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See Mikael Bols et al., pp. 8993-9004.

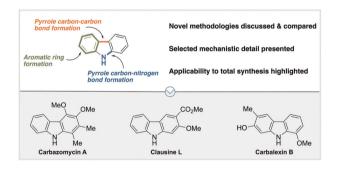
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REVIEW

ROYAL SOCIETY PAPER Pleast Bots of all One-step synthesis of Ling's tetrol at the control of Ling's tetrol of Ling's tet

Trends in carbazole synthesis - an update (2013 - 2023)

Lewis A. T. Allen and Philipp Natho*



COMMUNICATIONS

8975

Direct arene trifluoromethylation enabled by promiscuous activity of fungal laccase

Yi Ling Goh, Shi Yang Preston Long, Mun Fei Eddy Wong, Lee Ling Tan, Elaine Tiong, Fong Tian Wong and Zhennan Liu*

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COMMUNICATIONS

8979

Z-Selective access to α -trifluoromethyl arylenes through Pd-catalysed fluoroarylation of 1,1-difluoroallenes

Lei Chen, Ze-Feng Luo, Peng Ye, Yang-Jie Mao, Zhen-Yuan Xu, Dan-Qian Xu* and Shao-Jie Lou*

Z-selectivity

o broad substrate scope

mild condition

8984

Transition metal-free [3 + 3] annulation of cyclopropanols with β -enamine esters to assemble nicotinate derivatives

Jun-Long Zhan,* Lin Zhu, Jia-Nan Bai, Jian-Bo Liu, Shi-Han Zhang, Yao-Qiang Xie, Bo-Mei Hu, Yang Wang and Wen-Jun Han

- metal-free and additive-free
 atom economy without acidic waste
- simple operation
- recoverable oxidants
- gram-scale synthesis
- broad substrate scope

8989

Ph₃P/ICH₂CH₂I-promoted reductive deoxygenation of alcohols

Wei-Ying Tang, Xing Zheng, Xu Yao, Jin-Hong Lin,* Qu-Tong Zheng* and Ji-Chang Xiao*

$$\begin{array}{ccc}
OH & & & Ph_3P, ICH_2CH_2I \\
\uparrow^{1} \downarrow_{R^2} & + & NaBH_4 & & DMF, rt & R_1
\end{array}$$

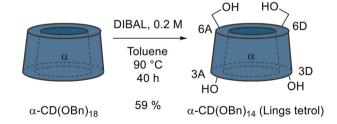
primary and secondary alcohols benzyl, allyl and propargyl alcohols

PAPERS

8993

One-step synthesis of Ling's tetrol and its conversion into A,D-di- $allo-\alpha$ -cyclodextrin derivatives

Waldemar Frederik Zorck, Martin Jæger Pedersen and Mikael Bols*



9005

DMTro base Dmoc pDmoc pDmoc

PEGylated Dmoc phosphoramidites for sensitive oligodeoxynucleotide synthesis

Komal Chillar, Yipeng Yin, Alexander Apostle and Shiyue Fang*

901

Convenient route to Fmoc-homotyrosine *via* metallaphotoredox catalysis and its use in the total synthesis of anabaenopeptin cyclic peptides

Christopher Bérubé, Louis-David Guay, Tommy Fraser, Victor Lapointe, Sébastien Cardinal and Éric Biron*

9021

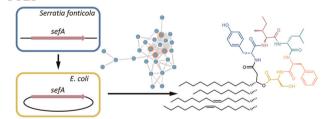
$$R = 4-CF_3C_6H_4$$

- sulfur dioxide insertion strategy
- simple reaction conditions
- oxidant- and metal-free processgood functional group tolerance

A three-component reaction of cyclobutanone oxime esters, sulfur dioxide and *N*-alkyl-*N*-methacryloyl benzamides

Shengqing Ye, Chen Zhuang, Jiajing Lv, Chao Zhang, Qi Chen, Zhiyuan Wu, Jie Wu* and Hongguang Xia*

0020



Genome-driven discovery of new lipopeptides from Serratia

Genome-driven discovery of new serrawettin W2 analogues from *Serratia fonticola* DSM 4576

Haolin Qiu, Yang Xiao, Ling Shen, Tao Han, Qiang He, Aiying Li, Peng Zhang and Xiaofeng Cai*

9037

Direct access to carbamates via acylation of arylamines with dialkyl azodicarboxylates under metal-free conditions

Liangxin Fan,* Mengyang He, Xinyuan Liu, Fangyu He, Lulu Wu, Guoyu Yang, Zhenliang Pan, Lijun Shi, Caixia Wang and Cuilian Xu*

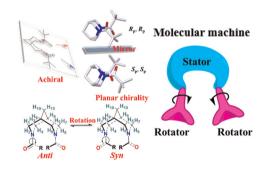
Synthesis of biologically important tetrahydroisoquinoline (THIQ) motifs using quantum dot photocatalyst and evaluation of their anti-bacterial activity

Jiteshkumar P. Deore and Mrinmoy De*

9054

Bispidine as a promising scaffold for designing molecular machines

Hanuman Singh, Akshay Chenna, Upanshu Gangwar, Souvik Dutta, Narayanan D. Kurur, Gaurav Goel and V. Haridas*



Concise access to C2-ethylidene pyrrolo[1,4] benzodiazepine natural products

Zigmārs Leitis, Guna Sakaine, Katrīna Brokāne and Gints Smits*

9065

Synthesis of the indeno[1,2-b]indole core of janthitrem B

Marvin Fresia, Alexandra Dierks, Peter G. Jones and Thomas Lindel*

Modulation of the shuttling rate in degenerate [2]rotaxanes through variations at the macrocycle Non-methylated Macrocycle Methylated Macrocycle

Shuttling rate constant

Modulating the shuttling motion of [2]rotaxanes built of *p*-xylylenediamine units through permethylation at the benzylic positions of the ring

Julio Puigcerver, Mateo Alajarin, Alberto Martinez-Cuezva* and Jose Berna*

9076



Tandem phospha-Michael addition/cyclization/ dehydration of 2-hydroxychalcones with H-phosphine oxides for the synthesis of 4-phosphorylated 4H-chromenes

Zhong Wen, Kai-Cheng Yang, Shi-Lu Zheng, Yu-Shan Zhang, Sheng-Jun Wang, Hai-Liang Ni and Long Chen*

9082

- Simple protocol
- Readily available reagents
- NO catalysts or photosensitisers needed

17 examples 40-82% yields Synthesis of chroman-annulated cyclopropanols *via* photoinduced intramolecular [2 + 1]-cycloaddition of 2-allyloxybenzaldehydes

Elvira R. Zaitseva, Victoria E. Opryshko, Dmitrii S. Ivanov, Andrey A. Mikhaylov, Alexander Yu. Smirnov and Mikhail S. Baranov*

9086

Ball milling synthesis of S-quinolyl xanthates *via* coupling of haloquinolines with potassium O-alkyl xanthates

Sha Peng, Meng-Yang Zhao, Jia-Jun Tang and Long-Yong Xie*

$$X = CI$$
, Br $X + RO$ SK $X = CI$, Br $X + RO$ SK $X = CI$, Br $X = C$

9091

C(21)-Di- and monofluorinated scaffold for the vinol/or vinol-based opioid receptor ligands

Maria V. Zelentsova, Irina V. Sandulenko, Asmik A. Ambartsumyan, Anastasia A. Danshina and Sergey K. Moiseev*