



Tetrahedron Vol. 69, Issue 13, 2013

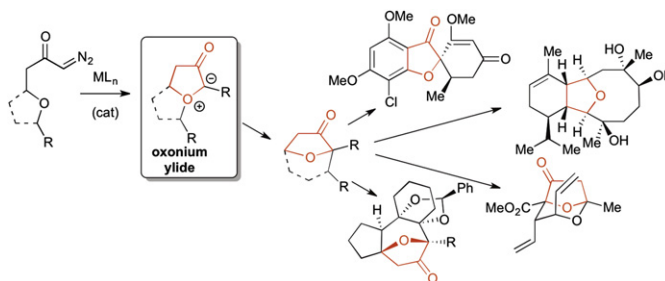
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Intramolecular generation and rearrangement of oxonium ylides: methodology studies and their application

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Graham K. Murphy*, Craig Stewart, F.G. West*

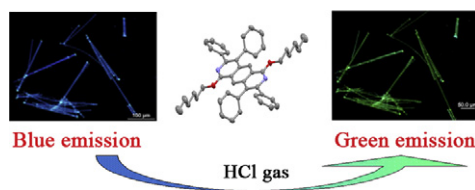


ARTICLES

New emissive organic molecule based on pyrido[3,4-g]isoquinoline framework: synthesis and fluorescence tuning as well as optical waveguide behavior

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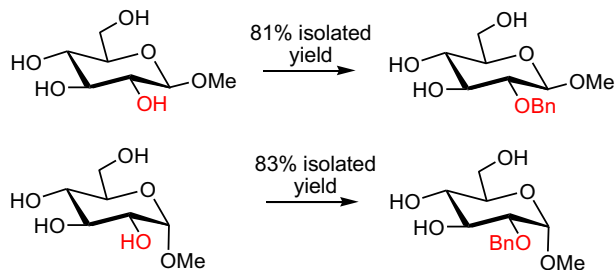
Jianguo Wang, Guanxin Zhang*, Zitong Liu, Xingui Gu, Yongli Yan, Chuang Zhang, Zhenzhen Xu, Yongsheng Zhao, Hongbing Fu, Deqing Zhang*



Halide promoted organotin-mediated carbohydrate benzylation: mechanism and application

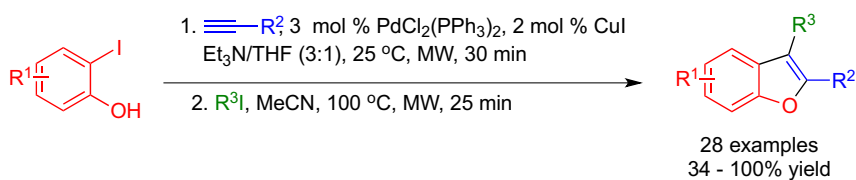
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Yixuan Zhou, Jinyang Li, Yingjie Zhan, Zhichao Pei*, Hai Dong*

**Efficient microwave-assisted one-pot three-component synthesis of 2,3-disubstituted benzofurans under Sonogashira conditions**

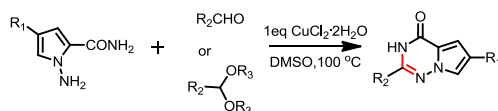
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Nataliya A. Markina, Yu Chen, Richard C. Larock*

**A tandem copper (II)-promoted synthesis of 2-substituted pyrrolo[2,1-f][1,2,4] triazin-4(3H)-ones**

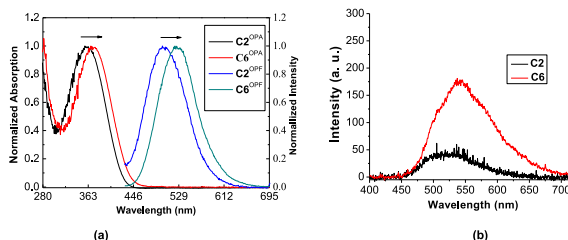
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Yanhong Chen, Haoyue Xiang, Cun Tan, Yuyuan Xie, Chunhao Yang*

**Bromine-substituted *p*-nitrostilbene derivatives: synthesis, crystal structural studies, photoluminescence and the heavy atom effect on the singlet oxygen generation by two-photon absorption**

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Fang Gao*, Xinchao Wang, Suna Wang, Meng Liu, Xiaojiao Liu, Xiaojuan Ye, Hongru Li*



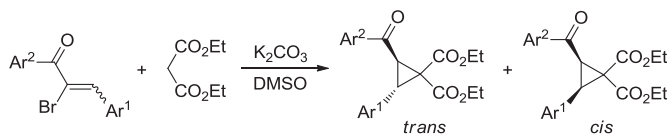
One- and two-photon optical nature of 4-nitro-4'-(4''-bromo-phenyl-methyl-oxy)-diphenylethylene (**C2**) and 4-nitro-3',4'-bis(4''-bromo-phenyl-methyl-oxy)-stilbene (**C6**) exhibits strong dependence on chemical structures. (a) Normalized linear absorption and emission spectra of **C2** and **C6** in THF. (b) TPA emission spectra of **C2** and **C6** in THF.



Stereoselective cyclopropanation of α -bromoalchone with diethyl malonate promoted by K_2CO_3

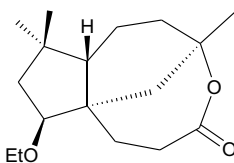
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Yongxian Sun, Gaosheng Yang*, Yue Shen, Zan Hua, Zhuo Chai*

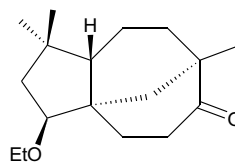
**Rumphellclovanes C–E, new clovane-type sesquiterpenoids from the gorgonian coral *Rumphella antipathies***

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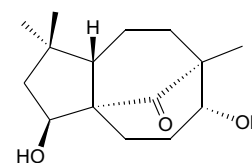
Hsu-Ming Chung, Jui-Hsin Su, Tsong-Long Hwang, Jan-Jung Li, Jih-Jung Chen, Yung-Husan Chen, Yu-Chia Chang, Yin-Di Su, Yu-Hsin Chen, Lee-Shing Fang, Jyh-Horng Sheu, Wei-Hsien Wang*, Ping-Jyun Sung*

*Rumphella antipathies*

rumphellclovane C



rumphellclovane D

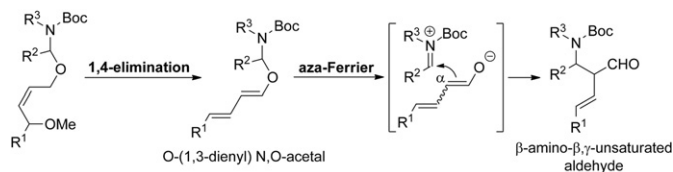


rumphellclovane E

**1,4-Elimination/Brønsted acid catalyzed aza-Ferrier reaction sequence as an entry to β -amino- β,γ -unsaturated aldehydes**

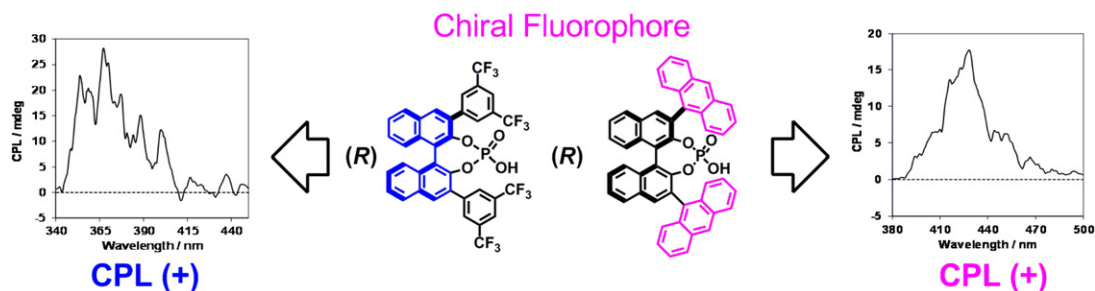
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Eiji Tayama*, Kouki Horikawa, Hajime Iwamoto, Eietsu Hasegawa

**A comparison of circularly polarized luminescence (CPL) and circular dichroism (CD) characteristics of four axially chiral binaphthyl-2,2'-diyl hydrogen phosphate derivatives**

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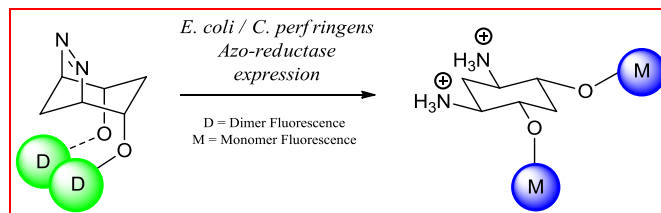
Tomoyuki Amako, Takaya Kimoto, Nobuo Tajima, Michiya Fujiki*, Yoshitane Imai*



Chemical and bacterial reduction of azo-probes: monitoring a conformational change using fluorescence spectroscopy

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Nicholas J.W. Rattray, Waleed A. Zalloum, David Mansell, Joe Latimer, Mohammed Jaffar, Elena V. Bichenkova*, Sally Freeman*

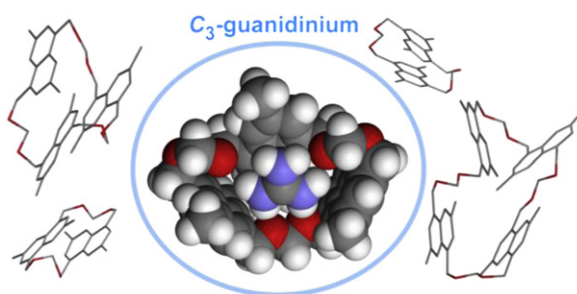


Pathogenic bacterial detection has previously relied upon microscopy techniques that require skilled clinical microbiologists and expensive equipment. Recent advances have seen the use of enzyme specific chromogenic and fluorogenic substrates that, although less expensive, still require comparatively long culture times. With certain bacterial strains known to express azo-reductase enzymes (Azo-1/Azo-2), this work describes the synthesis, characterisation and biological evaluation of two fluorescent probes, 2,4-*O*-bisdansyl-6,7-diazabicyclo[3.2.1]oct-6-ene and 2,4-*O*-bispyrenoyl-6,7-diazabicyclo[3.2.1]oct-6-ene. These probes can potentially be used for the rapid clinical evaluation of low levels of pathogenic strains of bacteria that express Azo-1/Azo-2.

Naphthalenophane formaldehyde acetals as candidate structures for the generation of dynamic libraries via transacetalation processes

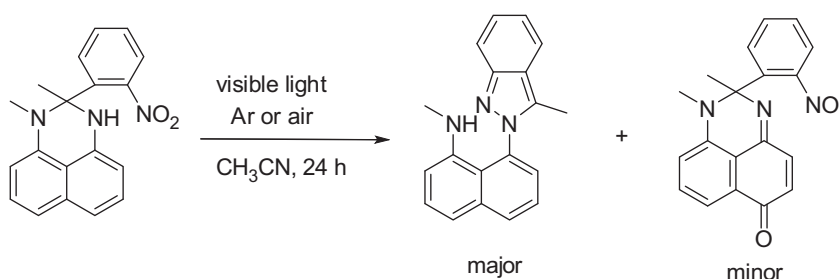
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Albert Ruggi, Roberta Cacciapaglia*, Stefano Di Stefano*, Enrico Bodo, Franco Ugozzoli

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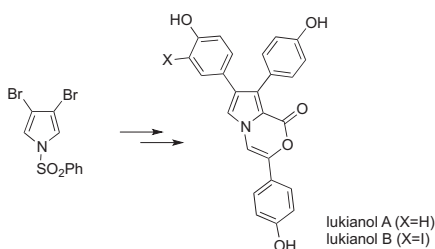
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Wei-Zhe Chen, Hao-Yi Wei, Ding-Yah Yang*

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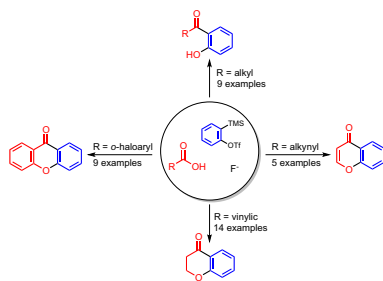
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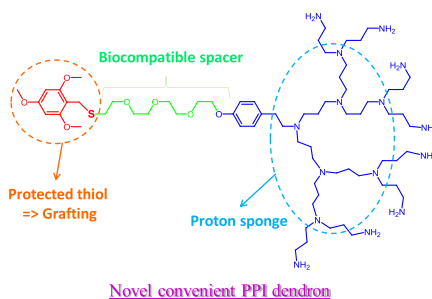
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A new poly(propylene imine) dendron as potential convenient building-block in the construction of multifunctional systems

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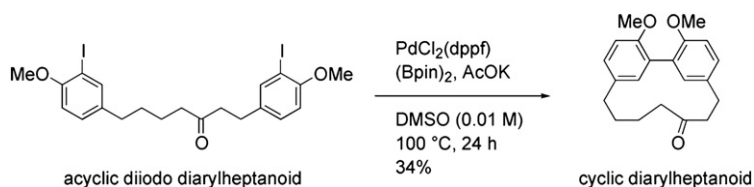
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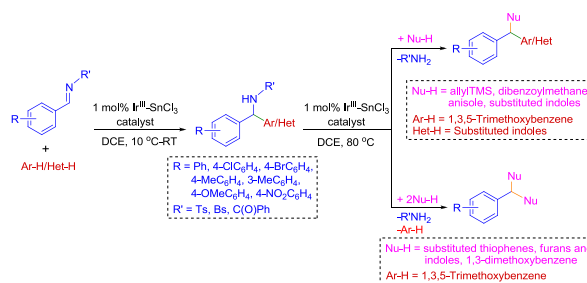
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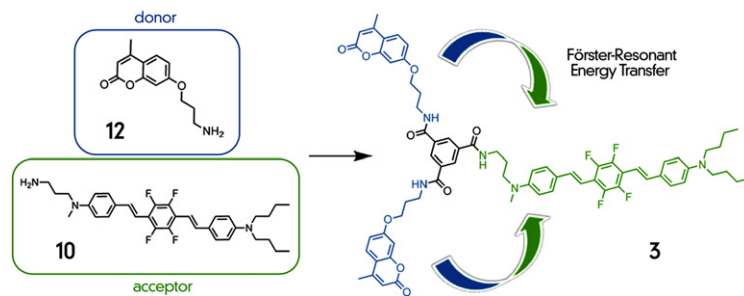
Pareesh Nath Chatterjee, Arnab Kumar Maity, Swapna Sarita Mohapatra, Sujit Roy*



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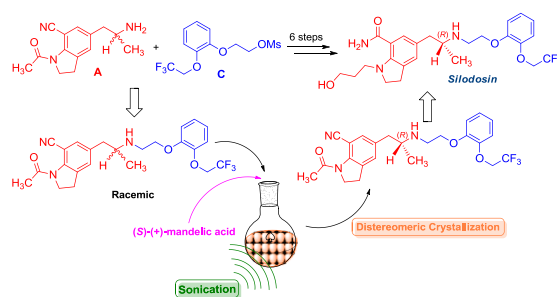
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Marco Cavazzini*, Silvio Quici, Simonetta Orlandi, Cristina Sissa, Francesca Terenzi, Anna Painelli

**Enantioselective synthesis of (–)-(R) Silodosin by ultrasound-assisted diastereomeric crystallization**

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Indrajeet J. Barve, Li-Hsun Chen, Patrick C.P. Wei, Jui-Te Hung, Chung-Ming Sun*



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