Organo-silicon compounds

S 0060

43- 190

Cyclopropanation and Carbonyl Olefination Utilizing 2-(Alk-1-yn-1-yl)-2-(trialkylsilyl)-1,3-dithianes via Regioselective Generation of Titanium Alkynylcarbene Complexes. — Silylated alkynyl thioacetals are found to react with terminal olefins and carbonyl compounds in a highly regioselective manner to afford cyclopropanes of type (III) or conjugated enynes such as (VII) and (XI). Subsequent desilylation provides a convenient route to functionalized terminal alkynes which are useful synthons. — (TAKEDA\*, T.; OZAKI, M.; KUROI, S.; TSUBOUCHI, A.; J. Org. Chem. 70 (2005) 11, 4233-4239; Dep. Appl. Chem., Fac. Technol., Tokyo Univ. Agric. Technol., Koganei, Tokyo 184, Japan; Eng.) — Jannicke

Prp: -(CH<sub>2</sub>)<sub>3</sub>-Ph A): excess Ti(Cp)<sub>2</sub>(P(O-Et)<sub>3</sub>)<sub>2</sub>, THF, 25°C B): Bu<sub>4</sub>NF, THF, 0°C

VIIe 
$$\xrightarrow{B}$$
  $\xrightarrow{CH}$   $\xrightarrow{CH}$   $\xrightarrow{Me}$   $\xrightarrow{IC,e}$   $\xrightarrow{O}$   $\xrightarrow{R^7}$   $\xrightarrow{K}$   $\xrightarrow{C}$   $\xrightarrow{R^7}$   $\xrightarrow{CH}$   $\xrightarrow{C}$   $\xrightarrow{R^7}$   $\xrightarrow{C}$   $\xrightarrow{C}$   $\xrightarrow{R^7}$   $\xrightarrow{C}$   $\xrightarrow{R^7}$   $\xrightarrow{C}$   $\xrightarrow{C}$   $\xrightarrow{R^7}$   $\xrightarrow{C}$   $\xrightarrow$