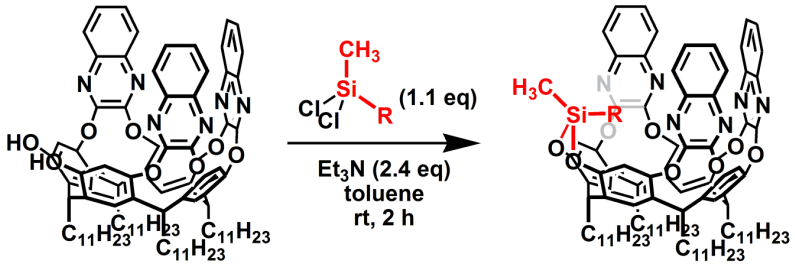
# Reaction of introverted and extroverted allylsilanes with mCPBA

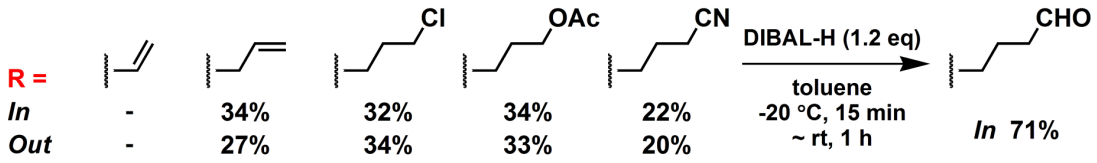
Tetsuo Iwasawa*, Kazuhiro Ohashi, Kouhei Ito

*Department of Materials Chemistry, Ryukoku University, Seta, Otsu, Shiga 520-2194, Japan*
*E-mail: iwasawa@rins.ryukoku.ac.jp, http://www.chem.ryukoku.ac.jp/iwasawa/index.html*

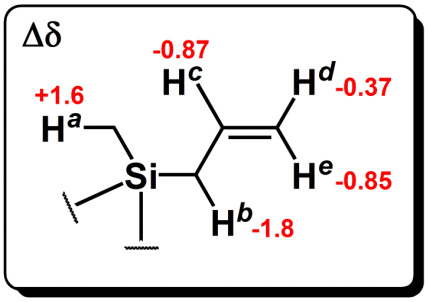
## 1. Summary

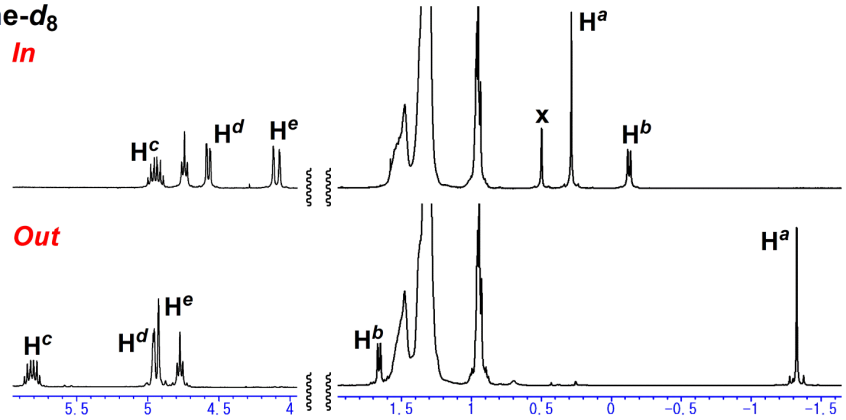
**Ohashi, K.; Ito, K.; Iwasawa, T. *Eur. J. Org. Chem.* 2014, 1597-1601.**



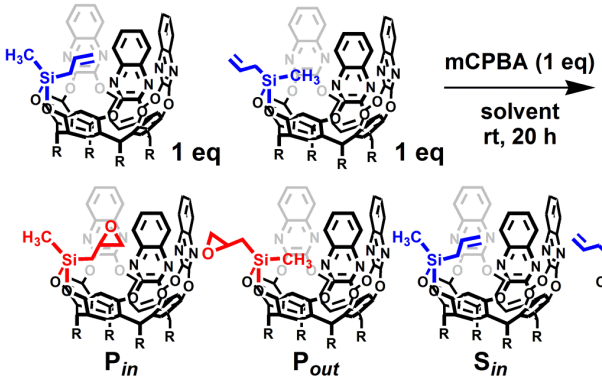




## 2. Mid- and upfield portions in toluene-$d_8$



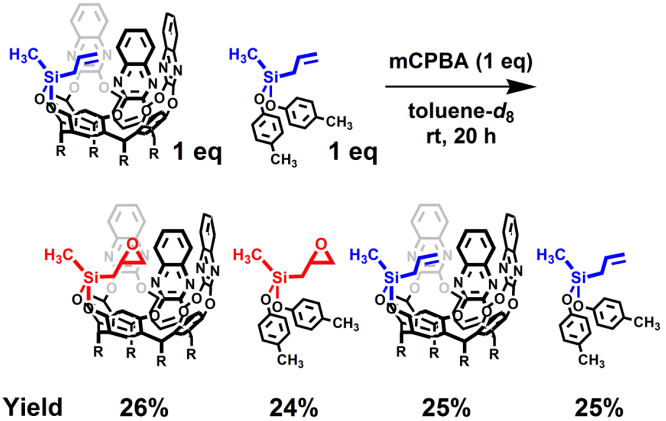




## 3. Competitive epoxidation




| Solvent | Yield (%) | | | |
|---|---|---|---|---|
| | $P_{in}$ | $P_{out}$ | $S_{in}$ | $S_{out}$ |
| benzene-$d_6$ | 27 | 17 | 24 | 32 |
| toluene-$d_8$ | 32 | 23 | 19 | 26 |
| *p*-xylene-$d_{10}$ | 31 | 18 | 19 | 32 |
| mesitylene-$d_{12}$ | ~ 0 | ~ 0 | ~ 50 | ~ 50 |

## 4. Inside-allyl *versus* small-allyl




## 5. Mesitylene is not fit for the cavity.