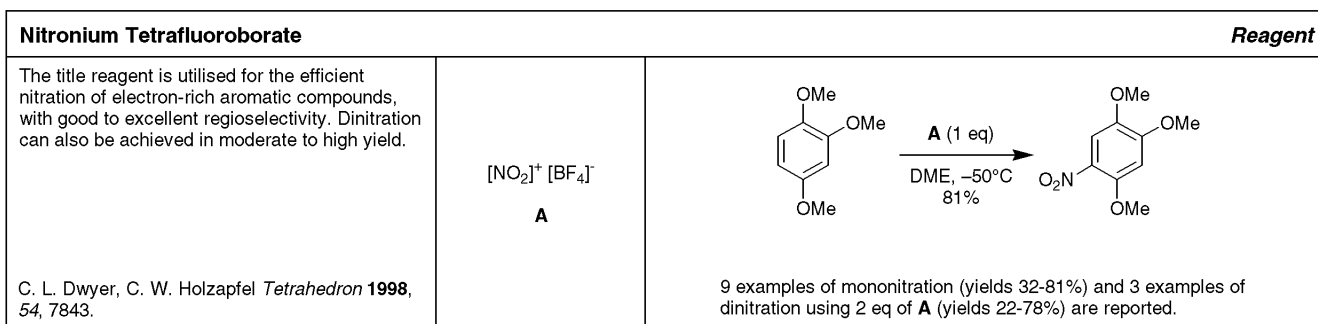
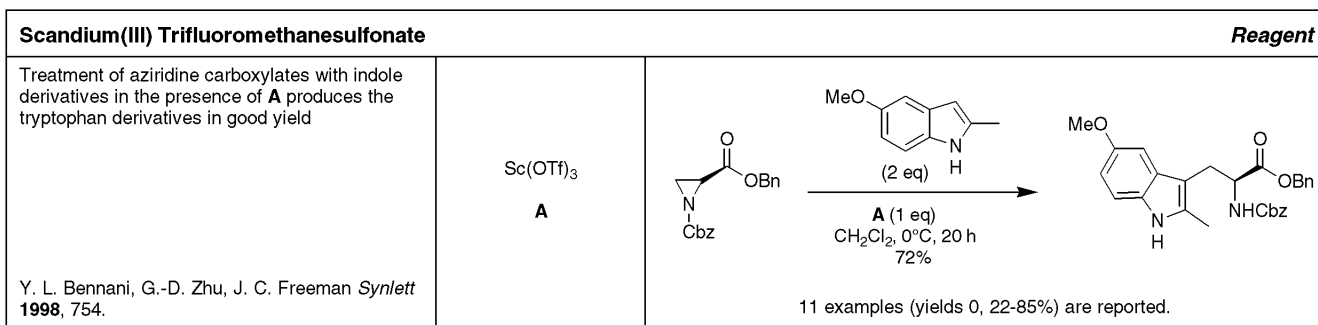
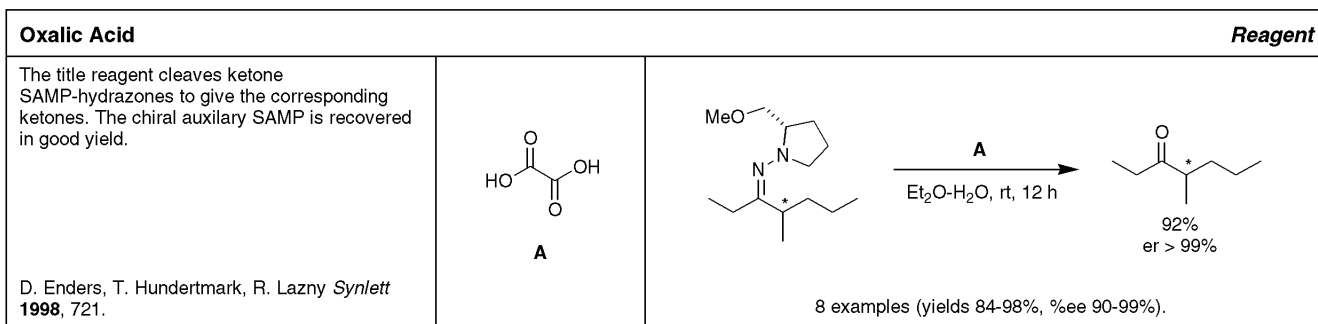
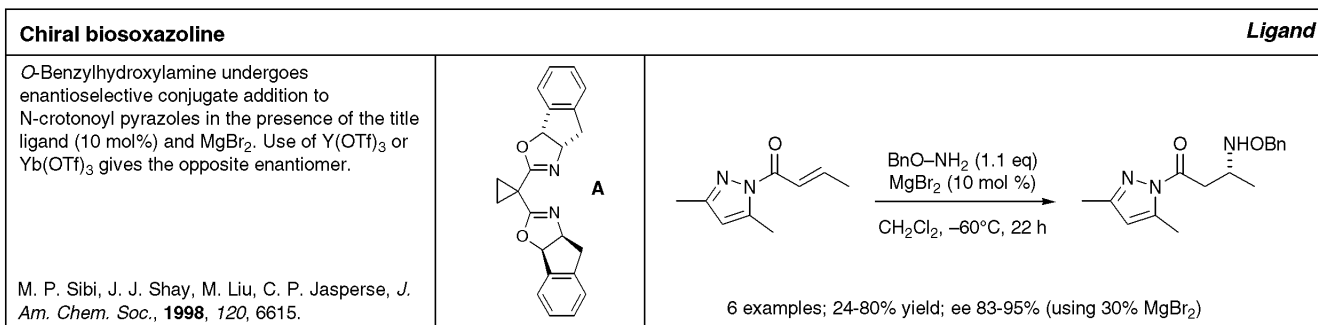
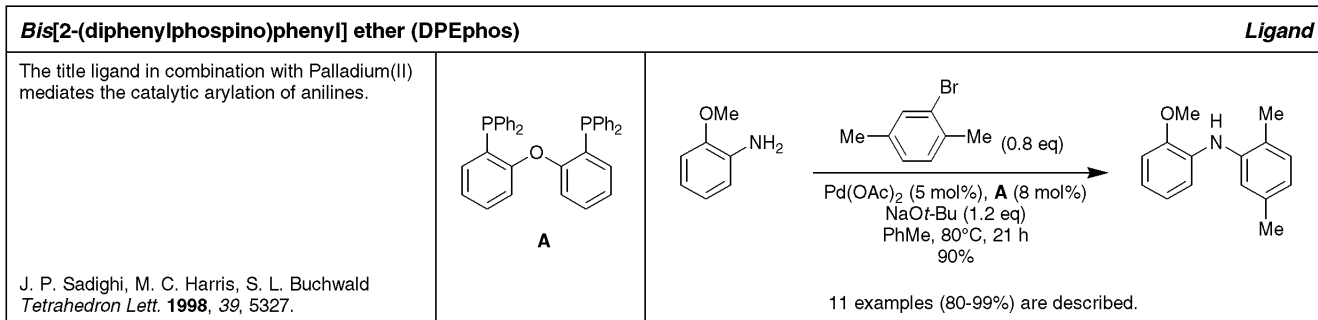
2-(1-Dimethylaminoethyl)ferrocenecarbaldehyde		Catalyst
<p>A is an effective catalyst for the asymmetric alkylation of aldehydes with diethylzinc.</p> <p>S. Fukuzawa, H. Kato <i>Synlett</i> 1998, 727</p>	 <p style="text-align: center;">A</p>	 <p style="text-align: center;">12 examples (yields 55-97%, %ee 80-93%).</p>
Bis[bis(1H,1H,2H,2H-perfluorooctyl)phenylphosphino]palladium dichloride		Catalyst
<p>Novel fluorinated phosphine palladium complexes are prepared and employed as catalysts in carbon-carbon bond forming reactions in supercritical carbon dioxide (scCO₂).</p> <p>M. A. Carroll, A. B. Holmes <i>Chem. Commun.</i> 1998, 1395.</p>	 <p style="text-align: center;">A</p>	 <p style="text-align: center;">6 examples (yields 18-91%).</p>
Bis(cyclooctadiene)iridium hexafluorophosphate		Catalyst
<p>A cationic iridium complex, prepared <i>via</i> the hydrogenation of A is reported as an excellent catalyst for the stereoselective isomerisation of primary allyl silyl ethers to (<i>E</i>)-enol ethers and secondary allyl ethers to (<i>Z</i>)-enol ethers.</p> <p>T. Ohmura, Y. Shirai, Y. Yamamoto, N. Miyaura <i>Chem. Commun.</i> 1998, 1337.</p>	 <p style="text-align: center;">A</p>	 <p style="text-align: center;">5 examples of the formation of <i>E</i>-enol ethers (yields 74-97%, <i>E:Z</i> ≥ 96:4) and 5 examples of <i>Z</i>-enol ether synthesis (yields 71-96%, 28:72 ≤ <i>E:Z</i> ≤ 1:99).</p>

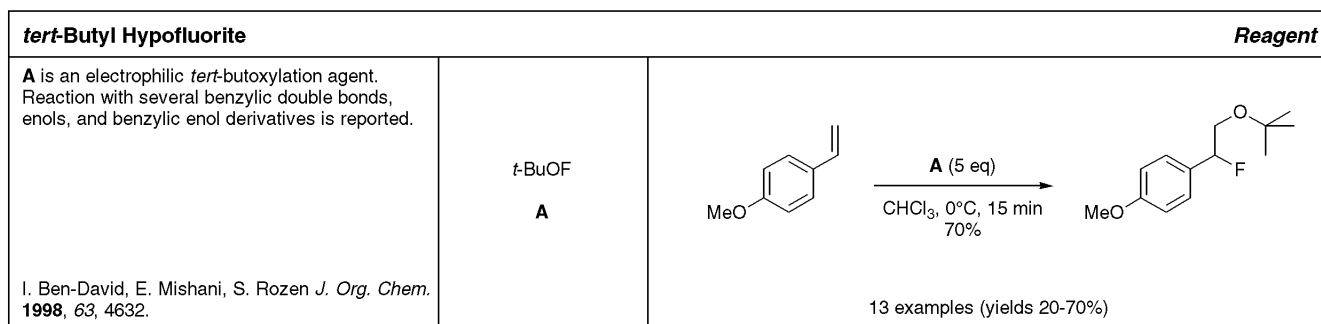
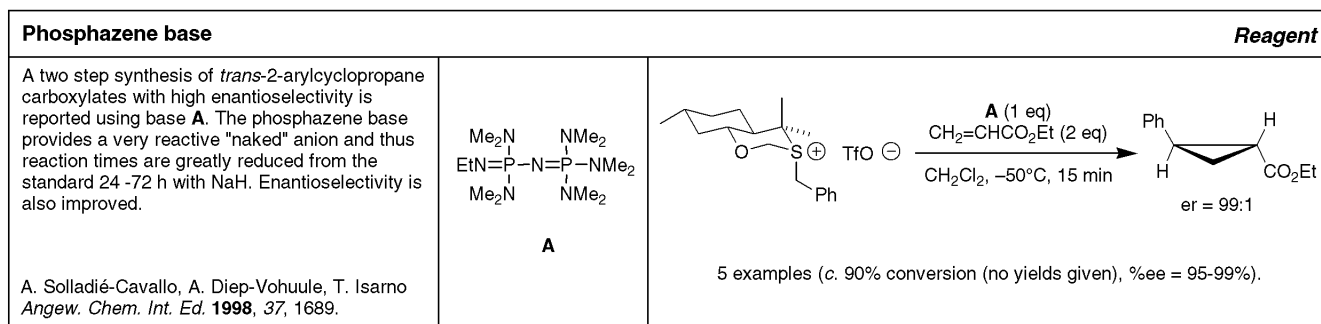
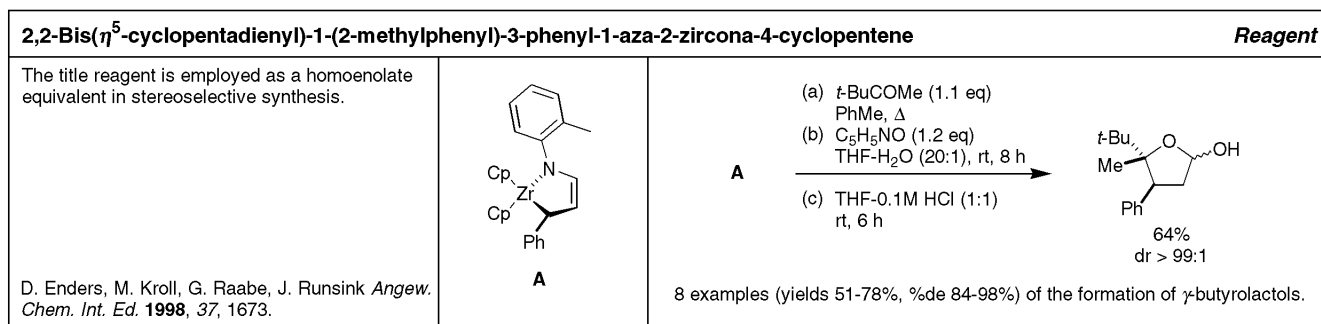
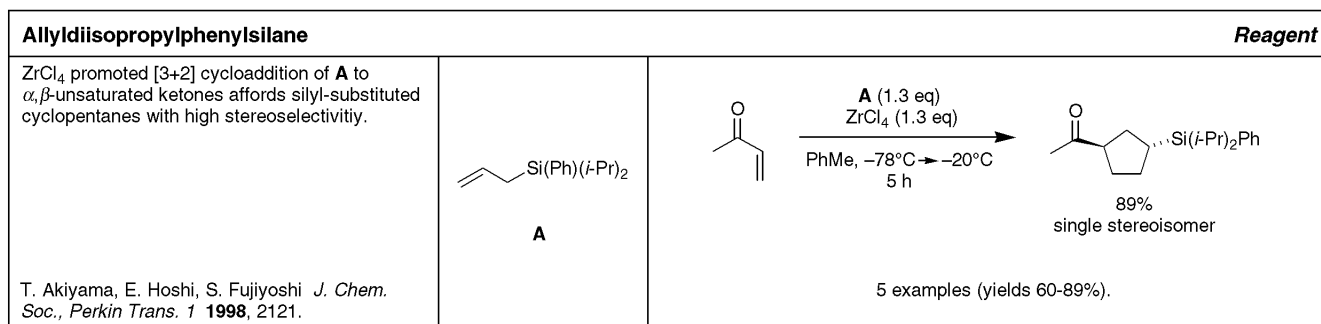
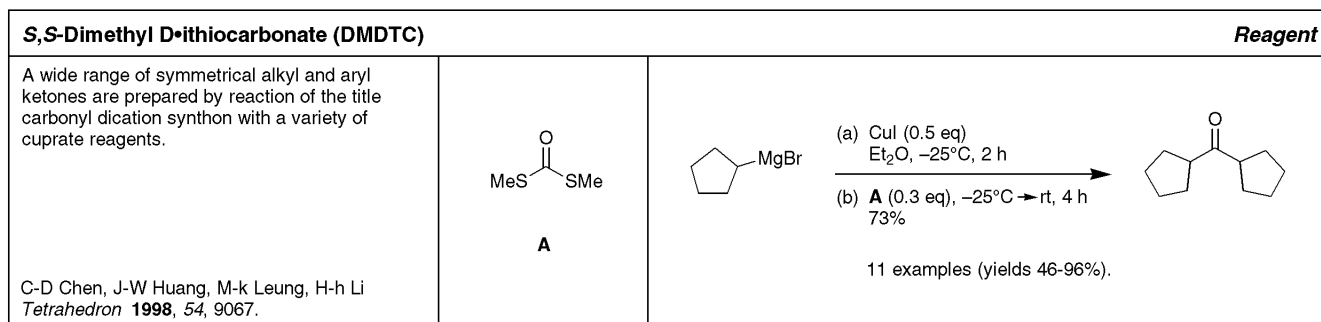


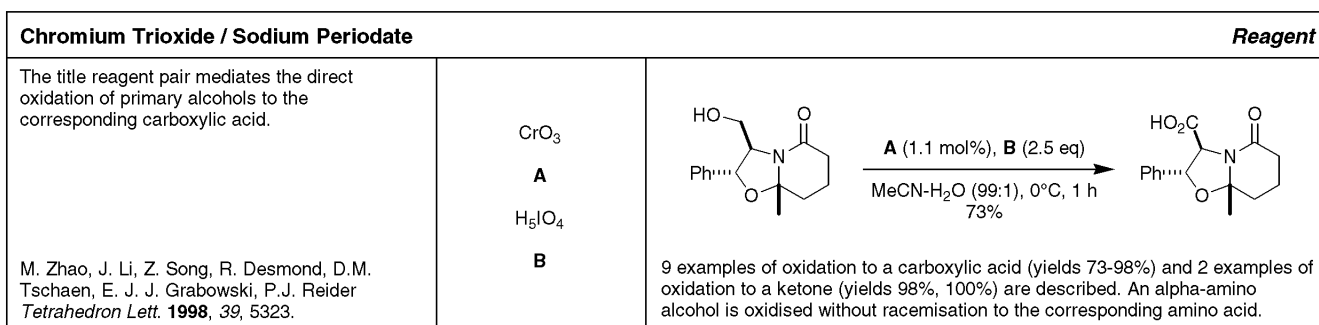
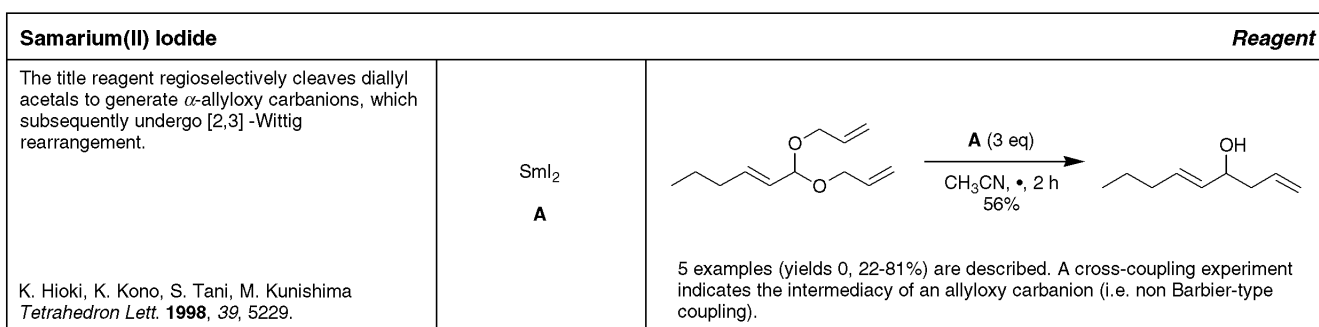
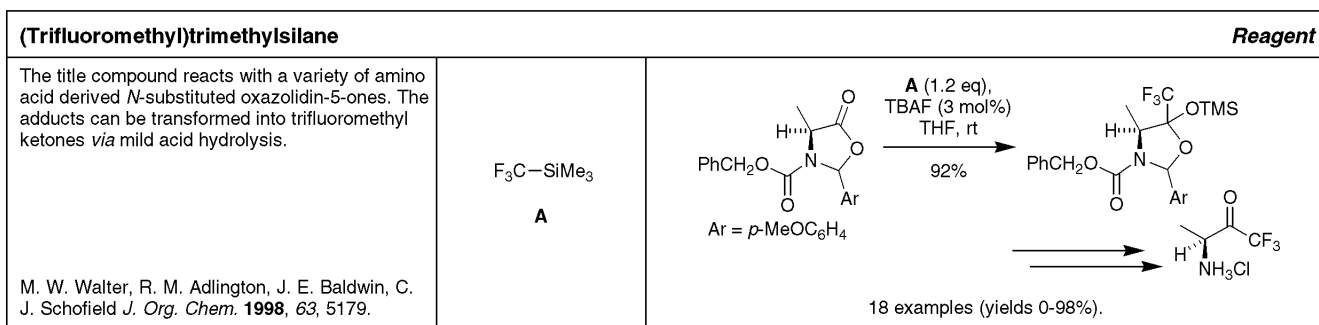
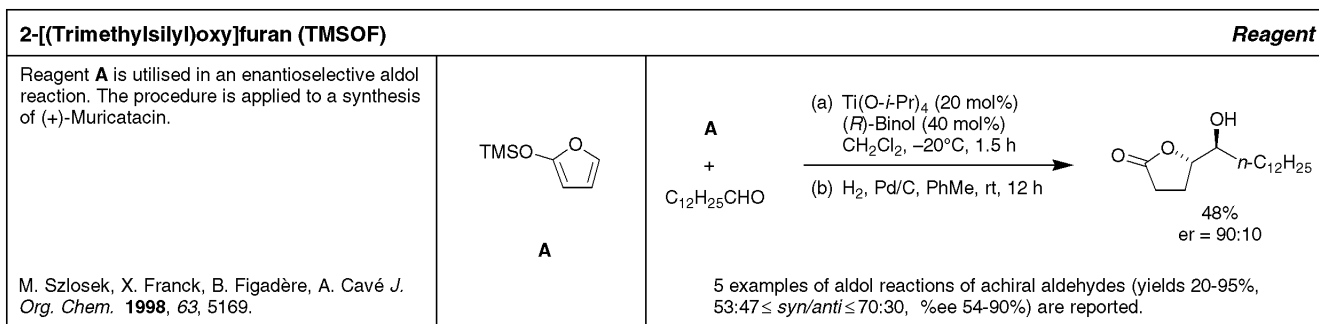
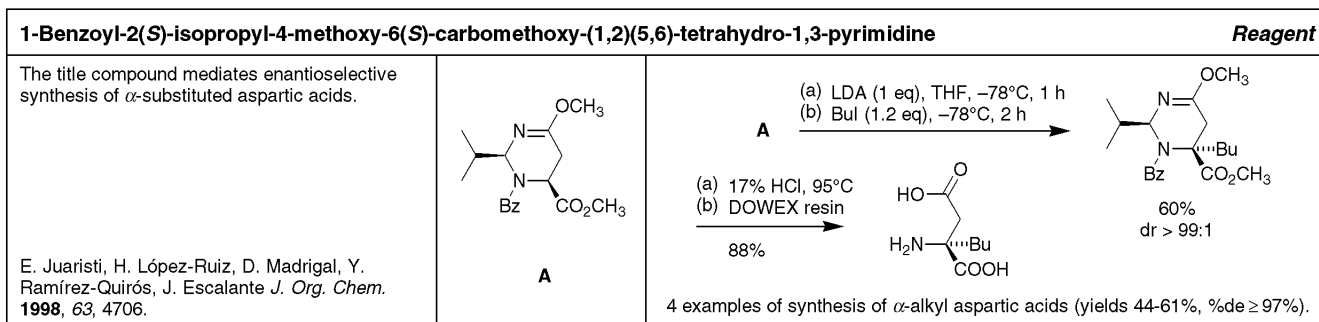












9-Borabicyclo[3.3.1]nonane		Reagent
The title reagent initiates the low-temperature radical reduction of a wide range of typical precursors.		
V. T. Perchyonok, C.H. Schiesser <i>Tetrahedron Lett.</i> 1998 , <i>39</i> , 5437.	A	7 examples are described for the use of Bu ₃ SnH and Ph ₃ SnH as reductants at 0°C and -78°C (yields 52-100%).

Titanium(IV) Isopropoxide / Isopropylmagnesium chloride / Tri-<i>n</i>-butyltin chloride		Reagent
The above reagent trio effects the conversion of propargylic carbonates to propargyl stannanes.	Ti(O <i>i</i> -Pr) ₄ A <i>i</i> -PrMgCl B <i>n</i> -Bu ₃ SnCl C	
D. K. An, S. Okamoto, F. Sato <i>Tetrahedron Lett.</i> 1998 , <i>39</i> , 4861.		11 examples (yields 66-87%) are described. Phenyl substituted alkynes cause partial product isomerisation to the corresponding allenes.

Methyldichlorocerium(III)		Reagent
The title reagent is used to prepare methylketones from the corresponding tertiary amides as an alternative to the Weinreb amide technology.		
M. Kurosu, Y. Kishi <i>Tetrahedron Lett.</i> 1998 , <i>39</i> , 4793.	A	10 examples (yields 0, 20-95%) are described. The reaction has been optimised for the amine such that an excess of A can be used without polyalkylation.

(1<i>S</i>,2<i>S</i>)-<i>N,N'</i>-Bis-[(<i>S</i>)-α-phenylethyl]-cyclohexane-1,2-diamine		Reagent
A new chiral derivatising agent derived from the title compound is described which allows the enantiomeric purities of chiral alcohols to be determined by ³¹ P NMR spectroscopy.		
C. Anaya de Parrodi, G. E. Moreno, L. Quintero, E. Juaristi <i>Tetrahedron: Asymmetry</i> 1998 , <i>9</i> , 2093.	A	6 examples of the derivatization of alcohols. Very large differences in the ³¹ P chemical shifts for the diastereomeric phosphonamides are observed.

Triisopropylsilanethiol		Reagent
The title reagent has been employed for the synthesis of 2-(triisopropylsilyloxy)alkylthiols from epoxides.	$(i\text{-Pr})_3\text{Si-SH}$ A	
J. C. Justo de Pomar, J. A. Soderquist <i>Tetrahedron Lett.</i> 1998 , <i>39</i> , 4409.		9 examples (yields 59-92%) are described.

