

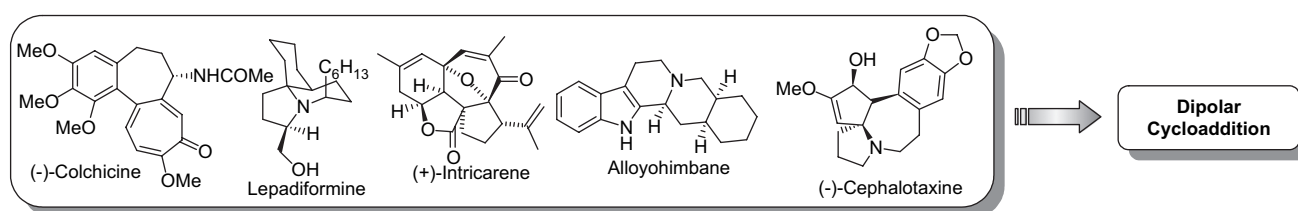
Contents

REPORT

**Intramolecular 1,3-dipolar cycloaddition reactions in targeted syntheses**

Vijay Nair\* and T. D. Suja

pp 12247–12275



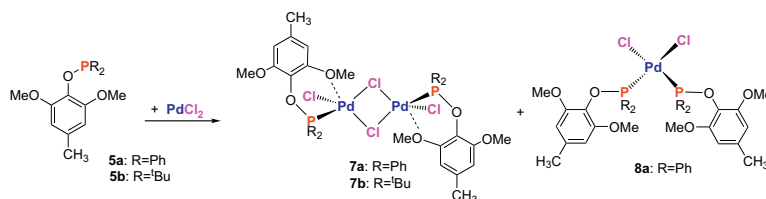
A detailed discussion on the application of [3+2] dipolar cycloaddition reactions in targeted syntheses is presented.

ARTICLES

**Preparation of monodentate phosphinite ligands: their applications in palladium catalyzed Suzuki reactions**

Yan-Huei Cheng, Chia-Ming Weng and Fung-E Hong\*

pp 12277–12285



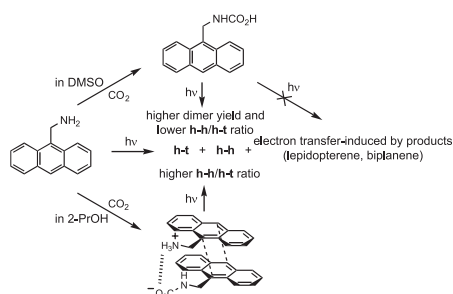
Two phosphinites, **5a** and **5b**, were employed as effective ligands in palladium catalyzed Suzuki–Miyaura cross-coupling reactions. The best results come with the ratio of **5a**/Pd(OAc)<sub>2</sub> equals 2:1. It is 1:1 for **5b**/Pd(OAc)<sub>2</sub>.



**Solvent-dependent effect by carbon dioxide on the photoreactions of (9-anthryl)alkylamines**

Masahiro Horiguchi and Yoshikatsu Ito\*

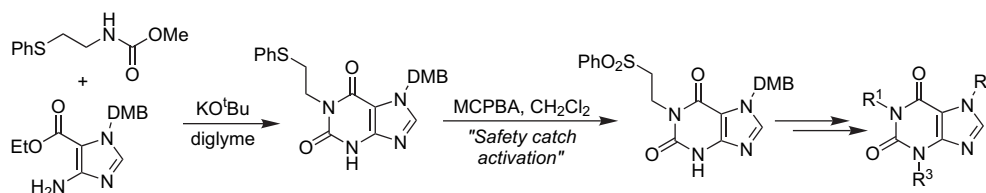
pp 12286–12293



**Efficient synthesis of 1,3,7-substituted xanthenes by a safety-catch protection strategy**

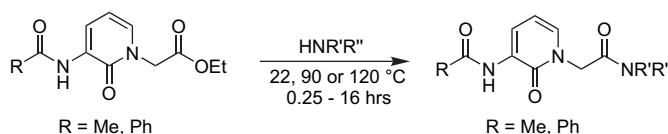
pp 12294–12302

Matthew B. Allwood, Booma Cannan, Daan M. F. van Aalten and Ian M. Eggleston\*

**A facile and efficient method for the synthesis of novel pyridone analogues by aminolysis of an ester under solvent-free conditions**

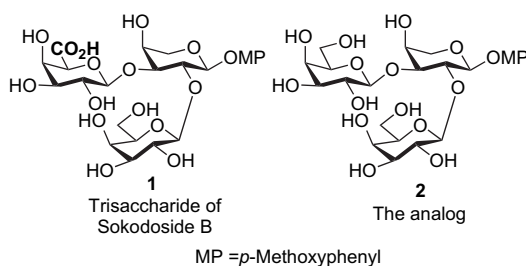
pp 12303–12309

N. David Karis, Wendy A. Loughlin\* and Ian D. Jenkins

**Oligosaccharides through reactivity tuning: convergent synthesis of the trisaccharides of the steroid glycoside Sokodoside B isolated from marine sponge *Erylus placenta***

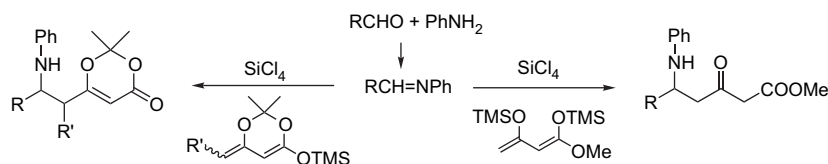
pp 12310–12316

Somnath Dasgupta, Kausikisankar Pramanik and Balaram Mukhopadhyay\*

**A convenient approach to  $\delta$ -amino- $\beta$ -ketoesters by vinylogous Mannich reaction of masked acetoacetates**

pp 12317–12323

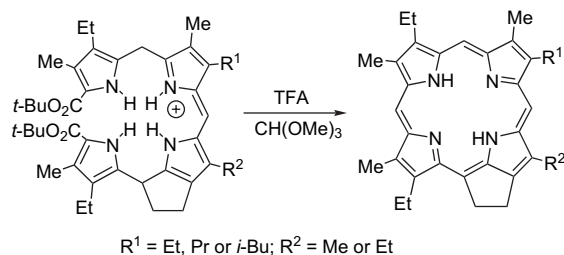
Rosaria Villano,\* Maria Rosaria Acocella, Antonio Massa, Laura Palombi and Arrigo Scettri\*



**Porphyrins with exocyclic rings. Part 22: Synthesis of deoxophylloerythroetioporphyrin (DPEP), three ring homologues, and five related nonpolar bacterioporphyrins using a western ring closure and an improved *b*-bilene methodology** pp 12324–12342

Timothy D. Lash,\* Wei Li and Desiree M. Quizon-Colquitt

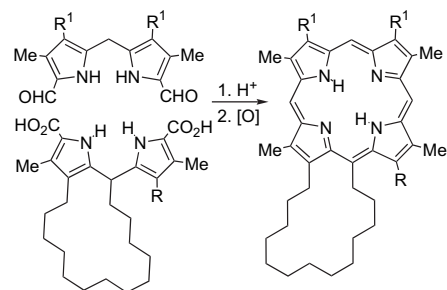
Deprotection of the terminal *tert*-butyl ester protective groups of *b*-bilenes incorporating fused carbocyclic rings with TFA, followed by dilution with CH<sub>2</sub>Cl<sub>2</sub>, and cyclization with trimethyl orthoformate, provides a facile methodology for the synthesis of geochemically significant cycloalkano-porphyrins.



**Porphyrins with exocyclic rings. Part 23: Synthesis of porphyrins with large exocyclic rings—cyclohexadeca[*b*]pyrroles and porphyrins therefrom** pp 12343–12351

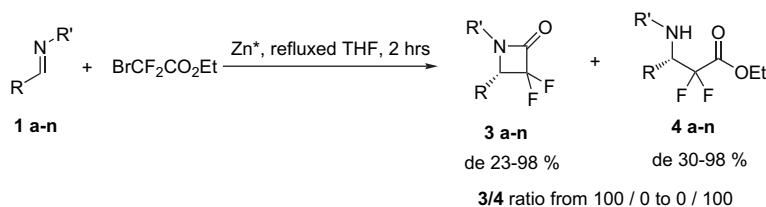
Timothy D. Lash,\* Thomas G. Marron and Jolie A. Bastian

Cyclohexadecanone and other large ring ketones undergo Knorr-type condensations with phenylhydrazones to afford cycloalka[*b*]pyrroles. A series of dipyrroles incorporating 16-membered rings were prepared from these pyrroles and used to synthesize porphyrins with large exocyclic rings.



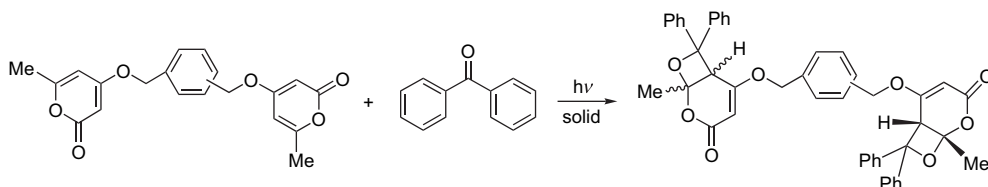
**Chemoselective and stereoselective synthesis of *gem*-difluoro- $\beta$ -aminoesters or *gem*-difluoro- $\beta$ -lactams from ethylbromodifluoroacetate and imines during Reformatsky reaction** pp 12352–12366

Nicolas Boyer, Philippe Gloanec, Guillaume De Nanteuil, Philippe Jubault\* and Jean-Charles Quirion\*



**Solid-state photocycloaddition of 6,6'-dimethyl-4,4'-[bis(methylenoxy)phenylene]-di-2-pyrones with benzophenone** pp 12367–12372

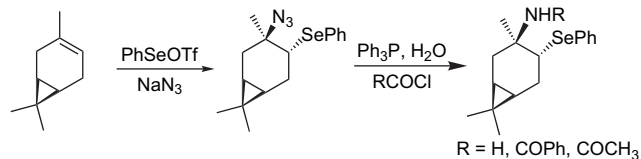
Weidong Wang, Tetsuro Shimo,\* Hiroaki Hashimoto and Kenichi Somekawa



**Synthesis of enantiomerically pure  $\beta$ -azidoselenides starting from natural terpenes**

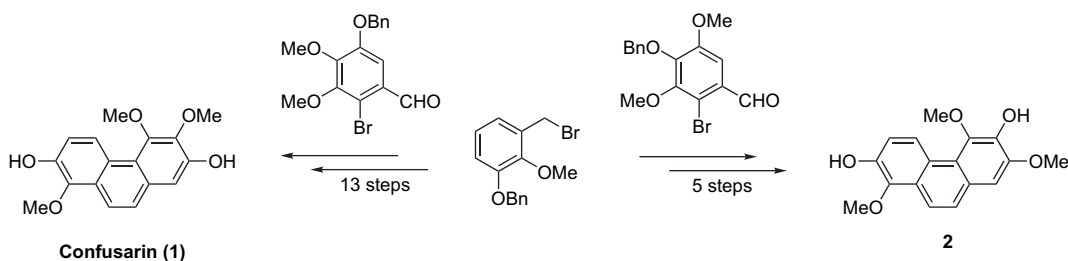
pp 12373–12378

Marcello Tiecco,\* Lorenzo Testaferri, Claudio Santi,\* Cristina Tomassini, Stefano Santoro, Francesca Marini, Luana Bagnoli and Andrea Temperini

**Total synthesis of two natural phenanthrenes: confusarin and a regioisomer**

pp 12379–12387

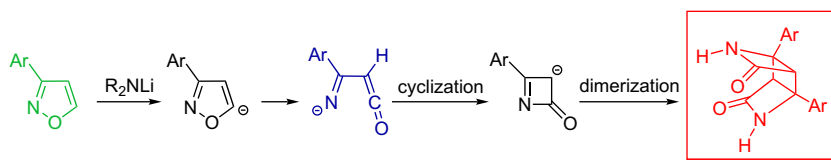
Sylvie Radix\* and Roland Barret\*

**Stereoselective dimerization of 3-arylisoxazoles to cage-shaped bis- $\beta$ -lactams *syn***

pp 12388–12395

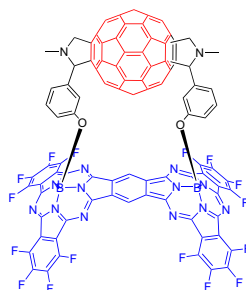
**2,6-diaryl-3,7-diazatricyclo[4.2.0.0<sup>2,5</sup>]octan-4,8-diones induced by hindered lithium amides**

Leonardo Di Nunno,\* Paola Vitale, Antonio Scilimati, Laura Simone and Francesco Capitelli

**Subphthalocyanine fused dimers–C<sub>60</sub> dyads: synthesis, characterization, and theoretical study**

pp 12396–12404

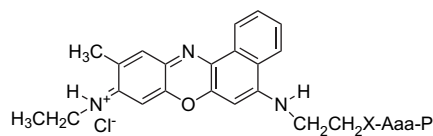
Rodrigo S. Iglesias, Christian G. Claessens, G. M. Aminur Rahman, M. Angeles Herranz, Dirk M. Guldi\* and Tomas Torres\*



**Synthesis of short and long-wavelength functionalised probes: amino acids' labelling and photophysical studies**

pp 12405–12418

Vânia H. J. Frade, Síría A. Barros, João C. V. P. Moura, Paulo J. G. Coutinho and M. Sameiro T. Gonçalves\*

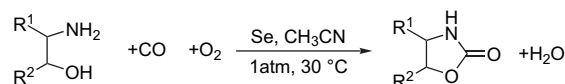


X = NH or CO  
 Aaa = Ala, Val, Gly, Phe, Glu(OMe), Lys  
 P = OMe or Boc

**A novel way to chiral 2-oxazolidinones: selenium-catalyzed cyclocarbonylation of 2-aminoethanols**

pp 12419–12423

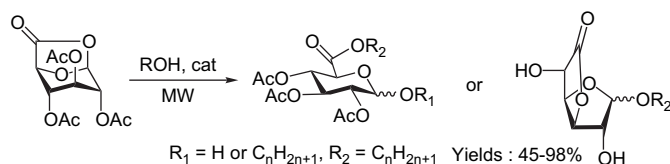
Peng Li, Xiaohua Yuan, Shudong Wang and Shiwei Lu\*



**Efficient glycosylation and/or esterification of D-glucuronic acid and its 6,1-lactone under solvent-free microwave irradiation**

pp 12424–12428

Stéphanie Rat, David Mathiron, Philippe Michaud, José Kovensky and Anne Wadouachi\*

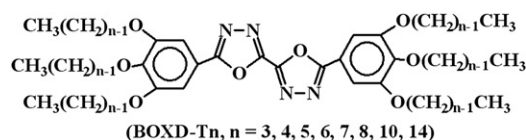


R<sub>1</sub> = H or C<sub>n</sub>H<sub>2n+1</sub>, R<sub>2</sub> = C<sub>n</sub>H<sub>2n+1</sub> Yields : 45-98%

**Columnar mesophases and phase behaviors of novel polycatenar mesogens containing bi-1,3,4-oxadiazole**

pp 12429–12436

Songnan Qu and Min Li\*



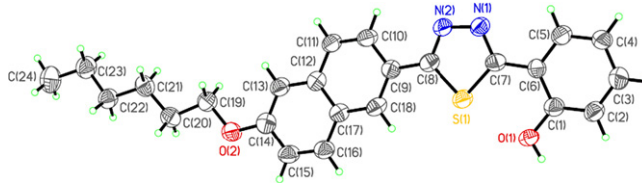
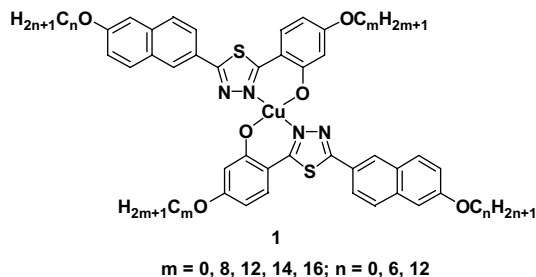
A new series of liquid-crystalline bi-1,3,4-oxadiazole derivatives with good fluorescence properties were designed and synthesized.



**New metallomesogens derived from unsymmetric 1,3,4-thiodiazoles: synthesis, single crystal structure, mesomorphism, and optical properties**

pp 12437–12445

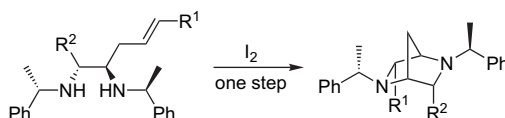
Cheng-Tsung Liao, Yueh-Ju Wang, Chi-Shuen Huang, Hwo-Shuenn Sheu, Gene-Hsiang Lee and Chung K. Lai\*



**Stereoselective synthesis of substituted 2,5-diazabicyclo[2.2.1]heptanes by iodine-mediated cyclization of optically pure compounds containing the 4,5-diamino-1,7-octadiene and 1,2-diamino-4-alkene moieties**

pp 12446–12453

Giuseppe Alvaro, Romano Di Fabio, Andrea Gualandi, Claudio Fiorelli, Magda Monari, Diego Savoia\* and Luca Zoli



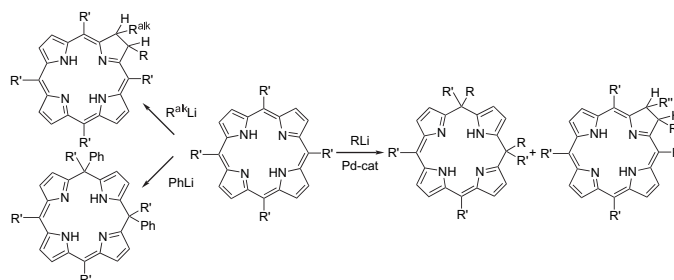
- a) R<sup>1</sup> = Ph; R<sup>2</sup> = Me, Ph, CH<sub>2</sub>CH=CHPh  
b) R<sup>1</sup> = CH=CH<sub>2</sub>; R<sup>2</sup> = Me, *n*-Bu



**Synthesis of hyporphyrins based on comparative studies of palladium-catalyzed and non-catalyzed approaches**

pp 12454–12464

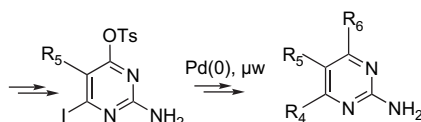
Natalia N. Sergeeva, Yasser M. Shaker, Eimear M. Finnigan, Thomas McCabe and Mathias O. Senge\*




**2-Amino-6-iodo-4-tosyloxypyrimidine: a versatile key intermediate for regioselective functionalization of 2-aminopyrimidines in 4- and 6-positions**

pp 12465–12470

Pascal Benderitter, João Xavier de Araújo Júnior, Martine Schmitt\* and Jean-Jacques Bourguignon



\*Corresponding author

 Supplementary data available via ScienceDirect



Full text of this journal is available, on-line from **ScienceDirect**. Visit [www.sciencedirect.com](http://www.sciencedirect.com) for more information.

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