

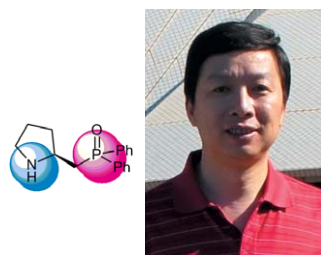
Cluster

Hisashi Yamamoto
Editor
The University of Chicago

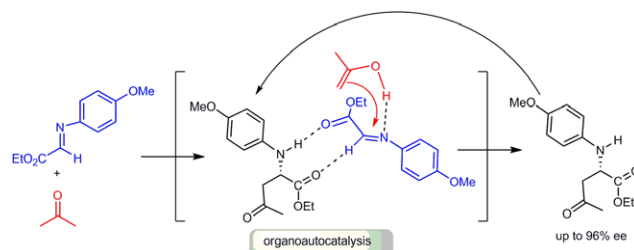
Benjamin List
Co-Editor
Max-Planck-Institut für Kohlenforschung
Mülheim an der Ruhr, Germany

Proline is one of the most important organocatalysts. The importance of this special molecule is still increasing and we decided to focus on proline and proline-derived catalysts as topics of this Cluster. The introduction by Professor Benjamin List, as one of the founder of this field, is memorable.

Hisashi Yamamoto



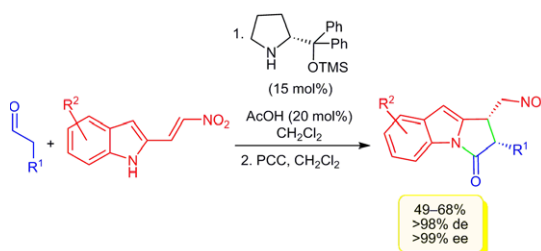
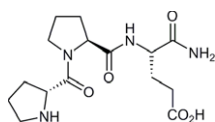
G. Zhong



S. B. Tsogoeva



H. Wennemers

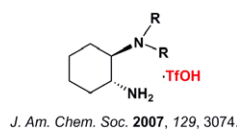


D. Enders

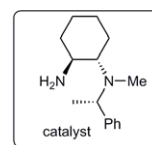
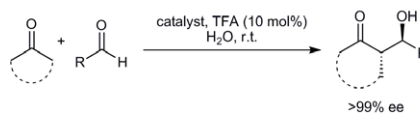
Proline and Proline-Based Organocatalysis



S. Luo



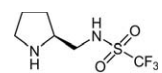
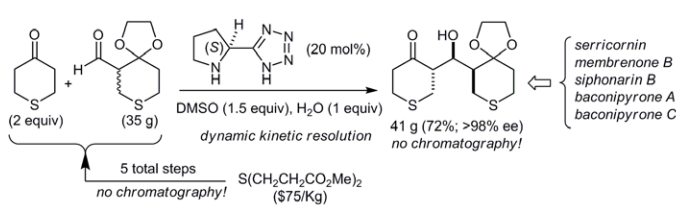
J. Am. Chem. Soc. **2007**, *129*, 3074.



V. K. Singh



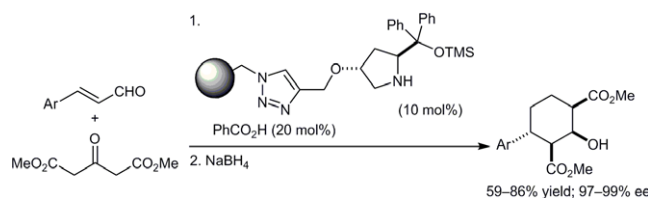
D. E. Ward



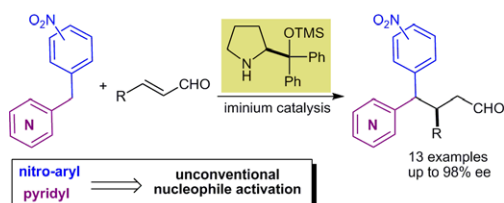
W. Wang



M. A. Pericàs



Y. Hayashi

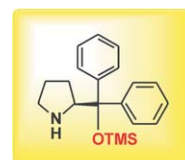


nitro-aryl pyridyl \Rightarrow unconventional nucleophile activation

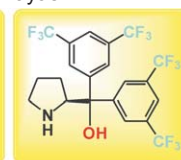
13 examples up to 98% ee



P. Melchiorre



diphenylprolinol silyl ether



diarylprolinol