

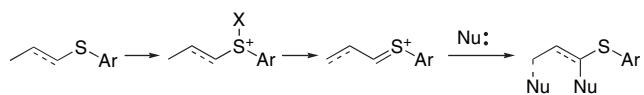
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REPORT

Modern Pummerer-type reactions

Ken S. Feldman

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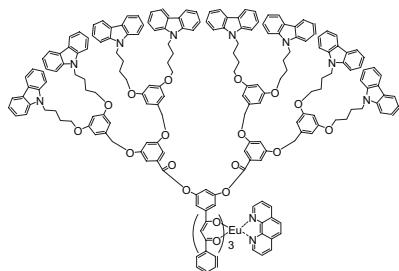


ARTICLES

Antenna-functionalized dendritic β -diketonates and europium complexes: synthetic approaches to generation growth

Shangfeng Li, Weihong Zhu,* Zhongyu Xu, Jianfeng Pan and He Tian*

pp 5035–5048

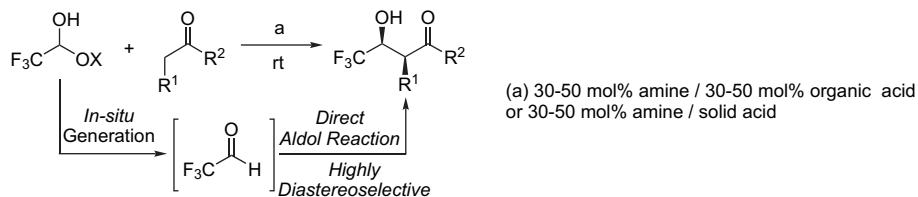


Antenna-functionalized europium dendrimers

Direct aldol reaction of trifluoroacetaldehyde ethyl hemiacetal with ketones by use of the combination of amines and acids

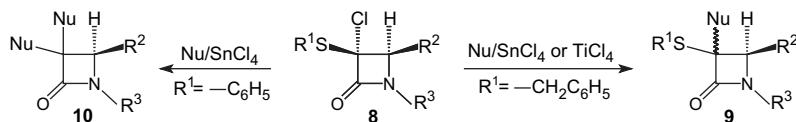
Kazumasa Funabiki,* Hideyuki Nagaya, Mika Ishihara and Masaki Matsui

pp 5049–5053



C-3 β -lactam carbocation equivalents: versatile synthons for C-3 substituted β -lactams
Aman Bhalla, Sachin Madan, Paloth Venugopalan and Shamsher S. Bari*

pp 5054–5063

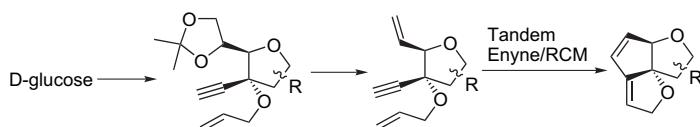


An efficient and operationally simple strategy for the synthesis of differently C-3 monosubstituted (**9**) and disubstituted (**10**) monocyclic β -lactams is described. This involves reaction of β -lactam carbocation equivalents (**8**) with an active aromatic, aliphatic and heterocyclic substrates in the presence of a Lewis acid.

A tandem enyne/ring closing metathesis approach to the synthesis of novel angularly fused dioxa-triquinanes

pp 5064–5073

Krishna P. Kaliappan,* Rahul S. Nandurdikar and Mobin M. Shaikh

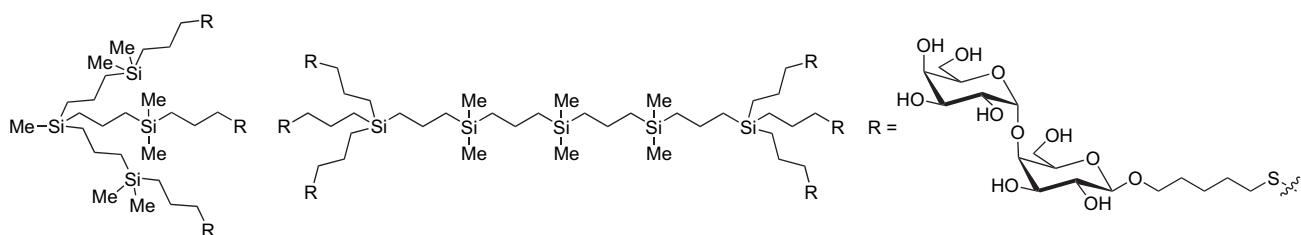


A novel class of angularly fused dioxa-triquinanes is synthesized by a tandem enyne/RKM of a dienye derived from a sugar template. The effect of ethylene atmosphere and different protecting groups on the tandem enyne/RKM reaction is demonstrated here.

Syntheses and Vero toxin-binding activities of carbosilane dendrimers periphery-functionalized with galabiose

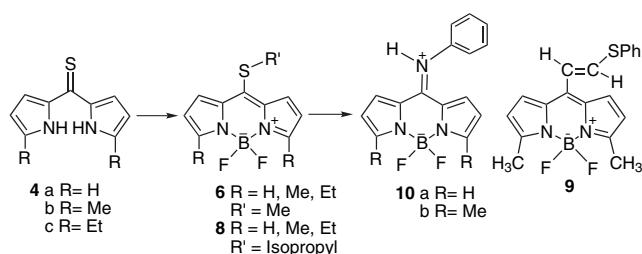
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Akihiro Yamada, Ken Hatano, Koji Matsuoka, Tetsuo Koyama, Yasuaki Esumi, Hiroyuki Koshino, Kumiko Hino, Kiyotaka Nishikawa, Yasuhiro Natori and Daiyo Terunuma*



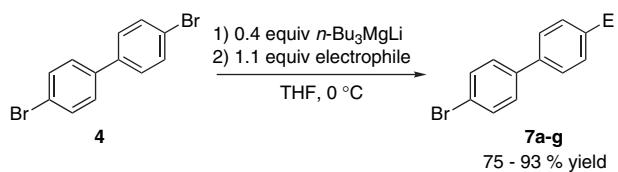
Synthesis of 8-heteroatom-substituted 4,4-difluoro-4-bora-3a,4a-diaza-s-indacene dyes (BODIPY)
Thirumani Venkateshwar Goud, Ahmet Tutar and Jean-François Biellmann*

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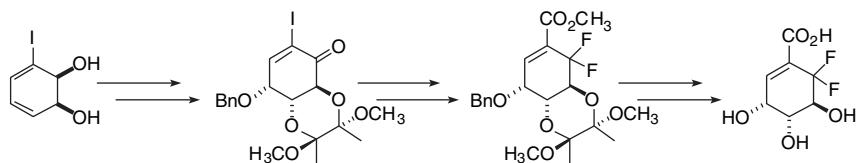


Selective metal-halogen exchange of 4,4'-dibromobiphenyl mediated by lithium tributylmagnesiate
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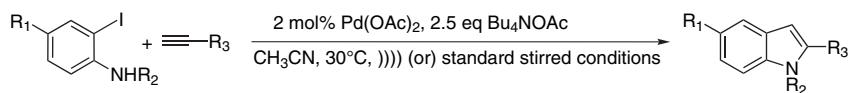
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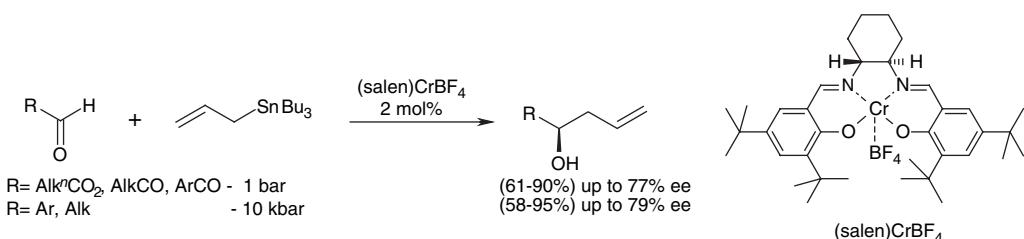
Arene *cis*-dihydrodiols—useful precursors for the preparation of antimetabolites of the shikimic acid pathway: application to the synthesis of 6,6-difluoroshikimic acid and (6*S*)-6-fluoroshikimic acid pp 5099–5108
 Jane L. Humphreys, David J. Lowes, Karen A. Wesson and Roger C. Whitehead*



Ligand-, copper-, and amine-free one-pot synthesis of 2-substituted indoles via Sonogashira coupling 5-*endo*-dig cyclization pp 5109–5115
 Sanjay S. Palimkar, P. Harish Kumar, Rajgopal J. Lahoti and Kumar V. Srinivasan*

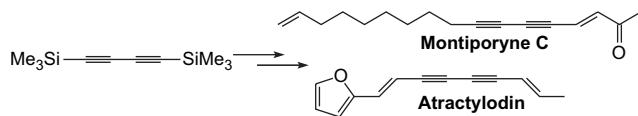


Catalytic asymmetric allylation of aldehydes using the chiral (salen)chromium(III) complexes pp 5116–5125
 Piotr Kwiatkowski, Wojciech Chaładaj and Janusz Jurczak*



Synthesis of naturally occurring polyacetylenes via a bis-silylated diyne
Vito Fiandanese,* Daniela Bottalico, Giuseppe Marchese and Angela Punzi

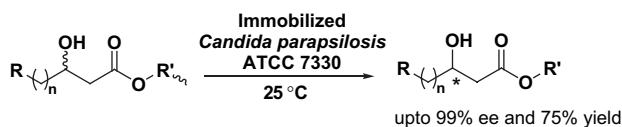
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A series of naturally occurring acetylenes has been synthesized starting from the readily available 1,4-bis(trimethylsilyl)-1,3-butadiyne.

Deracemisation of β -hydroxy esters using immobilised whole cells of *Candida parapsilosis* ATCC 7330: substrate specificity and mechanistic investigation

Santosh Kumar Padhi, D. Titu, N. Ganesh Pandian and Anju Chadha*

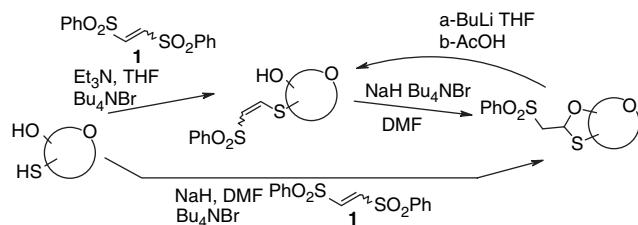


R=C₆H₅, *p*-MeC₆H₄, *o*-MeC₆H₄, *p*-OMeC₆H₄, *o*-OMeC₆H₄, *p*-EtC₆H₄, *p*-ClC₆H₄, *m*-BrC₆H₄, *m*-NO₂C₆H₄, *p*-NO₂C₆H₄, 1-Naphthyl, 9-Anthranyl and Me; n=0, 1 and 2; R'=Me, Et, *n*-Pr, *n*-Bu, -CH₂C₆H₅ and -CH₂CH=CH-C₆H₅.

Vinyl bis-sulfone methodology in thiosugars: selective access to chiral thiovinylic sulfones and PSE oxathianes

pp 5141–5151

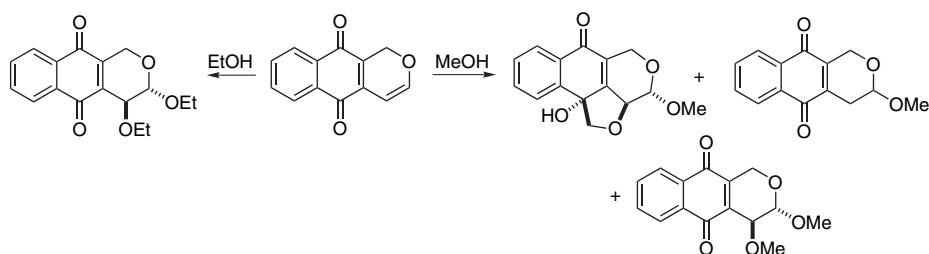
Florence Chéry, Christelle Pillard, Arnaud Tatibouët,* Ottorino De Lucchi and Patrick Rollin*



The behaviour of the natural pyranonaphthoquinone pentalongin in alcoholic solvents

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Sven Claessens, Guido Verniest, Samir El Hady, Tuyen Van Nguyen, Bart Kesteleyn, Luc Van Puyvelde and Norbert De Kimpe*



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