

Tetrahedron Vol. 63, No. 11, 2007

Contents

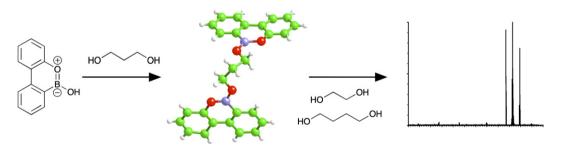
REPORT

Reactivity of ionic liquids Shahana Chowdhury, Ram S. Mohan* and Janet L. Scott*

Ionic liquids are becoming widely used in synthetic organic chemistry and yet relatively little attention has been paid to the intrinsic reactivity of these low temperature molten salts. An increased number of reports allude to the non-innocent nature of many ionic liquids. Knowledge of unexpected catalytic activity of ionic liquids and unforeseen by-product formation are important considerations for synthetic chemists using ionic liquids. In addition, an increasing number of ionic liquids viz. task-specific ionic liquids are being designed to be reactive for carrying out a specific transformation. In this review, we focus on the reactivity *of* ionic liquids, as opposed to reactivity *in* ionic liquids (although discussion of the latter is often included where it aids understanding of the former).

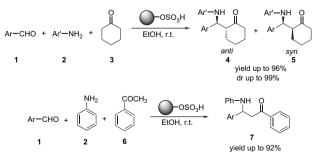
ARTICLES

The dynamic covalent chemistry of mono- and bifunctional boroxoaromatics Lyndsey M. Greig, Alexandra M. Z. Slawin, Melanja H. Smith and Douglas Philp*



$\label{eq:stereoselective synthesis of β-amino ketones via direct Mannich-type reaction catalyzed with silica $pp 2404-2408$ sulfuric acid $pr 2404-2408$ sulfuric $pr 2408$ sulfuric $pr 2408-2408$ sulfuric $pr 2408-2408$ sulfuric $pr 2408-2408$ sulfuric $pr 2408-2408$ sulfuric $pr 2408-2$

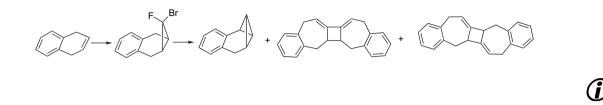
Hui Wu,* Yang Shen, Li-yan Fan, Yu Wan, Pu Zhang, Cai-fa Chen and Wen-xiang Wang



pp 2391-2403

Incorporation of an allene unit into 1,4-dihydronaphthalene: generation of 1,2-benzo-1,4,5-cycloheptatriene and its dimerization

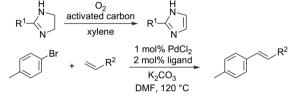
Akin Azizoglu,* Onur Demirkol, Turgut Kilic and Y. Kemal Yildiz*



An efficient synthesis of 2-arylimidazoles by oxidation of 2-arylimidazolines using activated carbon–O₂ system and its application to palladium-catalyzed Mizoroki–Heck reaction Satoshi Haneda, Ayaka Okui, Chigusa Ueba and Masahiko Hayashi^{*}

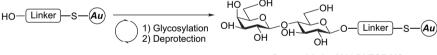
pp 2414-2417

pp 2409–2413



A new glycosylation method. Part 2: Study of carbohydrate elongation onto the gold nanoparticles pp 2418–2425 in a colloidal phase

Hiroki Shimizu,* Masahiro Sakamoto, Noriko Nagahori and Shin-Ichiro Nishimura*



Detectable by MALDI-TOF MS

A facile synthesis of α,α'-bis(substituted-benzylidene)-cycloalkanones and substituted-benzylidenepp 2426–2431heteroaromatics: utility of NaOAc as a catalyst for aldol-type reactionA. F. M. Motiur Rahman, Byeong-Seon Jeong, Dong Hyeon Kim, Jung Ki Park, Eung Seok LeePercent Content of Cont

A. F. M. Motiur Rahman, Byeong-Seon Jeong, Dong Hyeon Kim, Jung Ki
 Park, Eung Seok Lee and Yurngdong Jahng *

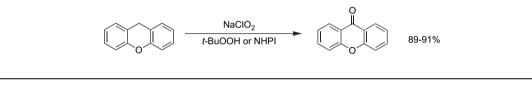
Utility of NaOAc in glacial HOAc as a catalyst for aldol-type condensation reactions was examined. Reactions of cycloalkanones and selected heteroaromatics with various aromatic aldehydes in the presence of NaOAc in acetic acid afforded α, α' -bis(substituted-benzyl-idene)cycloalkanones and substituted-benzylidene heteroaromatics, respectively, in good yields.

Njaoamines A–F, new cytotoxic polycyclic alkaloids from the haplosclerid sponge *Reniera* sp. Fernando Reyes,* Rogelio Fernández, Carlos Urda, Andrés Francesch, Santiago Bueno, Carlos de Eguilior and Carmen Cuevas

NH2 N OH R

Allylic and benzylic oxidation reactions with sodium chlorite

Samuel M. Silvestre and Jorge A. R. Salvador*



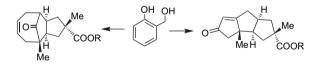
AcC

NaClO₂

t-BuOOH or NHPI

Molecular complexity from aromatics. Cycloaddition of cyclohexa-2,4-dienones, sigmatropic 1,2-acyl pp 2446–2454 shift and ring-closing metathesis: a new, efficient, and stereoselective synthesis of (±)-hirsutic acid C and medium ring carbocycles

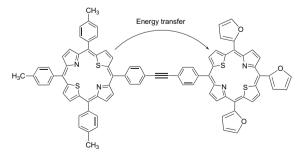
Vishwakarma Singh,* Shantanu Pal, Dilip K. Tosh and Shaikh M. Mobin



Synthesis and fluorescence properties of covalently linked homo- and hetero-porphyrin dyads containing *meso*-tolyl porphyrin and *meso*-furyl porphyrin sub-units Smita Rai and M. Ravikanth*

pp 2455-2465

Porphyrins having three *meso*-furyl groups and one iodophenyl group were synthesized and used for the synthesis of six dyads, which showed efficient energy transfer between the two porphyrin sub-units.



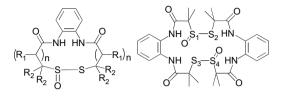
60-89%

pp 2432-2438

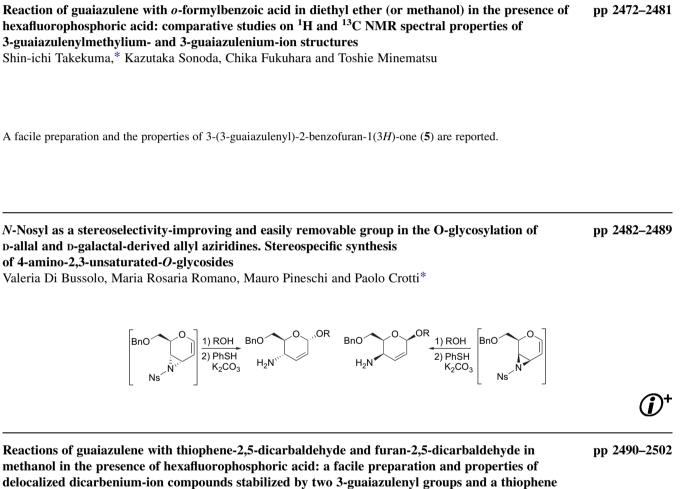
pp 2439–2445

Synthesis of cyclic mono- and bis-disulfides and their selective conversion to monoand bis-thiosulfinates

Emilie Bourlès, Rodolphe Alves de Sousa, Erwan Galardon, Mohamed Selkti, Alain Tomas and Isabelle Artaud*

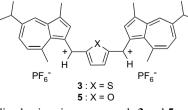


pp 2466-2471



(or furan) ring

Shin-ichi Takekuma,* Kazuhiro Tone, Masato Sasaki, Toshie Minematsu and Hideko Takekuma



A facile preparation and properties of the target dicarbenium-ion compounds 3 and 5 are reported.

New synthesis of N-substituted benz[g]isoquinoline-3,5,10(2H)-triones Jan Jacobs, Sven Claessens, Bart Kesteleyn, Kris Huygen and Norbert De Kimpe*

One-pot synthesis of polysubstituted pyridine derivatives using ketene dithioacetals Masayori Hagimori, Naoko Mizuyama, Yukari Hisadome, Junko Nagaoka, Kazuo Ueda and Yoshinori Tominaga*

MeS



pp 2511-2518

MeŚ Base DMSO R^2 ĊN

Efficient hydroxycarbonylation of aryl iodides using recoverable and reusable carbon aerogels doped pp 2519-2523 with palladium nanoparticles as catalyst

-SMe

Sandro Cacchi,* Cosmin L. Cotet, Giancarlo Fabrizi, Giovanni Forte, Antonella Goggiamani, Laura Martín, Sandra Martínez, Elies Molins, Marcial Moreno-Mañas, Francesco Petrucci, Anna Roig and Adelina Vallribera*

Stereoselective synthesis of 3-alkylidene/alkylazetidin-2-ones from azetidin-2,3-diones Dharmendra Kumar Tiwari, Ashif Y. Shaikh, Laxmikant S. Pavase, Vikas K. Gumaste and Abdul Rakeeb A. S. Deshmukh*

pp 2524-2534

R³ PMP R^2 PMP `R¹ ó

R1

8

pp 2503-2510

COVER

The cover figure shows an underwater picture of the Tanzanian sponge *Reniera* sp. Six members of a new family of complex polycyclic alkaloids with cytotoxic properties, the njaoamines A–F, have been isolated from extracts of this organism. *Tetrahedron* **2007**, *63*, 2432–2438. © 2007 F. Reyes. Published by Elsevier Ltd.



Full text of this journal is available, on-line from ScienceDirect. Visit www.sciencedirect.com for more information.

Abstracted/indexed in: AGRICOLA, Beilstein, BIOSIS Previews, CAB Abstracts, Chemical Abstracts. Current Contents: Life Sciences, Current Contents: Physical, Chemical and Earth Sciences, Current Contents Search, Derwent Drug File, Ei compendex, EMBASE/Excerpta Medica, Medline, PASCAL, Research Alert, Science Citation Index, SciSearch. Also covered in the abstract and citation database SCOPUS[®]. Full text available on ScienceDirect[®]



ISSN 0040-4020