

Organic & Biomolecular Chemistry

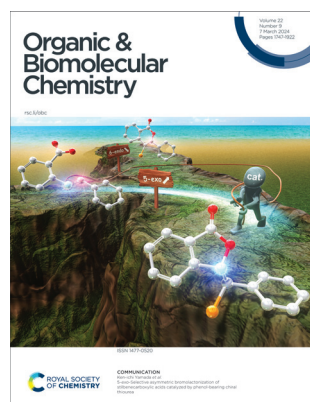
An international journal of synthetic, physical and biomolecular organic chemistry

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IN THIS ISSUE

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Cover

See Ken-ichi Yamada *et al.*, pp. 1765–1769.

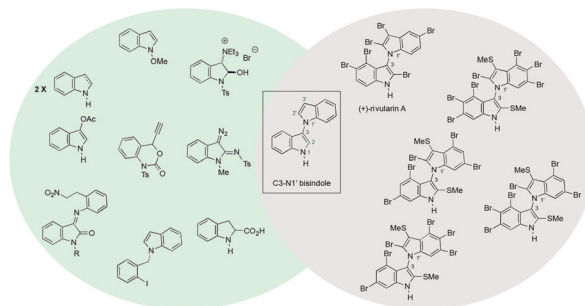
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REVIEW

1756

Synthetic strategies for the construction of C3–N1' bisindoles

Takumi Abe

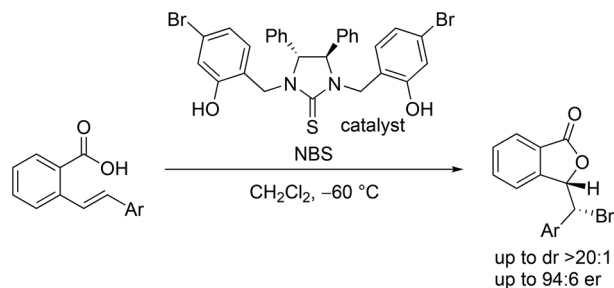


COMMUNICATIONS

1765

5-exo-Selective asymmetric bromolactonization of stilbenecarboxylic acids catalyzed by phenol-bearing chiral thiourea

Masayuki Sugano, Tsubasa Inokuma, Yousuke Yamaoka and Ken-ichi Yamada*



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Fundamental questions
Elemental answers

COMMUNICATIONS

1770

A silver-mediated radical process of β -keto sulfones for the synthesis of 2,3-diacyl furans

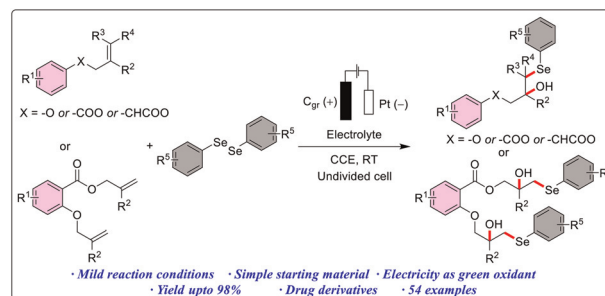
Jian Fan,* Yanhong Zu, Zhimin Zheng, Lulu Song, Yating Wang, Zhou Zhou, Yujun Liu* and Shuwen Xu*



1775

Electrochemical selenofunctionalization of unactivated alkenes: access to β -hydroxy-selenides

Anil Balajirao Dapkekar and Gedu Satyanarayana*



1782

Visible light-promoted difluoromethylthiolation of cycloalkanols by C–C bond cleavage

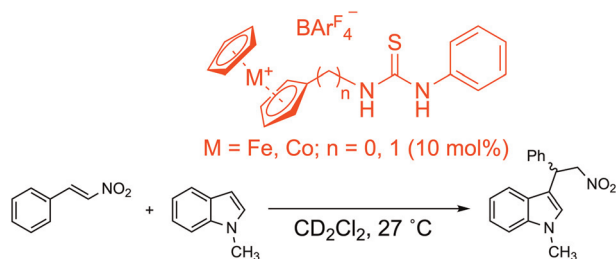
Kehan He,* Yan Mei, Na Jin, Yutao Liu and Fei Pan*



1788

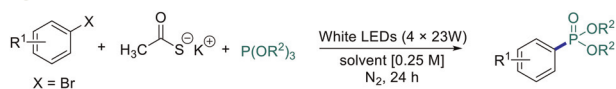
Metallocenium incorporated charge-enhanced thiourea catalysts

Daniel R. Blechschmidt, Cal Mergendahl and Steven R. Kass*



COMMUNICATIONS

1794



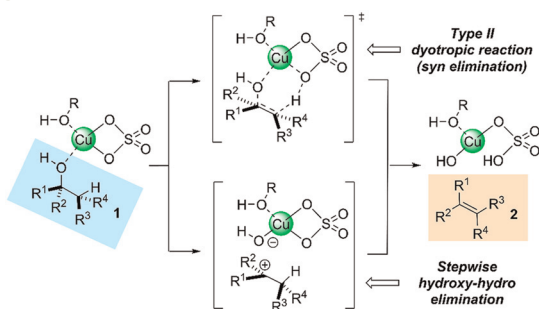
- Metal-free
 - Photocatalyst-free
 - Household white lamp
 - Easily available reactants
 - Room temperature
 - C(sp²)-X bond cleavage
- 46 examples
up to 99% yield

Photocatalyst-free visible-light-promoted C(sp²)-P coupling: efficient synthesis of aryl phosphonates

Shiqi Xiang, Min Li, Zhen Xia, Chen Fang, Wen Yang,*
Wei Deng* and Ze Tan*

PAPERS

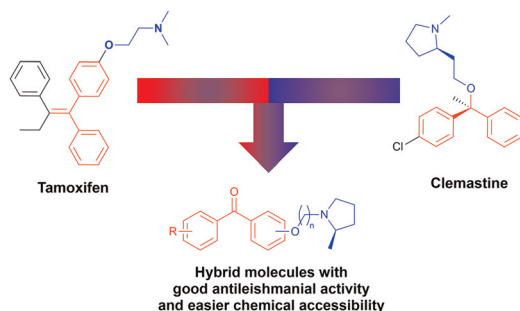
1800



Dehydration of alcohols catalyzed by copper(II) sulfate: type II dyotropic reactions and stepwise mechanisms

Jorge Sánchez-Quesada, Carlos López-Cruz, Abel de Cózar, Ana Arrieta, Iosune Arrastia and Fernando P. Cossío*

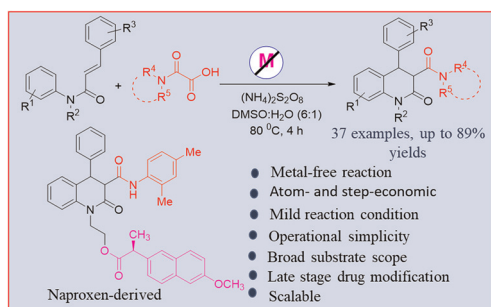
1812



Clemastine/tamoxifen hybrids as easily accessible antileishmanial drug leads

V. S. Agostino, M. L. Buerdsell, S. R. B. Uliana,
P. W. Denny, A. C. Coelho and P. G. Steel*

1821



Metal-free synthesis of carbamoylated dihydroquinolinones via cascade radical annulation of cinnamamides with oxamic acids

Pallav Suman, Kirti Tomar, Chandra Shekhar Nishad and Biplab Banerjee*

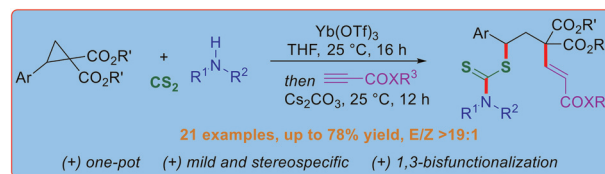


PAPERS

1834

Lewis acid-catalyzed one-pot thioalkenylation of donor–acceptor cyclopropanes using *in situ* generated dithiocarbamates and propiolates

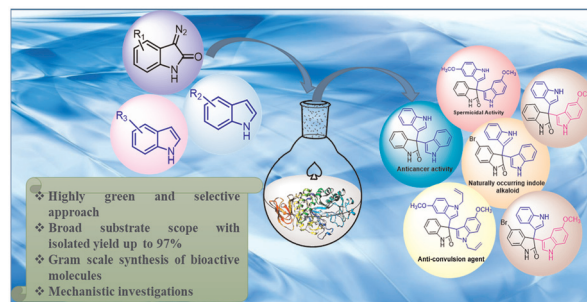
Sanjeevni Harikumar, Labeeb Thazhe Kollorth Kandy, Avishek Guin* and Akkattu T. Biju*



1839

Experimental and computational investigation of the α -amylase catalyzed Friedel–Crafts reaction of isatin to access symmetrical and unsymmetrical 3,3',3''-trisindoles

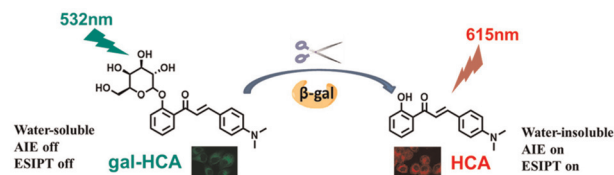
Priya Kamboj, Abinash Mohapatra, Debasish Mandal and Vikas Tyagi*



1850

A chalcone-based ESIPT and AIE fluorophore for β -gal imaging in living cells

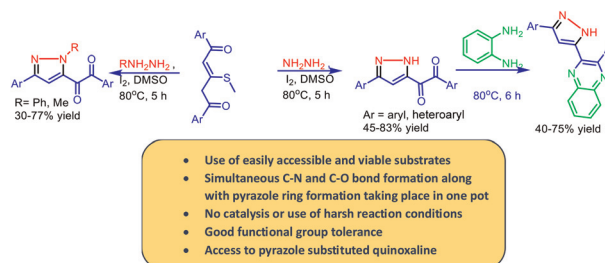
Yiran Hu, Haiyan Luo, Luyao Zhao, Xudong Guo, Shuangqing Wang, Rui Hu* and Guoqiang Yang*



1859

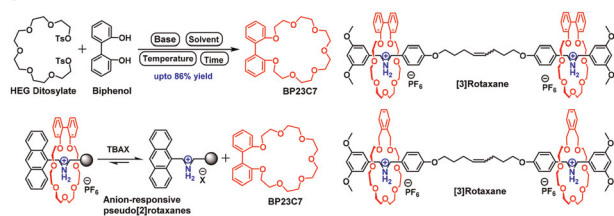
Iodine/DMSO-mediated one-pot access towards 1-aryl-2-(pyrazol-5-yl)ethane-1,2-diones via a domino reaction from functionalized pent-2-ene-1,5-diones

Trisha Ghatak, Chandan Shah, Ismail Althagafi, Nand Gopal Giri, Mahendra Nath and Ramendra Pratap*



PAPERS

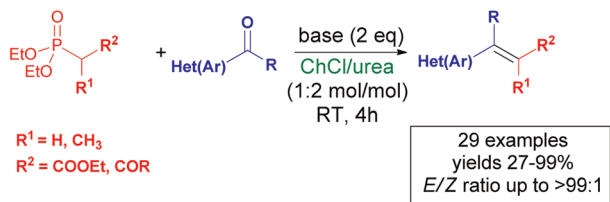
1871



BP23C7: high-yield synthesis and application in constructing [3]rotaxanes and responsive pseudo [2]rotaxanes

Manisha Prakashni and Suvankar Dasgupta*

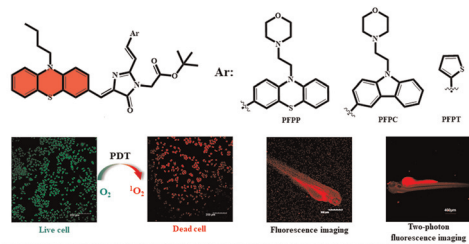
1885



An enhanced stereoselective synthesis of α,β -unsaturated esters through the Horner–Wadsworth–Emmons reaction in deep eutectic solvents

Andrea Nicola Paparella, Margherita Stallone, Mara Pulpito, Filippo Maria Perna,* Vito Capriati* and Paola Vitale*

1892

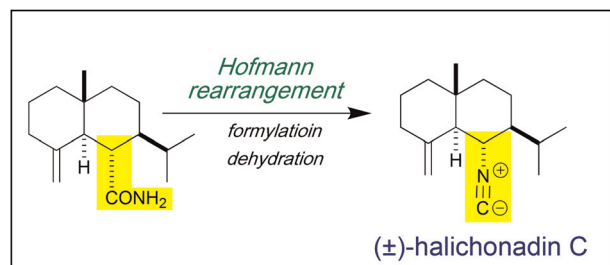


Fluorescent protein chromophores modified with aromatic heterocycles for photodynamic therapy and two-photon fluorescence imaging

Weilong Li, Wan Feng, Badi Liu and Ying Qian*

- Fluorescent protein chromophore with near-infrared emission modified by aromatic heterocycles
- Heavy atom-free, lysosome-targeted photosensitizers based on aromatic heterocyclic modifications
- Stimulated photodynamic therapy in A-549 cells and two-photon fluorescence imaging in zebrafish

1901



First synthesis of (±)-halichonadins A–D

Ryohei Fujita, Kaito Ooka, Hiroaki Wasada, Yoshiyasu Ichikawa* and Seiji Hosokawa*

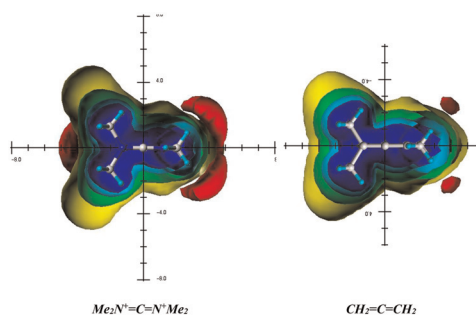


PAPERS

1907

Carbones ($-\text{C}^{2-}-$), carbenes ($-\text{C}:-$) and carbocations ($-\text{C}^{2+}-$) on the magnetic criterion

Erich Kleinpeter* and Andreas Koch



1915

 TiF_4 -catalyzed direct amidation of carboxylic acids and amino acids with aminesAbdulkhaliq A. Alawaed and
P. Veeraraghavan Ramachandran*