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Tetrahedron

Tetrahedron Vol. 62, No. 30, 2006

Tetrahedron Symposium-in-Print Number 123

Stereoselective and catalyzed halogenation reactions

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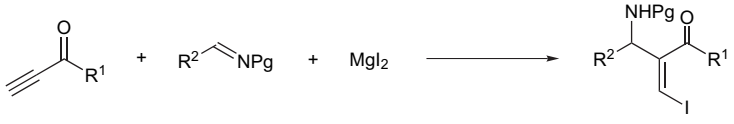
Contents

Announcement: Tetrahedron Symposia-in-Print **pp 7145–7147**
Preface **p 7149**

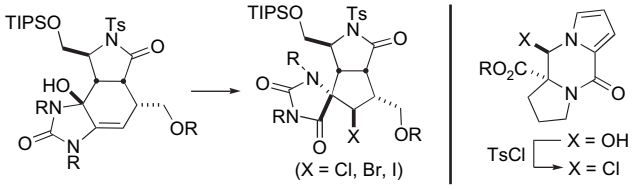
ARTICLES

Highly *Z*/*E* stereoselective approach to β-iodo aza Morita–Baylis–Hillman adducts **pp 7151–7154**
Cody Timmons, Adiseshu Kattuboina, Soham Banerjee and Guigen Li*

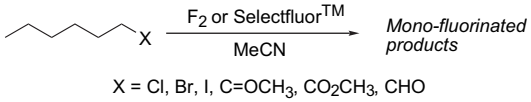


A multicomponent reaction between sulfonyl-protected imines, magnesium iodide, and acetylenic esters or ketones is described. The resulting β-iodo aza Morita–Baylis–Hillman adducts were obtained in good yields (68–84%) and excellent *Z*/*E* stereoselectivities (17:1–20:1) for 11 examples.

Planned and unplanned halogenations in route to selected oroidin alkaloids **pp 7155–7161**
Shaohui Wang, Anja S. Dilley, Karine G. Poullennec and Daniel Romo*

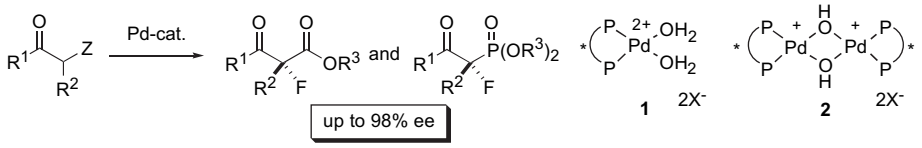


Elemental fluorine. Part 19: Electrophilic fluorination of hexyl derivatives bearing electron withdrawing groups **pp 7162–7167**
Richard D. Chambers,* Mandy Parsons, Graham Sandford,* Emmanuelle Thomas, Jelena Trmcic and John S. Moilliet

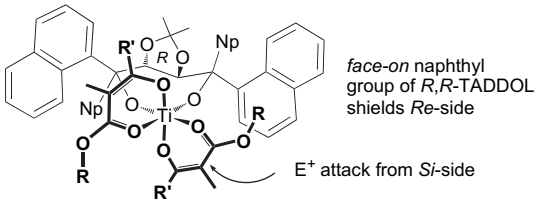


The effect of each functionality upon the conversion of unactivated carbon–hydrogen bonds to carbon–flourine bonds at sites within an alkyl chain is established.

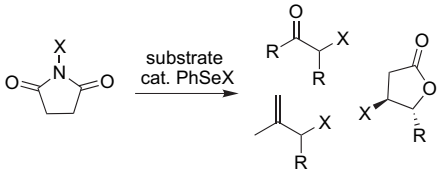
Highly enantioselective fluorination reactions of β-ketoesters and β-ketophosphonates catalyzed by chiral palladium complexes **pp 7168–7179**
Yoshitaka Hamashima, Toshiaki Suzuki, Hisashi Takano, Yuta Shimura, Yasunori Tsuchiya, Ken-ichi Moriya, Tomomi Goto and Mikiko Sodeoka*



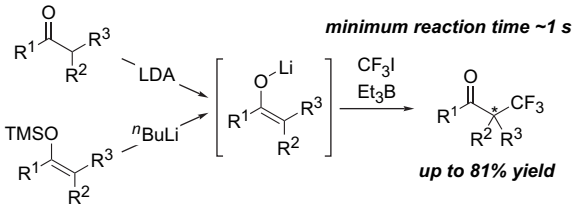
Structural and stereochemical aspects of the enantioselective halogenation of 1,3-dicarbonyl compounds catalyzed by Ti(TADDOLato) complexes **pp 7180–7190**
Mauro Perseghini, Massimo Massaccesi, Yanyun Liu and Antonio Togni*



Selenium-catalyzed oxidative halogenation **pp 7191–7198**
Shelli R. Mellegaard-Waetzig, Chao Wang and Jon A. Tunge*



Radical trifluoromethylation of ketone Li enolates **pp 7199–7203**
Yoshimitsu Itoh and Koichi Mikami*



Highly basic Li enolates are shown to be applicable to radical trifluoromethylation. The reaction is extremely fast and the minimum reaction time is ~1 s.

*Corresponding author

COVER

The cover graphic depicts examples of selenium-promoted halogenations.

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ISSN 0040-4020