



Tetrahedron Vol. 66, Issue 9, 2010

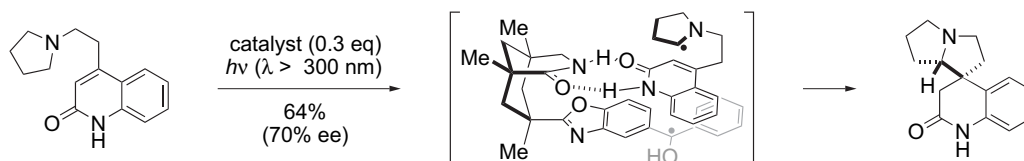
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REPORT

Radicals in organic synthesis: part 2

Gareth J. Rowlands

pp 1593–1636



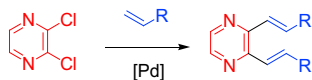
This report is the second part of a two part overview of recent advances in radical reactions in organic synthesis. It covers radical cyclisations as well as radical fragmentations and rearrangements. The report includes just under 300 references.

ARTICLES

Synthesis of 2,3-disubstituted pyrazines and quinoxalines by Heck cross-coupling reactions of 2,3-dichloropyrazine and 2,3-dichloroquinoxaline. Influence of the temperature on the product distribution

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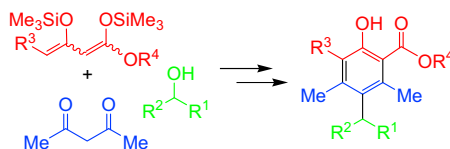
Imran Malik, Munawar Hussain, Asad Ali, Serge-Mithérand Tengho Toguem, Fatima Z. Basha, Christine Fischer, Peter Langer*



Synthesis of functionalized triarylmethanes by combination of FeCl₃-catalyzed benzylations of acetylacetone with [3 + 3] cyclocondensations

pp 1643–1652

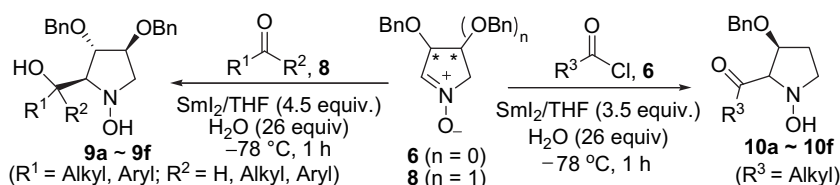
Rasheed Ahmad Khera, Ihsan Ullah, Rasheed Ahmad, Abdolmajid Riahi, Nguyen Thai Hung, Muhammad Sher, Alexander Villinger, Christine Fischer, Peter Langer*



Samarium diiodide-mediated reductive couplings of chiral nitrones with aldehydes/ketones and acyl chlorides

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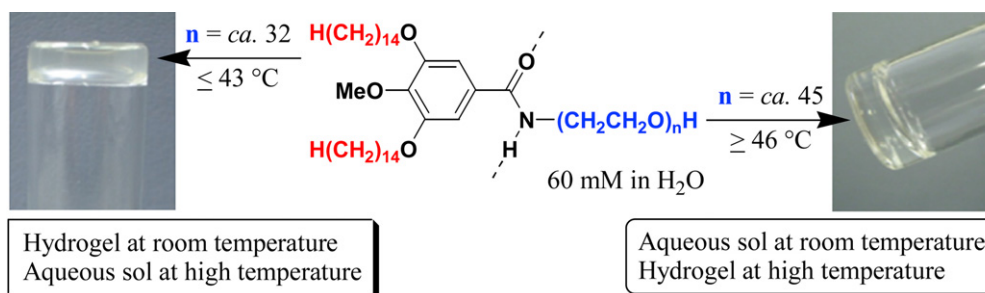
Shao-Feng Wu, Yuan-Ping Ruan, Xiao Zheng, Pei-Qiang Huang*



Supramolecular gelation of alcohol and water by synthetic amphiphilic gallic acid derivatives

pp 1661–1666

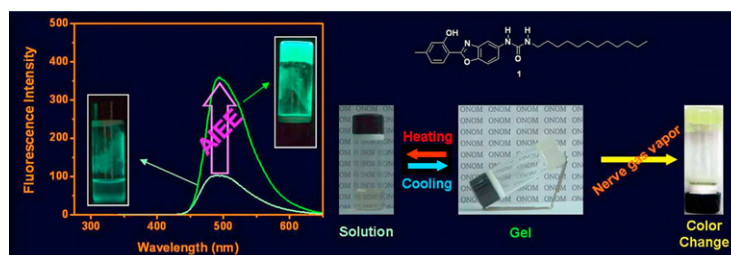
Hitoshi Tamiaki*, Keishiro Ogawa, Keisuke Enomoto, Kazutaka Taki, Atsushi Hotta, Kazunori Toma



Synthesis of reversible fluorescent organogel containing 2-(2'-hydroxyphenyl)benzoxazole: fluorescence enhancement upon gelation and detecting property for nerve gas simulant

pp 1667–1672

Tae Hyeon Kim, Dai Geun Kim, Minjung Lee, Taek Seung Lee*



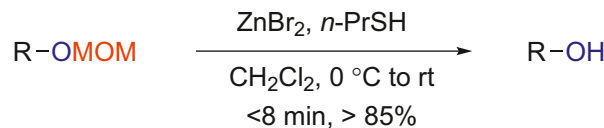
Thermally reversible organogelators containing HPB was synthesized and supramolecular organogel structure with AIEE effect was successfully fabricated using the benzoxazole-based organogelator for potent application in detection of nerve gas simulant.



A facile method for the rapid and selective deprotection of methoxymethyl (MOM) ethers

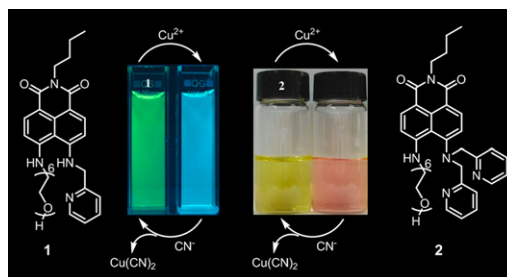
pp 1673–1677

Jae Hyun Han, Young Eun Kwon, Jeong-Hun Sohn*, Do Hyun Ryu*

**Ratiometric fluorescent and colorimetric sensors for Cu²⁺ based on 4,5-disubstituted-1,8-naphthalimide and sensing cyanide via Cu²⁺ displacement approach**

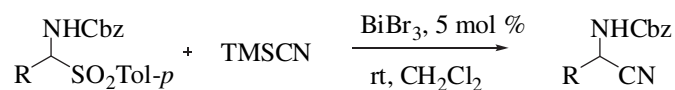
pp 1678–1683

Zhaochao Xu, Jie Pan, David R. Spring, Jingnan Cui*, Juyoung Yoon*

**Synthetic application of in situ generation of *N*-acyliminium ions from α -amido *p*-tolylsulfones for the synthesis of α -amino nitriles**

pp 1684–1688

Santosh T. Kadam, Ponnaboina Thirupathi, Sung Soo Kim*

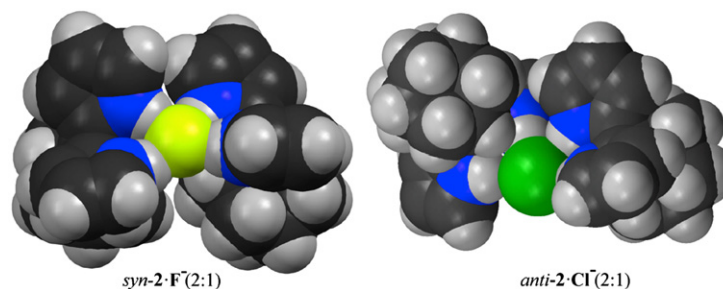


The α -amido *p*-tolylsulfones derived from aromatic and aliphatic aldehydes react with TMSCN in the presence of BiBr₃ (5 mol %) as catalyst to give the *N*-protected α -amino nitriles in very good yield.

Anion recognition through hydrogen bonding by adamantane-dipyrromethane receptors

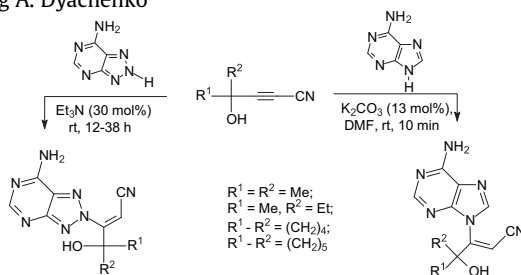
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Marija Alešković, Nikola Basarić, Kata Mlinarić-Majerski*, Krešimir Molčanov, Biserka Kojić-Prodić, Manoj K. Kesharwani, Bishwajit Ganguly*



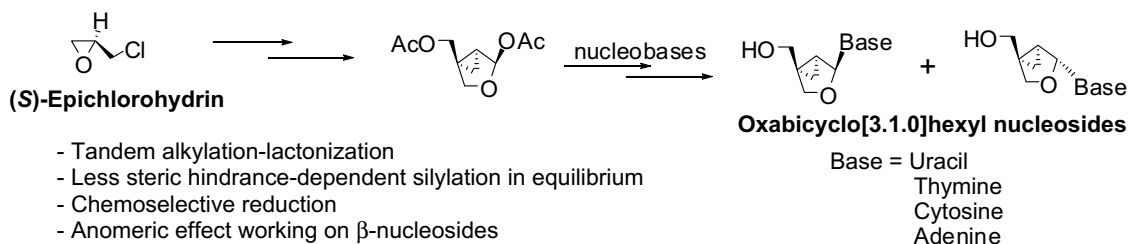
Chemo-, regio- and stereospecific addition of adenine and 8-azaadenine to α,β -acetylenic γ -hydroxy nitriles: a short-cut to novel acyclic adenosine analogues pp 1699–1705

Boris A. Trofimov*, Anastasiya G. Mal'kina, Valentina V. Nosyreva, Olesya A. Shemyakina, Angela P. Borisova, Lyudmila I. Larina, Olga N. Kazheva, Grigorii G. Alexandrov, Oleg A. Dyachenko


First synthesis of 2'-oxabicyclo[3.1.0]hexyl nucleosides with a north conformation

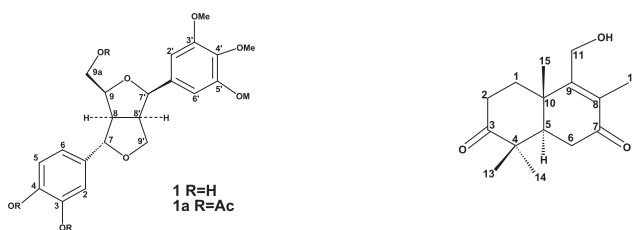
pp 1706–1715

Won Hee Kim, Ah-Young Park, Jin-Ah Kang, Jungsu Kim, Jin-Ah Kim, Hyung-Rock Lee, Pusoon Chun, Jungwon Choi, Chong-Kyo Lee, Lak Shin Jeong, Hyung Ryong Moon*

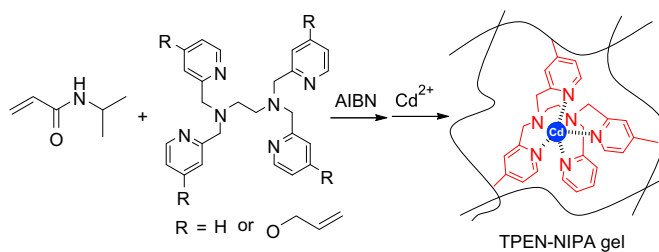

A new lignan and a new sesquiterpene from *Eurotia ceratoides* (L.)

pp 1716–1720

Bina Shaheen Siddiqui*, Kalamkas Zhanarbekovna Butabayeva, Gauhar Shahmanovna Burasheva, Sobiya Perwaiz, Syed Kashif Ali, Huma Aslam Bhatti


Thermo-responsive extraction of cadmium(II) ion with TPEN-NIPA gel. Effect of the number of polymerizable double bond toward gel formation and the extracting behavior pp 1721–1727

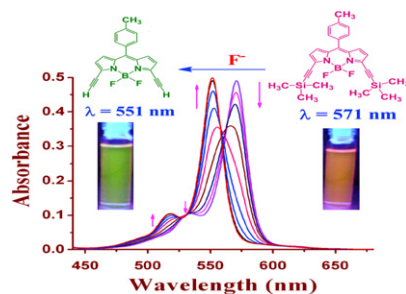
Sachio Fukuoka, Tatsuya Kida, Yasutaka Nakajima, Takayuki Tsumagari, Wataru Watanabe, Yusuke Inaba, Atsunori Mori*, Tatsuro Matsumura, Yoshio Nakano, Kenji Takeshita*



Boron–dipyrromethene based specific chemodosimeter for fluoride ion

pp 1728–1734

M. Rajeswara Rao, Shaikh M. Mobin, M. Ravikanth*

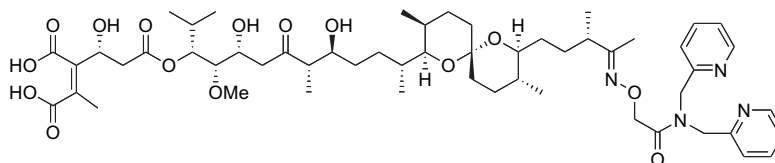


We have developed a novel colourimetric and fluorescent sensor for fluoride ion based on a boron–dipyrromethene dye possessing trimethylsilylacetylenic groups located at 3 and 5 positions.

**Development of a new protein labeling strategy, oxidation labeling. part 1: Preliminary evaluation and synthesis of tautomycin containing a metal coordinating unit**

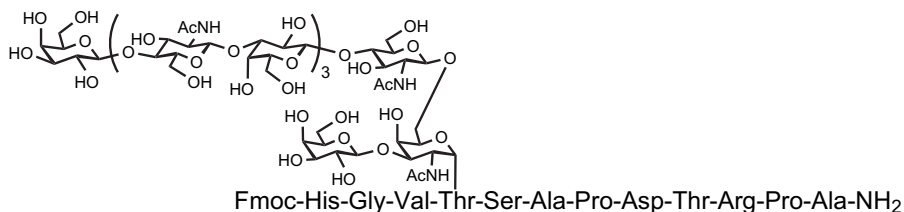
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Magne O. Sydnnes, Atsushi Miyazaki, Minoru Isobe*, Hiroshi Ohinata, Motoi Miyazu, Akira Takai

**Solid-phase synthesis of glycopeptide carrying a tetra-N-acetylactosamine-containing core 2 decasaccharide**


pp 1742–1759

Akiharu Ueki, Yutaka Takano, Akiko Kobayashi, Yuko Nakahara, Hironobu Hojo*, Yoshiaki Nakahara*



A glyco-threonine building block containing (LacNAc)₄ was stereoselectively synthesized, and introduced into a glycopeptide by the Fmoc SPPS.

*Corresponding author

 Supplementary data available via ScienceDirect



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

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