

The Chemical Society of Japan (<http://www.chemistry.or.jp/en/>)

- Established in 1878 by Mitsuru Kuhara
- Japanese first and biggest chemical society
- World's 2nd biggest chemistry society
- 40,000 members
- Host of PacifiChem

Annual symposium in March
– 10,000 participants, 6,000 presentation

Publications

- Bulletin of the Chemical Society of Japan
- Chemistry Letters
- The Chemical Record
- Chemistry - An Asian Journal
- Asian Journal of Organic Chemistry
- ChemNanoMat



Mitsuru Kuhara

and many Japanese journals...

Bulletin of the Chemical Society of Japan

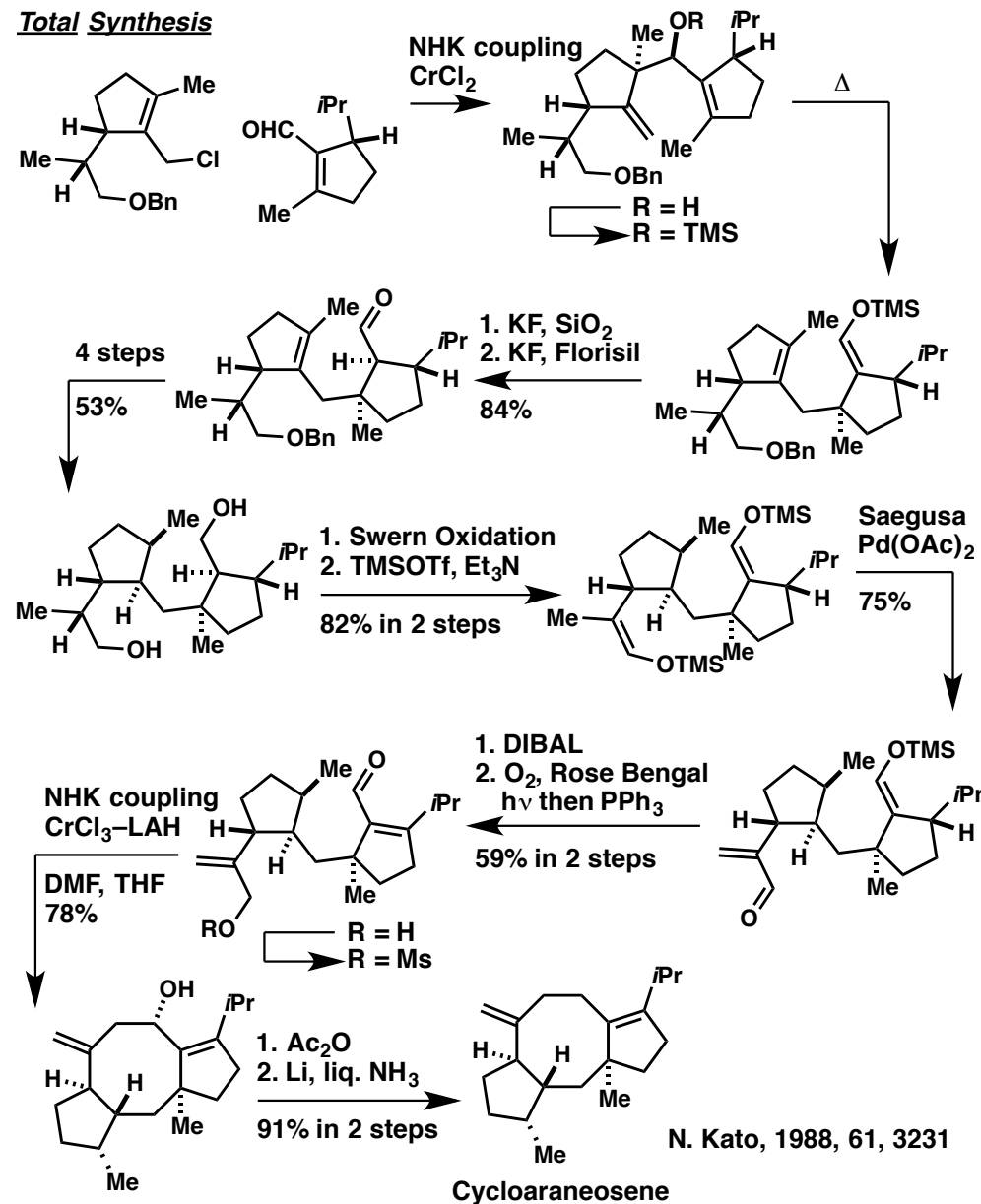
- Written in English!
- Almost only Japanese publishes
- First issue came out in 1926
- Current impact factor 2.22
- Total citations 995
- Articles published before 1991 are open access
- Scipps does not subscribe BCSJ...
- Due to WW II publication was suspended in 1945 and 1946
- Theoretical Chemistry, Organic chemistry, Physical chemistry, Inorganic chemistry, Biochemistry, Applied chemistry, Material chemistry etc...

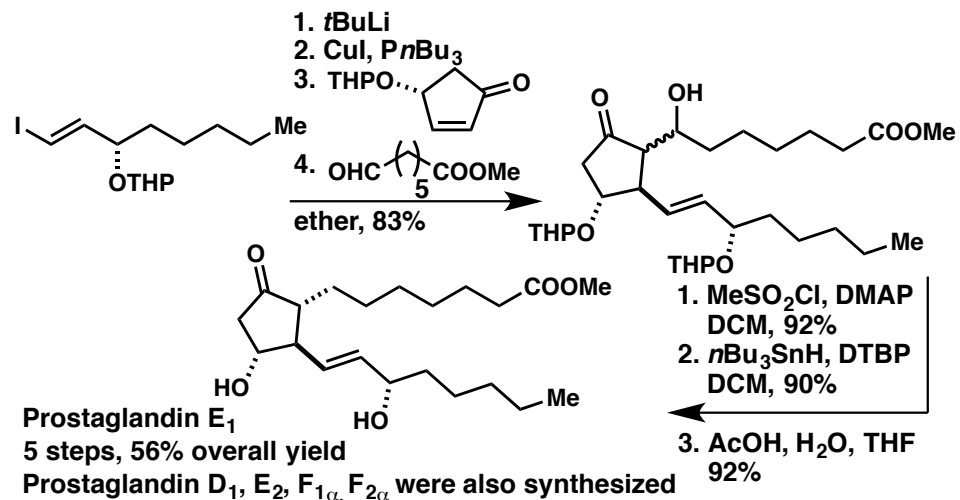
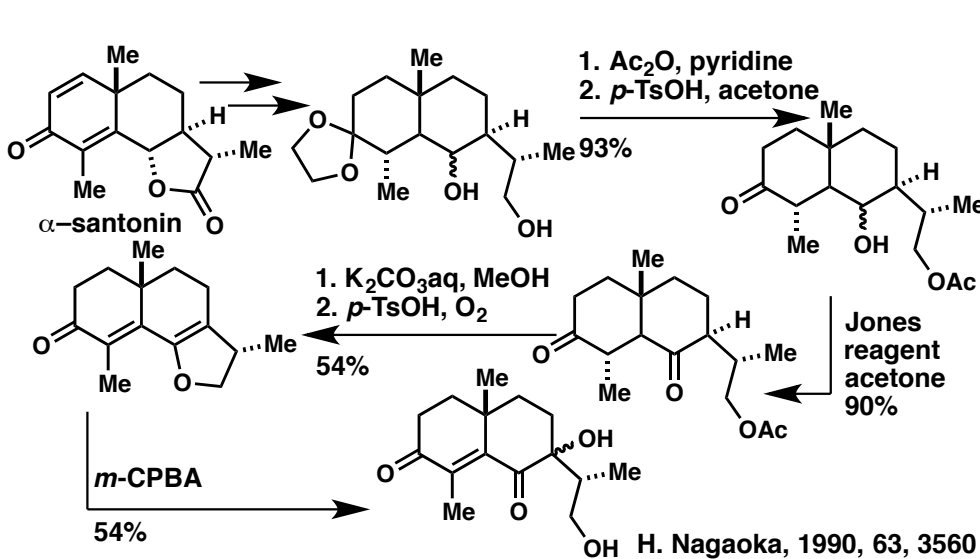


This Review

- Cover 1990–1986; 20,822 pages
- Approximately 70% of papers dealt with organic chemistry
- Many invited papers in 1988 (which are not covered by this review)
- Jack D. Dunitz, Jack Halpern, Allen J. Bard, James Alexander Morrison, Raphael David Levine, Barry Martin Trost, Gilbert Stork, Gerald Scott, Robert Howard Grubbs

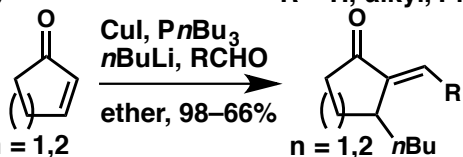
Total Synthesis



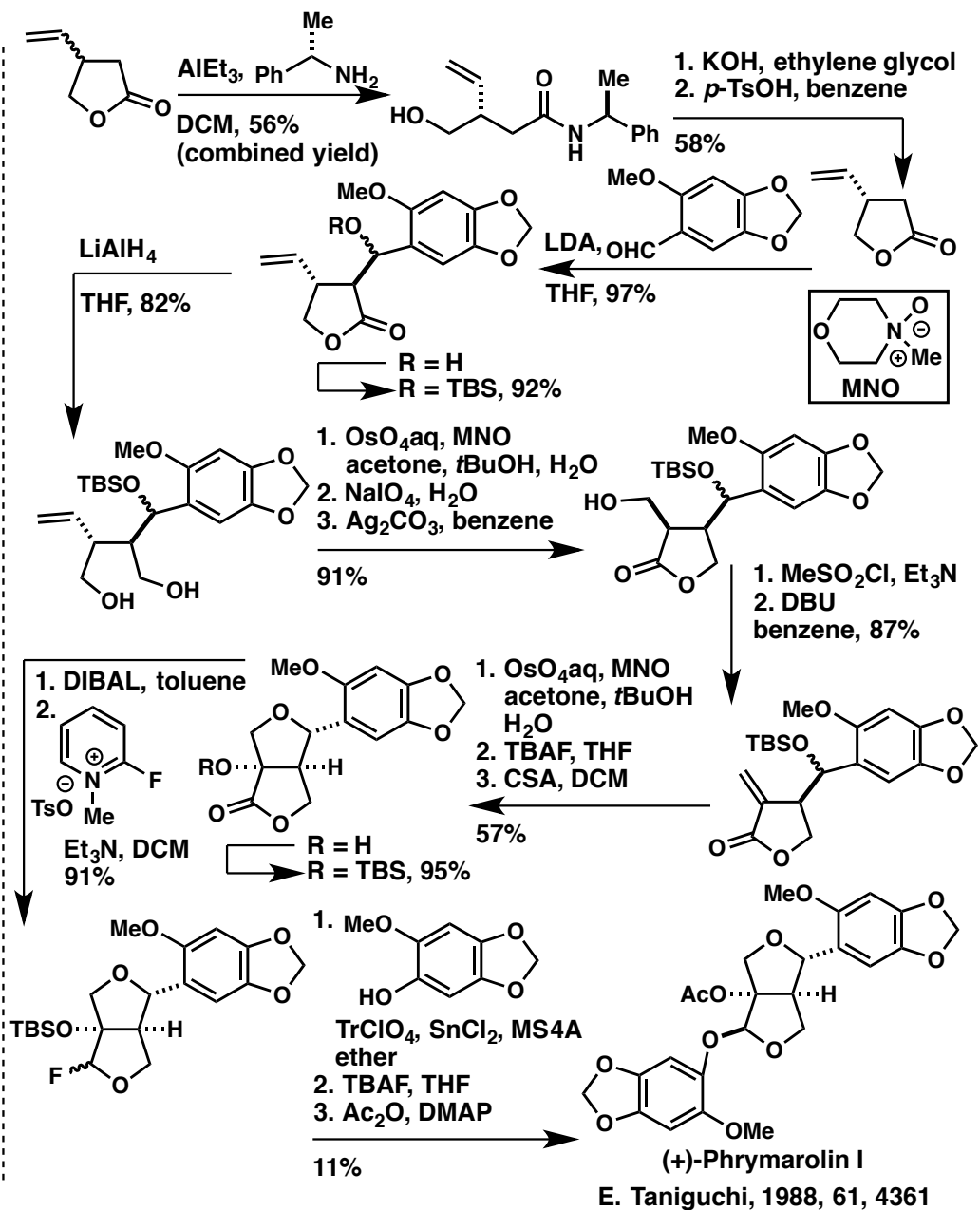


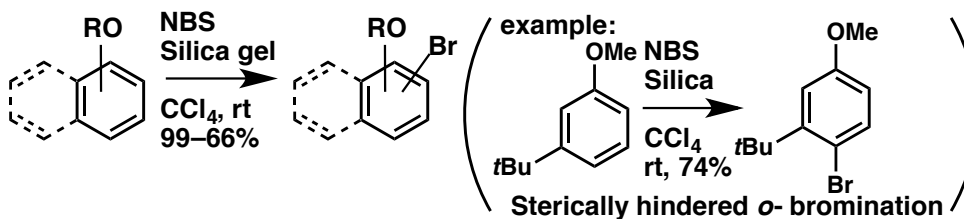
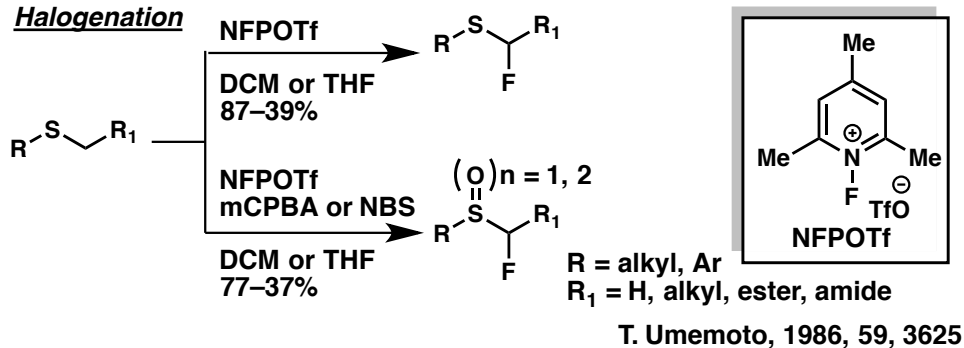
Key reaction

R = H, alkyl, Ph



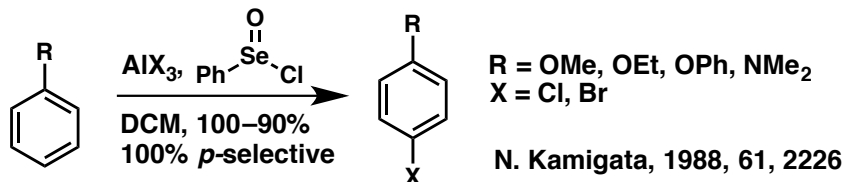
R. Noyori, 1988, 61, 1299



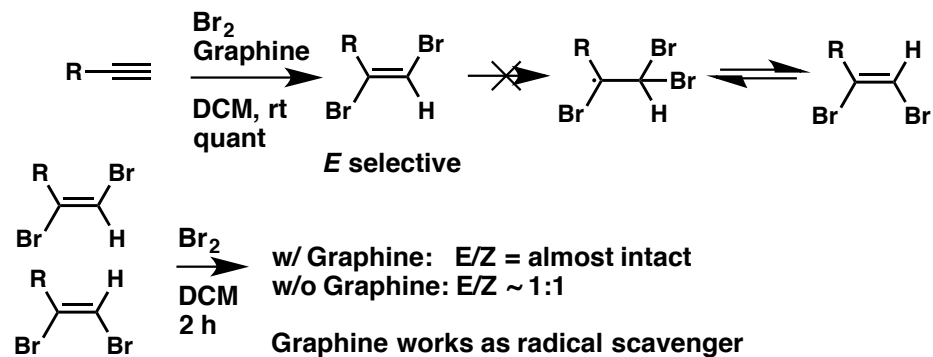
Halogenation

Neutral and basic silica gels gave better selectivity but poor yield
Results highly depend on brand of silica gel

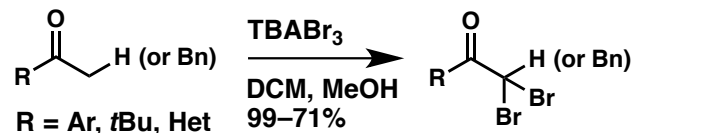
H. Konishi, 1989, 62, 591



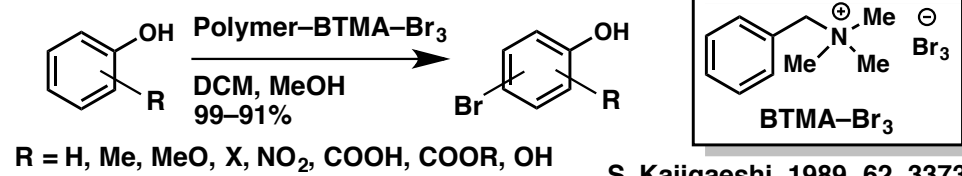
M. Yoshida, 1990, 63, 3704



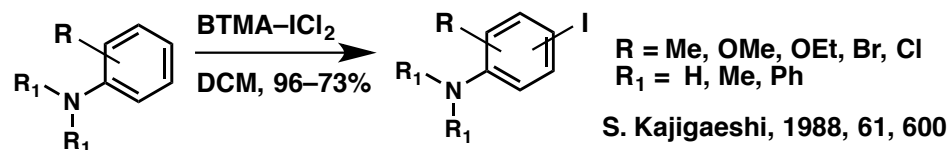
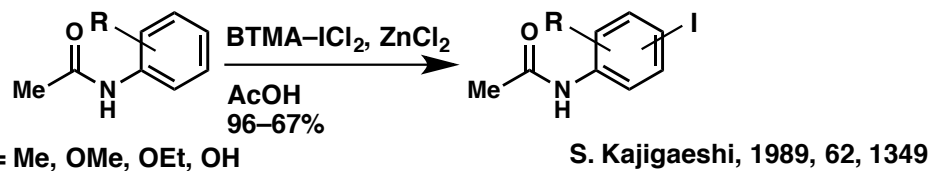
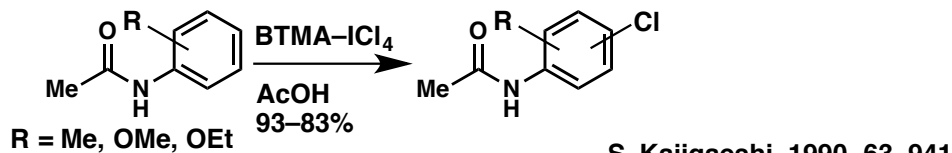
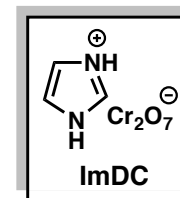
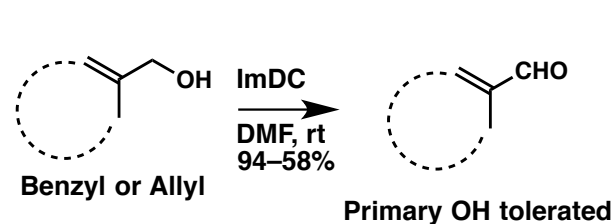
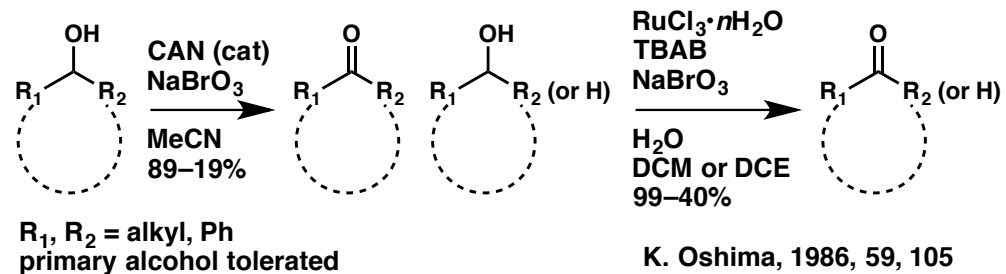
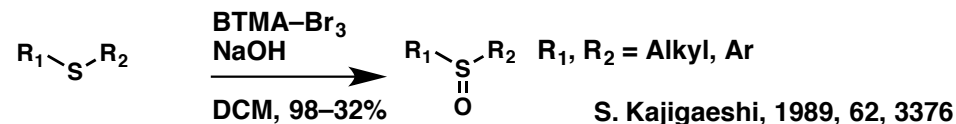
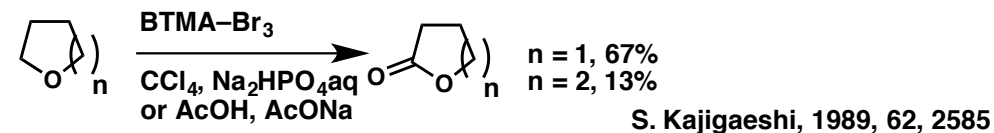
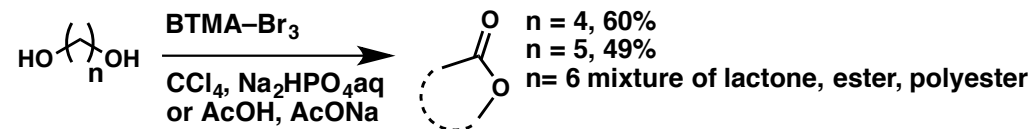
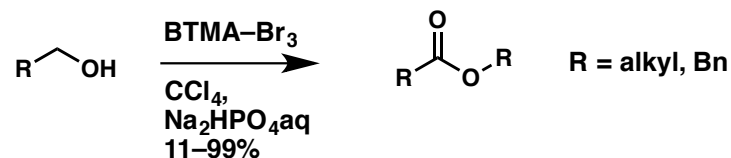
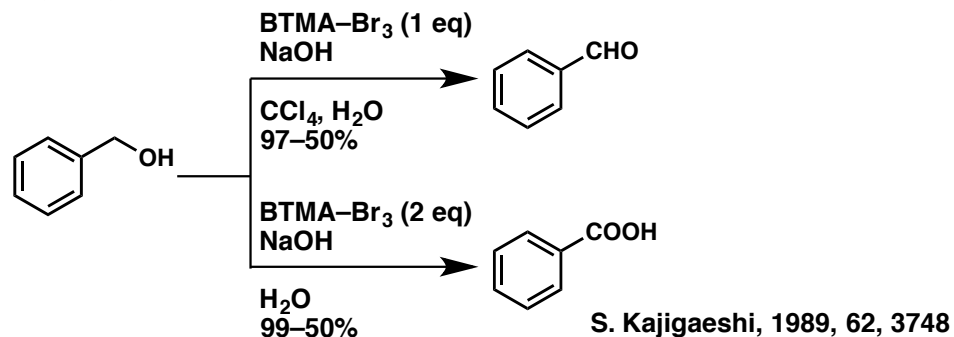
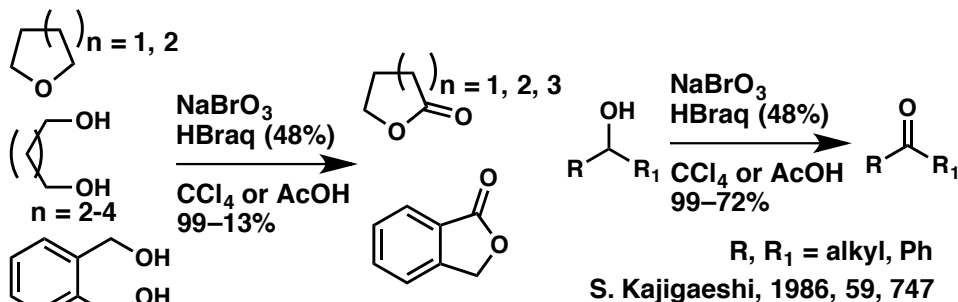
M. Kodomari, 1989, 62, 4053



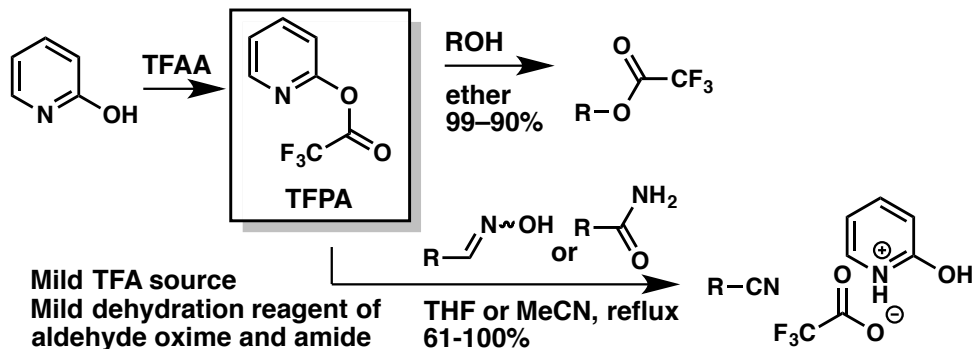
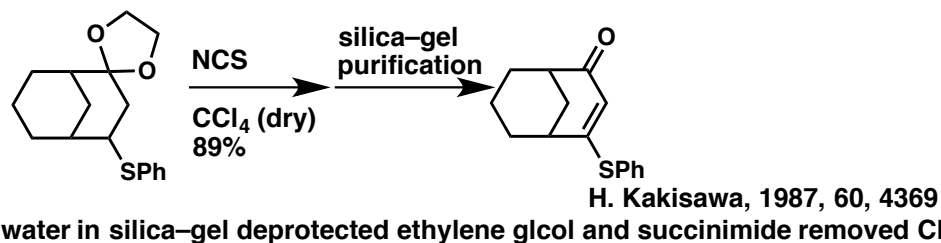
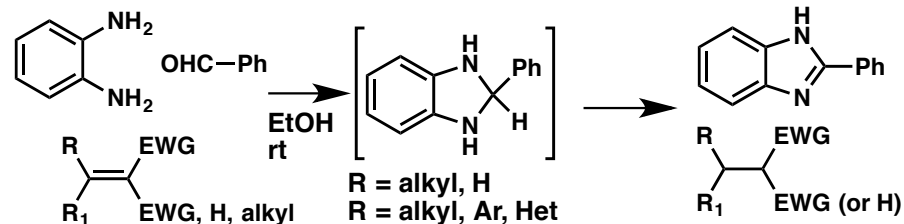
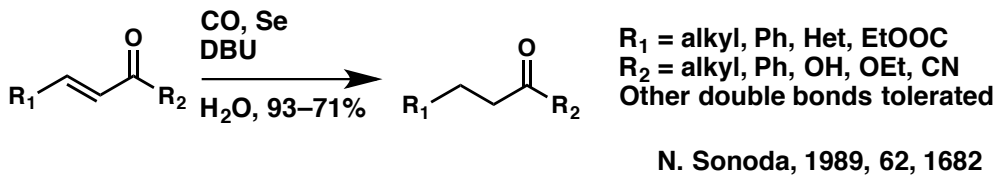
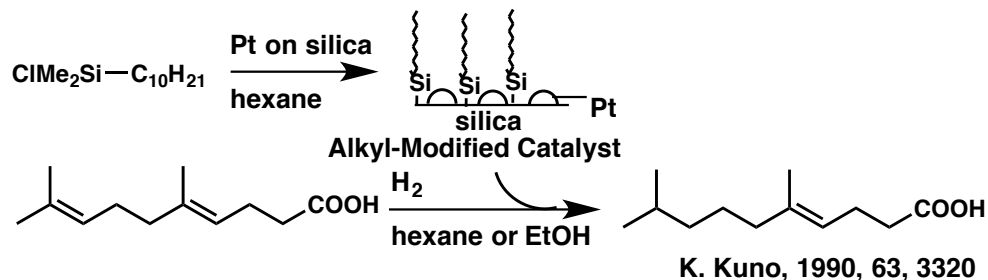
S. Kajigaeshi, 1987, 60, 2667
1987, 60, 1159



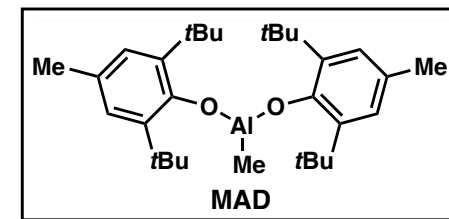
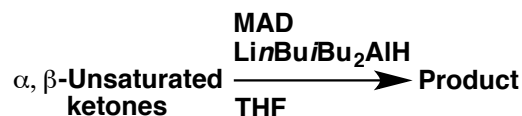
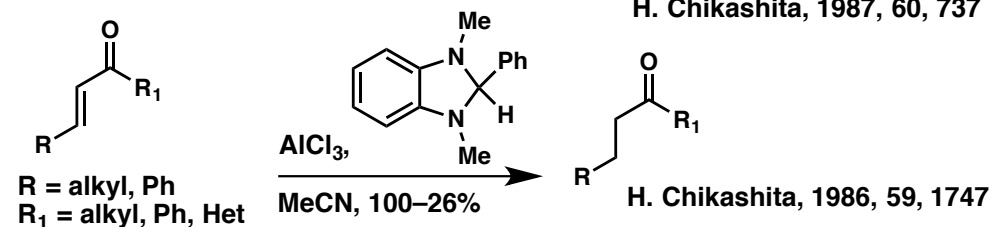
S. Kajigaeshi, 1989, 62, 3373

**Oxidation**

S. Kim, 1986, 59, 3297

Reduction

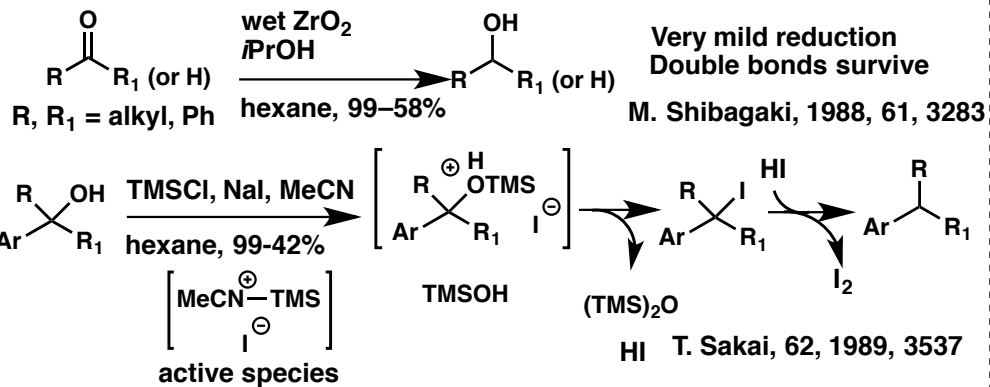
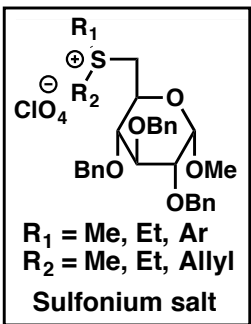
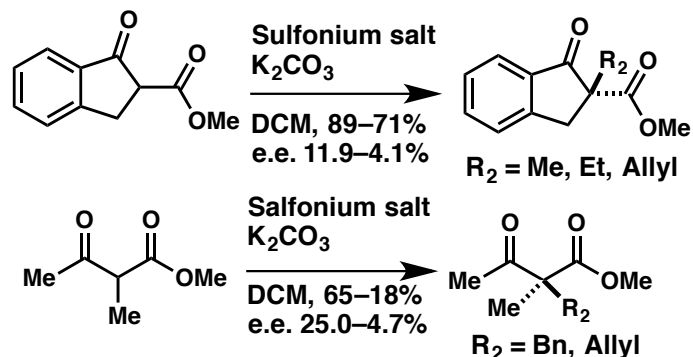
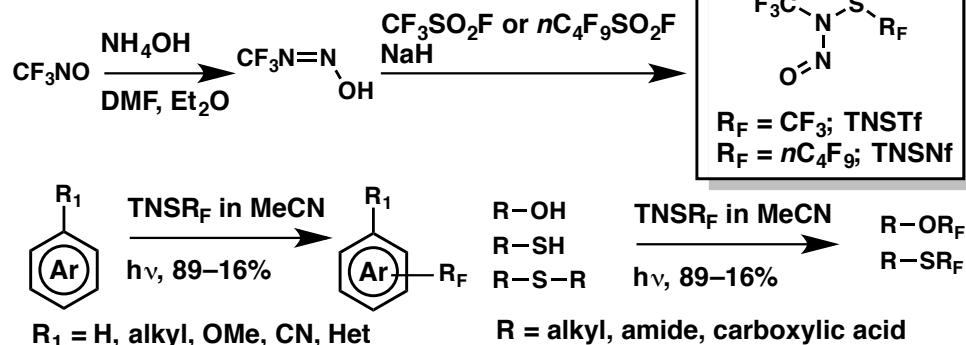
H. Chikashita, 1987, 60, 737



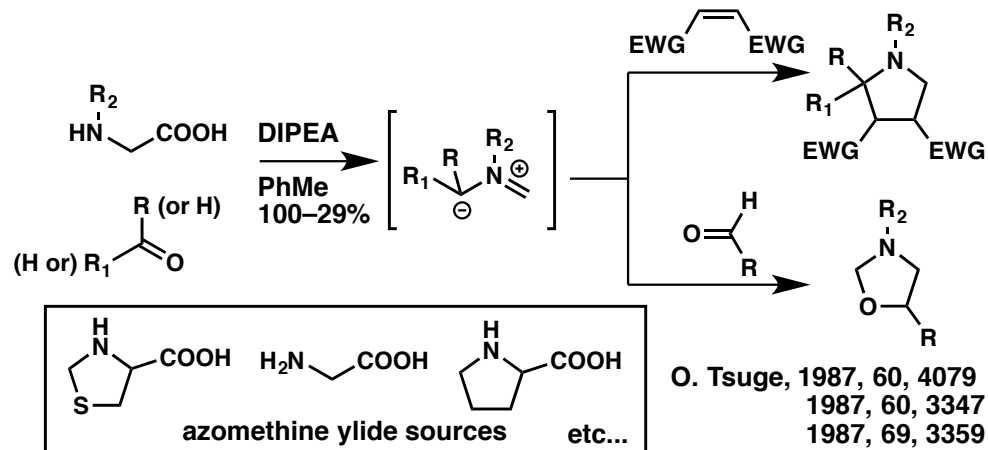
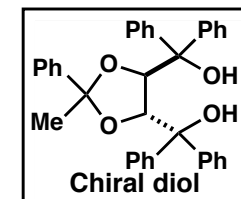
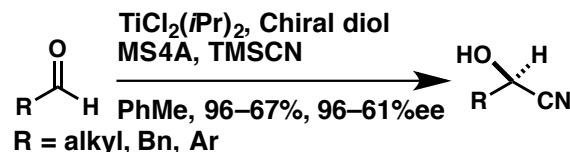
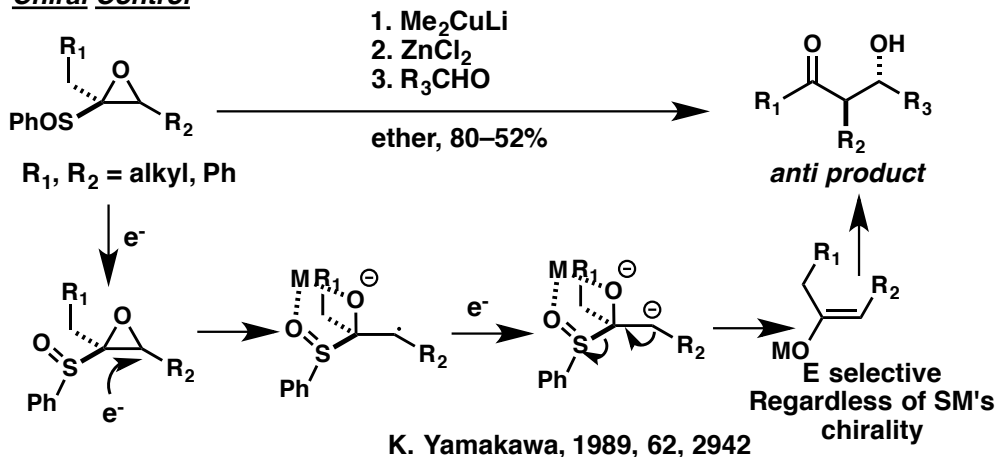
1,4-reduction	68	76	0	0
1,2-reduction	0	0	74	99

sterically less demanding carbonyl was reduced even in presence of MAD

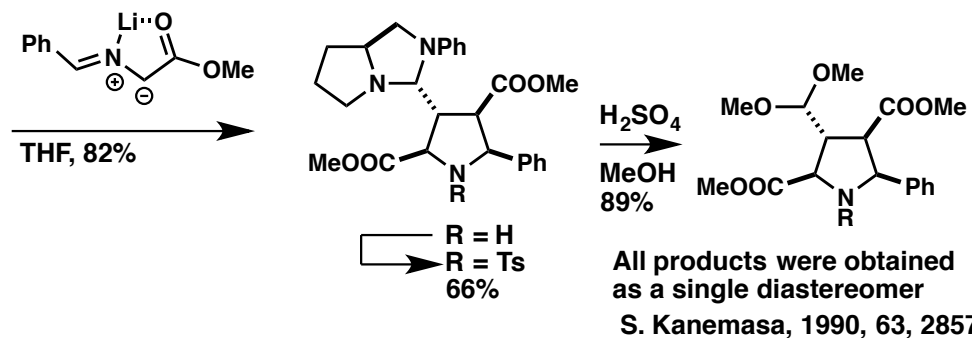
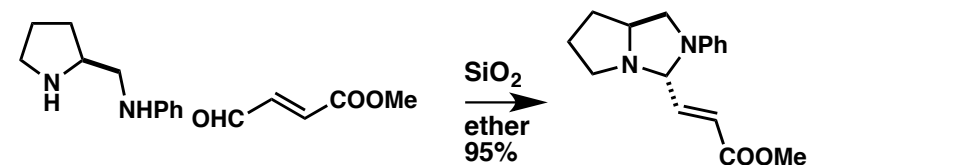
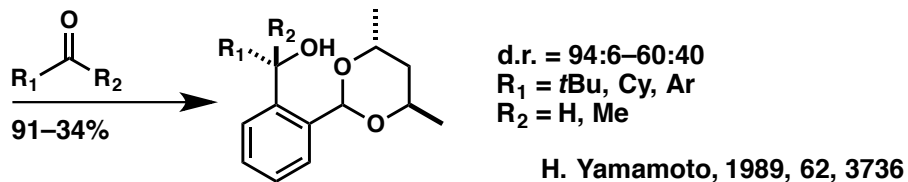
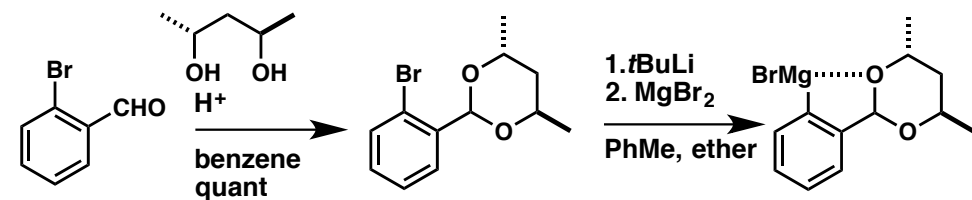
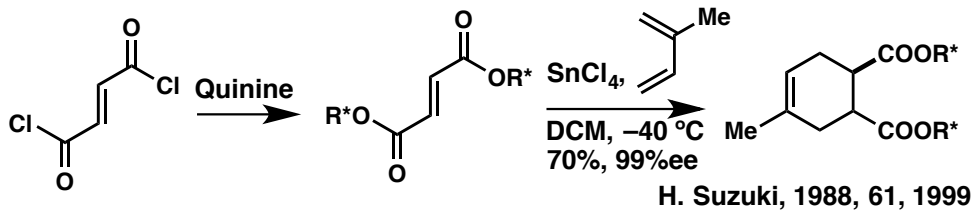
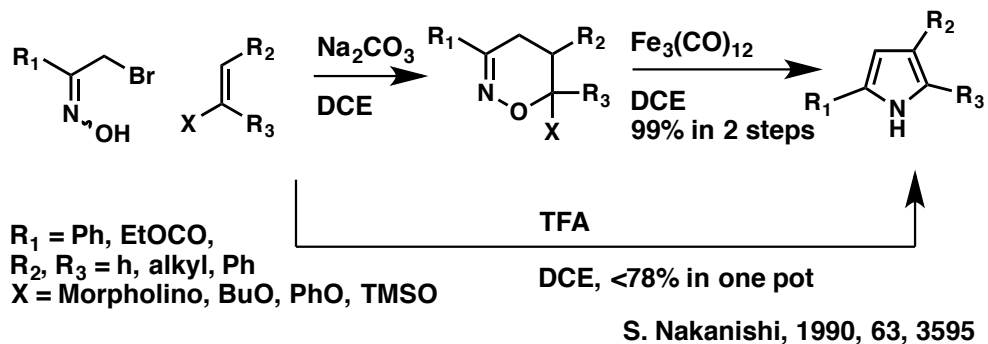
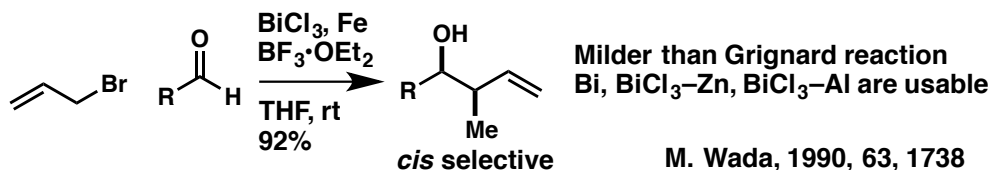
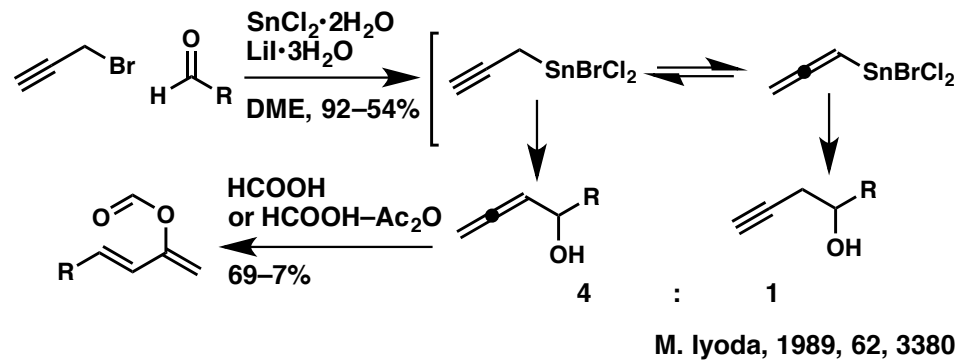
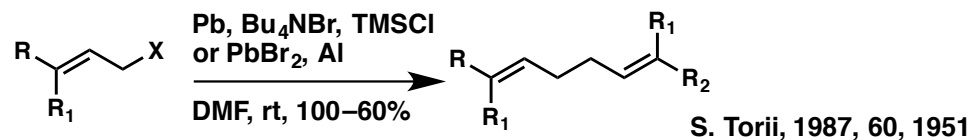
K. Maruoka, 1988, 61, 2241

Other Reactions; Original Reagents

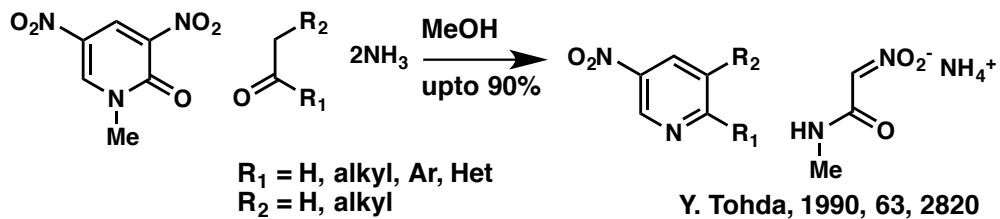
H. Matsuyama, 1989, 62, 3026

Chiral Control

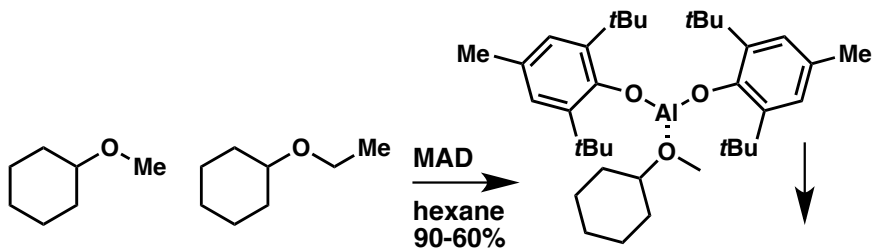
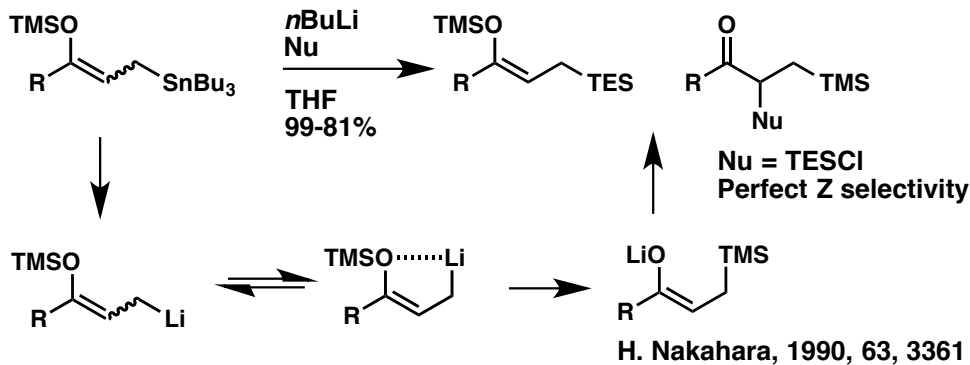
K. Narasaka, 1988, 61, 4379

Other Reactions

R₁ = Ph, EtOCO,
R₂, R₃ = h, alkyl, Ph
X = Morpholino, BuO, PhO, TMSO



Reverse Brook rearrangement



Less hindered, electronically labile ether selectively precipitates

K. Maruoka, 1990, 63, 3354

