

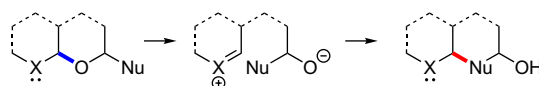
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REPORT

O → C rearrangements: a powerful strategy for the synthesis of functionalised carbocycles

pp 3081–3092

Simon J. Meek and Joseph P. A. Harrity*



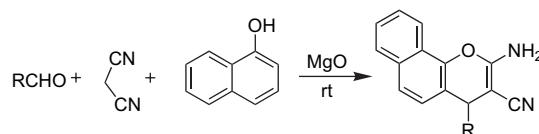
The use of non-concerted oxygen-to-carbon rearrangement strategies for the stereoselective synthesis of functionalised carbocycles is reviewed. The report contains over 60 references.

ARTICLES

Nanosized magnesium oxide as catalyst for the rapid and green synthesis of substituted 2-amino-2-chromenes

pp 3093–3097

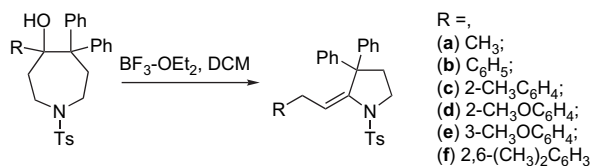
Dalip Kumar,* V. Buchi Reddy, Braj G. Mishra, R. K. Rana, Mallikarjuna N. Nadagouda and Rajender S. Varma*



BF₃-OEt₂-mediated rearrangement of 4-substituted-5,5-diphenylazepan-4-ols

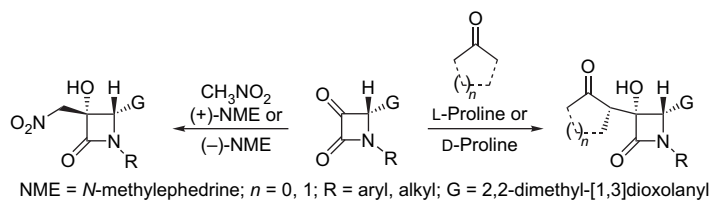
pp 3098–3101

Meng-Yang Chang,* Yung-Hua Kung and Tsun-Cheng Wu



Organocatalytic direct aldol and nitroaldol reactions between azetidine-2,3-diones and ketones or nitromethane pp 3102–3107

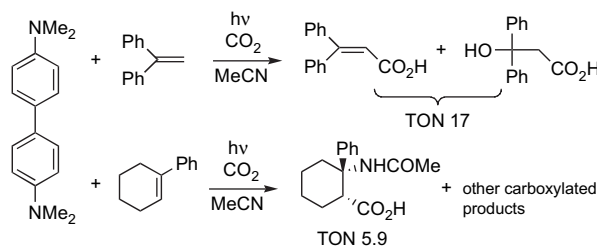
Benito Alcaide,* Pedro Almendros* and Amparo Luna



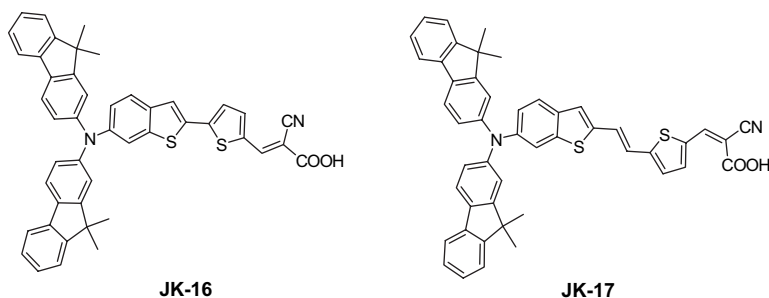
Total asymmetric induction by the substrate, with the chirality of the catalyst having no effect on the overall stereoselectivity.

Catalytic photocarboxylation of 1,1-diphenylethylene with *N,N,N',N'*-tetramethylbenzidine and carbon dioxide pp 3108–3114

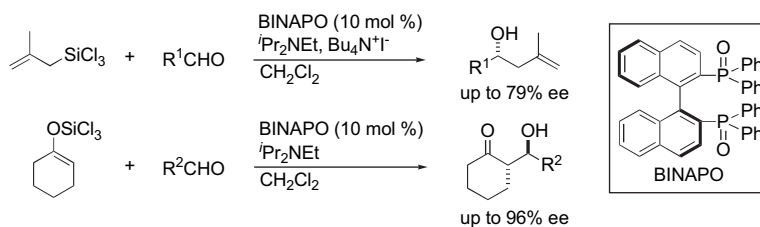
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Novel organic dyes containing bis-dimethylfluorenyl amino benzo[*b*]thiophene for highly efficient dye-sensitized solar cell pp 3115–3121

Hyunbong Choi, Jae Kwan Lee, Kihyung Song, Sang Ook Kang* and Jaejung Ko*

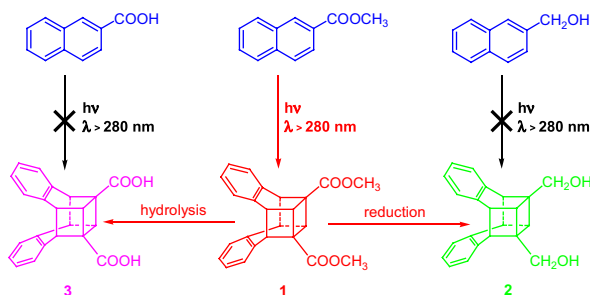

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Shunsuke Kotani, Shunichi Hashimoto and Makoto Nakajima*



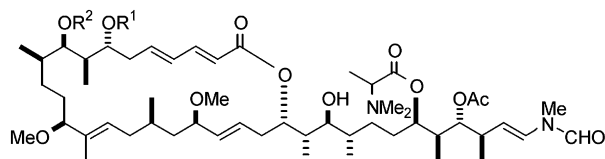
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Aplyronine A, a potent antitumor macrolide of marine origin, and the congeners aplyronines B and C: isolation, structures, and bioactivities pp 3138–3167

Makoto Ojika,* Hideo Kigoshi, Yoshifumi Yoshida, Takeshi Ishigaki, Masanori Nisiwaki, Itaru Tsukada, Masayuki Arakawa, Hisao Ekimoto and Kiyoyuki Yamada*



aplyronine A (2): $R^1 = \text{MeO}-\text{CH}_2-\text{CO}-\text{NMe}_2$, $R^2 = \text{H}$

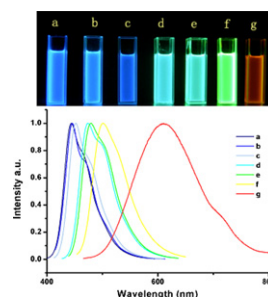
aplyronine B (3): $R^1 = \text{H}$, $R^2 = \text{MeO}-\text{CH}_2-\text{CO}-\text{NMe}_2$

aplyronine C (4): $R^1 = R^2 = \text{H}$

Brightly full-color emissions of oligo(*p*-phenylenevinylene)s: substituent effects on photophysical properties pp 3168–3172

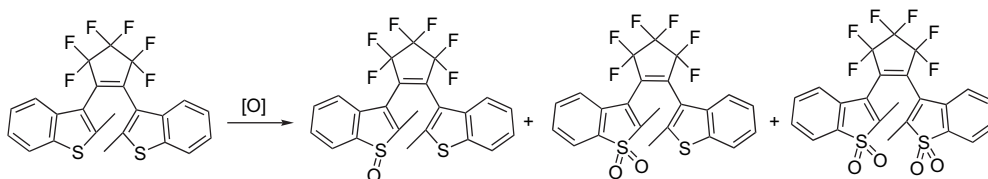
Tonggang Jiu, Yuliang Li,* Huibiao Liu, Jianping Ye, Xiaofeng Liu, Li Jiang, Mingjian Yuan, Junbo Li, Cuihong Li, Shu Wang and Daoben Zhu*

A simple and effective strategy for synthesis of bis-dipolar trimeric OPVs (a–g) with same push–pull electron groups at the two ends is presented. A successful tuning in the emission color was achieved and the LUMO energy level was found to correlate with the Hammett constant of the respective substituents, providing a powerful strategy for prediction of the photoelectrical properties of new chromophores.



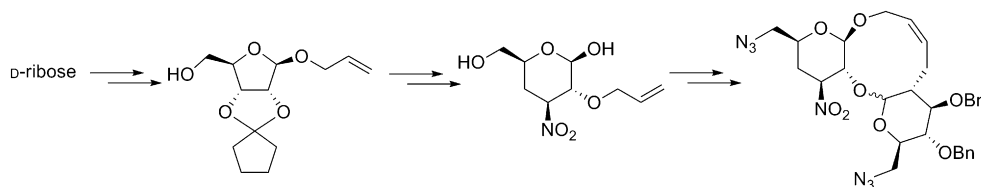
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Yong-Chul Jeong, Jun Pil Han, Yongho Kim, Eunkyong Kim,* Sung Ik Yang* and Kwang-Hyun Ahn*

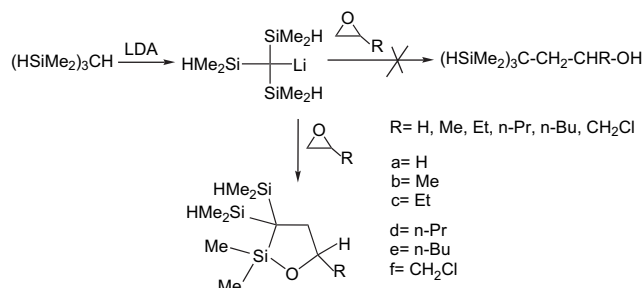


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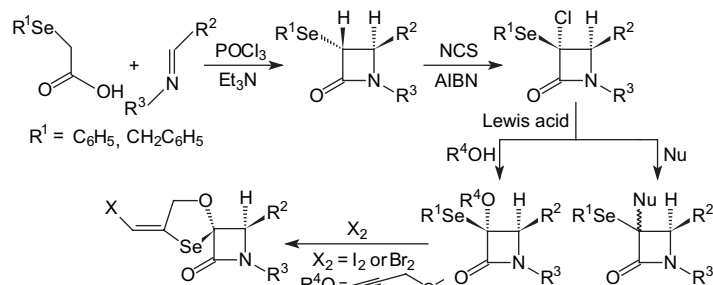
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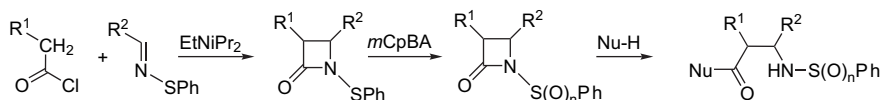
Kazem D. Safa,* Mohammad Shahrivar, Shahin Tofangdarzadeh and Akbar Hassanpour


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Aman Bhalla, Paloth Venugopalan, Kuldip K. Bhasin and Shamsheer S. Bari*


The use of N-sulfonylimines in the β-lactam synthon method: Staudinger reaction, oxidation of the cycloadducts and ring opening of β-lactams pp 3205–3216

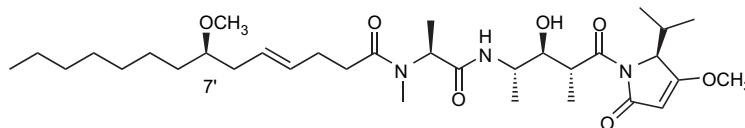
Stéphanie Coantic, Dominique Mouysset, Serge Mignani, Michel Tabart and Lucien Stella*



Total synthesis of malyngamide X and its 7'*S*-epi isomer

Suchada Suntornchashwej, Khanit Suwanborirux and Minoru Isoobe*

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*Corresponding author

Supplementary data available via ScienceDirect

COVER

N-Phenylsulfenylimines are interesting new partners in Staudinger cycloadditions with alkoxyketenes. The electron rich sulfenyl moiety enhances the reactivity of the imine. The reversal of its polarity through oxidation enables subsequent smooth opening of the β -lactam ring by nucleophilic attack. The overall sequence provides a straightforward and efficient route to highly functionalized β -amino acid derivatives. *Tetrahedron* **2007**, *63*, 3205–3216.

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