



## Tetrahedron Vol. 67, Issue 50, 2011

## Contents

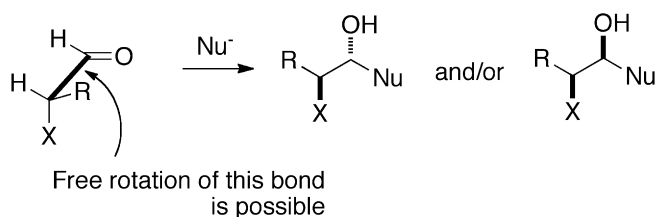
## REPORT

## Recent advances in acyclic stereocontrol

Alexander G. O'Brien

pp 9639–9667

## Acyclic Stereocontrol

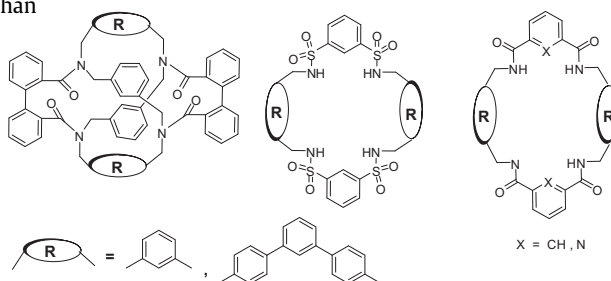


## ARTICLES

## Synthesis, complexation studies and biological activity of some novel mono and tricyclic cyclophane amides and cyclophane sulfonamides

Perumal Rajakumar\*, Ramar Padmanabhan

pp 9669–9679



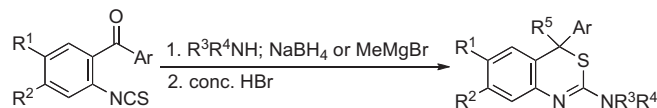
A series of mono, tricyclic cyclophane tetraamides and cyclophane sulfonamides have been synthesized and characterized from spectral and XRD studies. All the cyclophane amides form charge transfer (CT) complex with TCNQ. Cyclophane amides show moderate to good anti-inflammatory activity. Some of them were active against Gram positive (*Klebsiella pneumonia*) and Gram negative (*Escherichia coli* and *Staphylococcus aureus*) human pathogens.



## Two-pot synthesis of *N,N*-disubstituted 4*H*-3,1-benzothiazin-2-amines from aryl(2-isothiocyanatophenyl)methanones and secondary amines

pp 9680–9684

Kazuhiro Kobayashi\*, Yuuki Kanbe



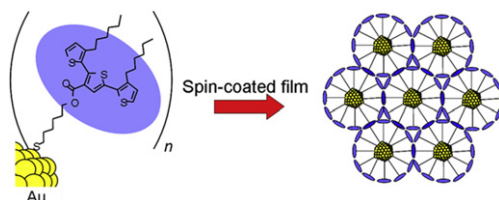
$R^1 = \text{H, Cl, OMe}; R^2 = \text{H, OMe};$

$R^3R^4\text{NH} = \text{Et}_2\text{NH, pyrrolidine, piperidine, morpholine, PhNHMe}; R^5 = \text{H, Me}$

## Gold nanoparticle-templated assembly of oligothiophenes: preparation and film properties

pp 9685–9689

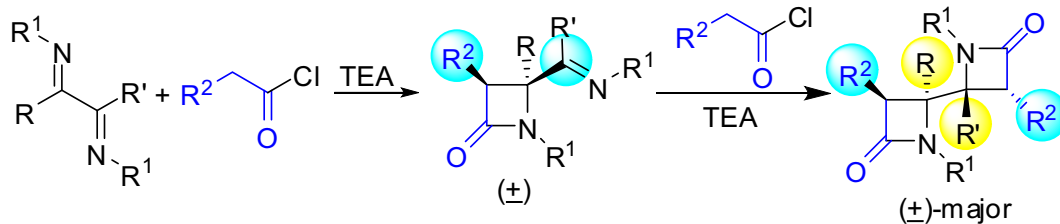
Ken-ichi Saitou, Ryuhei Nishiyabu, Masahiko Iyoda, Yuji Kubo\*



## Selectivities in the reaction of vicinal diimines and acyl chlorides

pp 9690–9699

Zhixin Wang, Ning Chen, Jiayi Xu\*

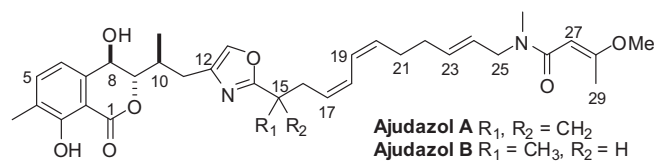


Diastereoselectivity, regioselectivity, and formation selectivity of mono- and bis- $\beta$ -lactam.

## Synthesis of the C1–C16 fragment of the ajudazols

pp 9700–9707

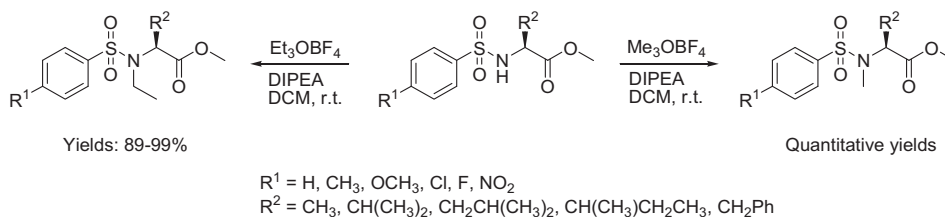
Ben A. Egan, Michael Paradowski, Lynne H. Thomas, Rodolfo Marquez\*



**N-Alkylation of *N*-arylsulfonyl- $\alpha$ -amino acid methyl esters by trialkyloxonium tetrafluoroborates**

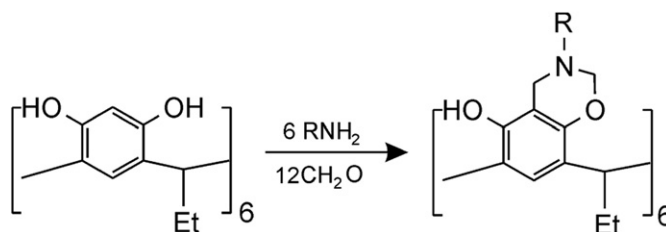
pp 9708–9714

Rosaria De Marco, Maria Luisa Di Gioia, Angelo Liguori\*, Francesca Perri, Carlo Siciliano\*, Mariagiiovanna Spinella

**Selective functionalization of a resorcin[6]arene**

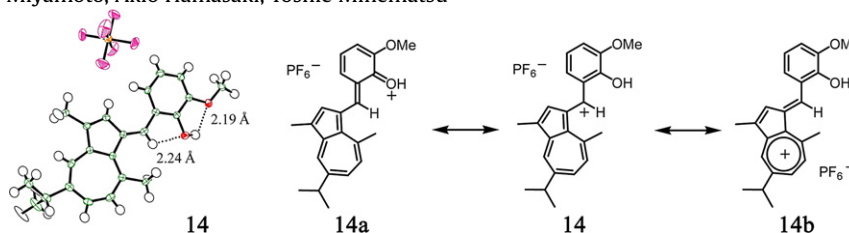
pp 9715–9718

Andriy Tarnovskiy, Alexander Shivanyuk\*, Vladimir V. Rozhkov

**A facile preparation, spectroscopic and chemical properties, crystal structures, and electrochemical behavior of monocarbenium ion compounds stabilized by 3-guaiazulenyl and dihydroxyphenyl (or hydroxymethoxyphenyl) groups**

pp 9719–9728

Shin-ichi Takekuma\*, Ipppei Miyamoto, Akio Hamasaki, Toshie Minematsu

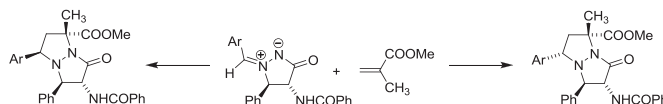


The title basic studies, e.g., a facile preparation and crystal structure as well as spectroscopic, chemical, and electrochemical properties of **14**, having a unique C–H···O–H···O–CH<sub>3</sub> intramolecular hydrogen bond as shown in the above ORTEP drawing, are reported. Interestingly, the target monocarbenium ion compound **14** possesses two representative resonance structures, i.e., the protonated *o*-benzoquinonemethide form **14a** and the 3-guaiazulenyl cation form **14b**, in a solution of acetonitrile and further, in a single crystal.

**Regio- and stereoselective cycloadditions of (1*Z*,4*R*\*,5*R*\*)-1-arylmethylidene-4-benzoylamino-3-oxo-5-phenylpyrazolidin-1-ium-2-ides to methyl methacrylate**

pp 9729–9735

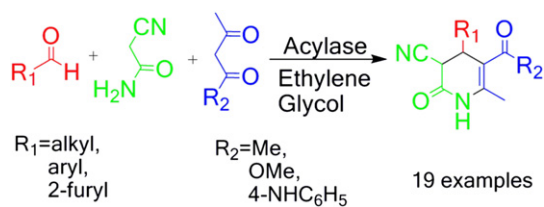
Ana Novak, Jure Bezenšek, Lidija Pezdirc, Uroš Grošelj, Marta Kasunič, Črtomir Podlipnik, Branko Stanovnik, Petr Šimůnek, Jurij Svete\*



**Diastereoselective enzymatic synthesis of highly substituted 3,4-dihydropyridin-2-ones via domino Knoevenagel condensation–Michael addition–intramolecular cyclization**

pp 9736–9740

Zhi-Qiang Liu, Bo-Kai Liu, Qi Wu, Xian-Fu Lin\*



\*Corresponding author

Supplementary data available via ScienceDirect

Available online at [www.sciencedirect.com](http://www.sciencedirect.com)**SciVerse ScienceDirect**Full text of this journal is available, on-line from **SciVerse ScienceDirect**. Visit [www.sciencedirect.com](http://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 SciVerse Scopus®. Full text available on SciVerse ScienceDirect®



ELSEVIER

ISSN 0040-4020