

Tetrahedron Letters Vol. 51, No. 26, 2010

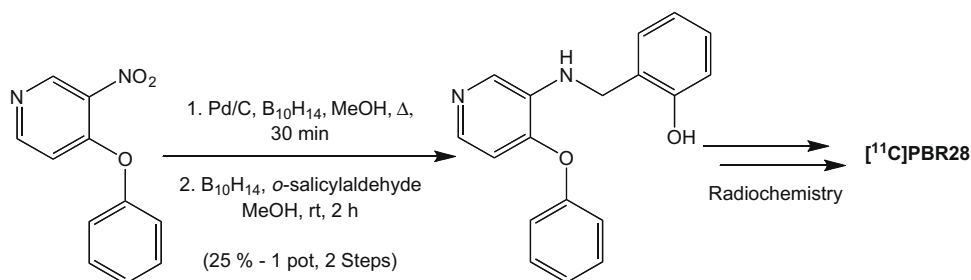
Contents

COMMUNICATIONS

A novel one-pot palladium-mediated synthesis of *N*-[(2-hydroxyphenyl)methyl]-*N*-(4-phenoxy-3-pyridinyl)acetamide, the precursor to [¹¹C]PBR28, a PET biomarker for the peripheral benzodiazepine receptor

pp 3353–3355

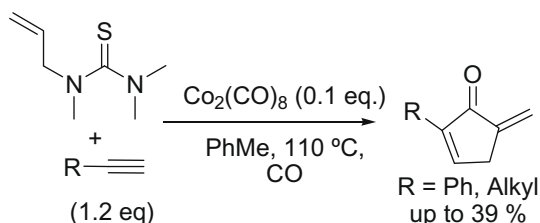
Raphaël Hoareau, Peter J. H. Scott*



Short synthesis of methylenecyclopentenones by intermolecular Pauson–Khand reaction of allyl thiourea

pp 3356–3359

Željko Petrovski*, Bruno M. R. Martins, Carlos A. M. Afonso*



N,N,N-Trimethylallylthiourea promotes the intermolecular Pauson–Khand reaction with alkynes in the presence of $\text{Co}_2(\text{CO})_8$ and moderate pressure of CO followed by thiourea elimination allowing the formation of methylenecyclopentenone derivatives.



Synthetic application of photoactive porous monolithic polymers

pp 3360–3363

M. Isabel Burguete, Raquel Gavara, Francisco Galindo*, Santiago V. Luis*



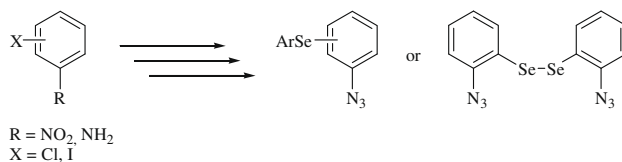
The oxidation of 2-furoic acid to 5-hydroxy-5H-furan-2-one has been accomplished in quantitative yield in chloroform using a novel supported photocatalyst. This material comprises Rose Bengal grafted to the surface of a highly crosslinked polystyrene-divinylbenzene polymer, which was synthesized in a porous monolithic format.



Synthesis of azido arylselenides and azido aryldiselenides: a new class of selenium–nitrogen compounds

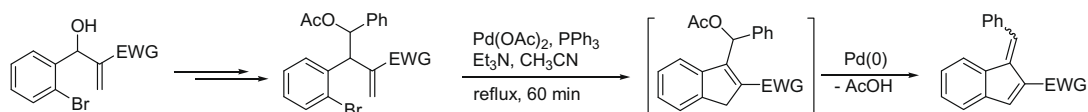
pp 3364–3367

Anna Maria Deobald, Leandro R. Simon de Camargo, Greice Tabarelli, Manfredo Hörner, Oscar E. D. Rodrigues, Diego Alves, Antônio L. Braga*

**Facile synthesis of benzofulvene derivatives from Baylis–Hillman adducts: In-mediated Barbier reaction combined with Pd(0)-catalyzed intramolecular Heck-elimination cascade**

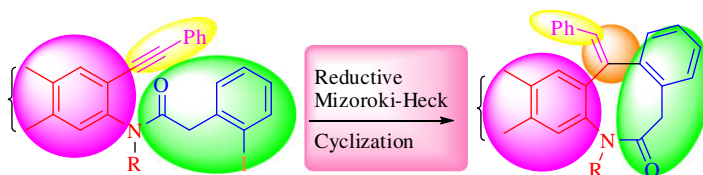
pp 3368–3371

Ko Hoon Kim, Sung Hwan Kim, Bo Ram Park, Jae Nyoung Kim*

**Palladium-mediated reductive Mizoroki–Heck cyclization strategy for the regioselective formation of dibenzoazocinone framework**

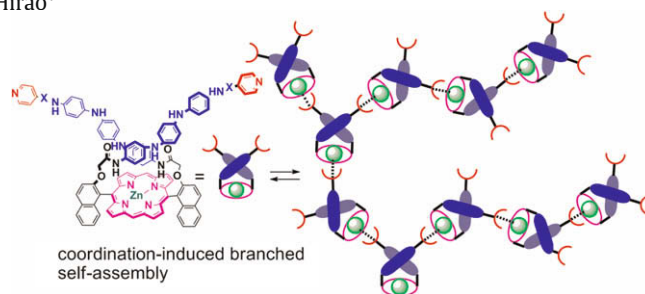
pp 3372–3375

K. C. Majumdar*, Tapas Ghosh, Santanu Chakravorty

**Coordination-induced branched self-assembly of porphyrins bearing two redox-active phenylenediamine chains**

pp 3376–3379

Toru Amaya, Taiki Ueda, Toshikazu Hirao*



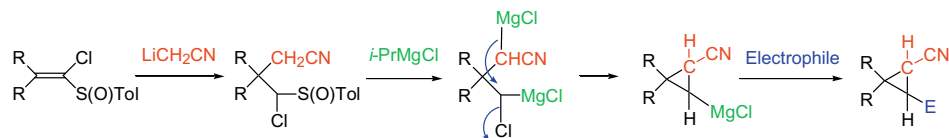
The porphyrins bearing two oligoaniline chains with terminal pyridyl groups were synthesized. The self-assembled branched polymer complex by introducing Zn(II) to the porphyrin was achieved in solution, which underwent dropcasting on the surface of mica to result in dome-like nanostructures.



A new synthesis of cyanocyclopropanes by the intramolecular alkylation of magnesium carbenoids as the key reaction

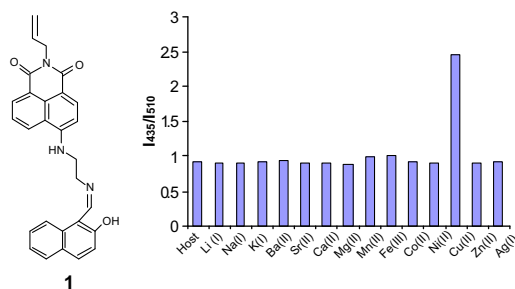
pp 3380–3384

Hideki Saitoh, Tsuyoshi Satoh*

**Ratiometric fluorescent detection of Cu(II) in semi-aqueous solution using a two-fluorophore approach**

pp 3385–3387

Narinder Singh, Navneet Kaur, Bridgeen McCaughan, John F. Callan*

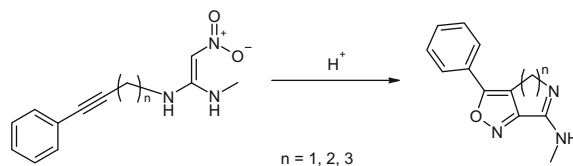


Probe **1** detects Cu(II) in semi-aqueous solution from a ratiometric change (I_{435}/I_{510}) in fluorescence when tested against a range of physiological and environmentally important cations.

The acid-mediated intramolecular 1,3-dipolar cycloaddition of derived 2-nitro-1,1-ethenediamines for the synthesis of novel fused bicyclic isoxazoles

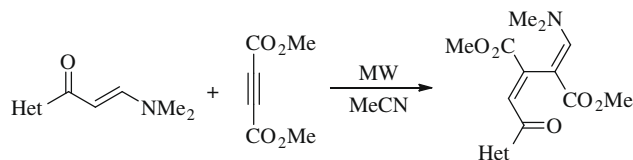
pp 3388–3391

Lee W. Page*, Matthew Bailey, Paul J. Beswick, Simon Frydrych, Robert J. Gleave

**[2+2] Cycloaddition of electron-poor acetylenes to (E)-3-dimethylamino-1-heteroaryl-prop-2-en-1-ones: synthesis of highly functionalized 1-heteroaryl-1,3-butadienes**

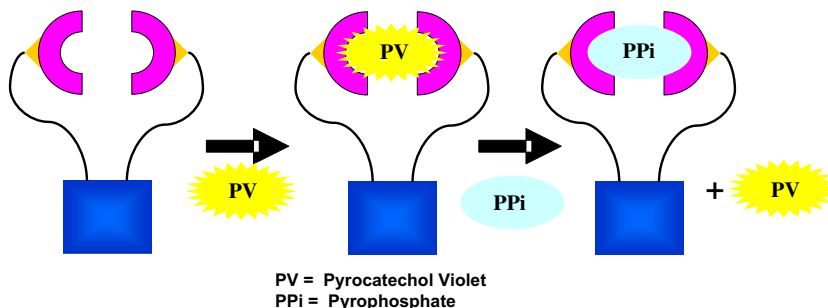
pp 3392–3397

Jure Bezenšek, Tanja Koleša, Uroš Grošelj, Jernej Waggener, Katarina Stare, Anton Meden, Jurij Svete, Branko Stanovnik*



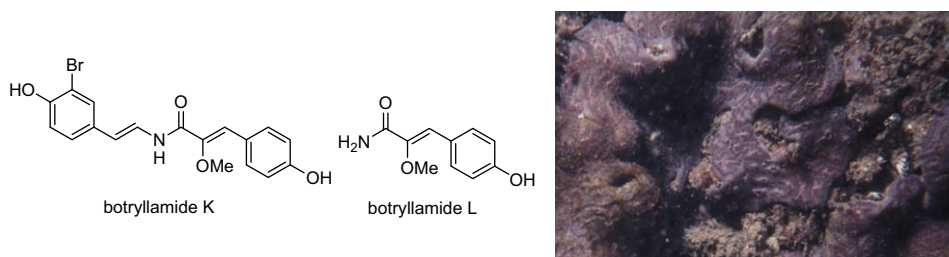
Selective detection of pyrophosphate by new tripodal amine calix[4]arene-based Cu(II) complexes using indicator displacement strategy pp 3398–3402

Sarayut Watchasit, Arpadsara Kaowliew, Chomchai Suksai*, Thawatchai Tuntulani, Wittaya Ngeontae, Chaveng Pakawatchai



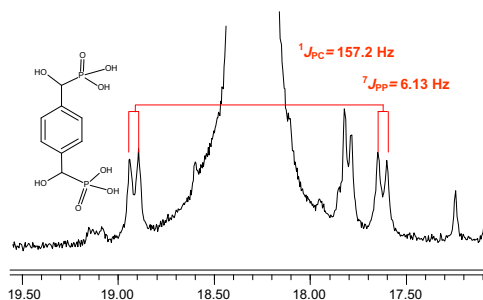
Botryllamides K and L, new tyrosine derivatives from the Australian ascidian *Aplidium altarium* pp 3403–3405

Sheng Yin, Carleen Cullinane, Anthony R. Carroll, Ronald J. Quinn, Rohan A. Davis*



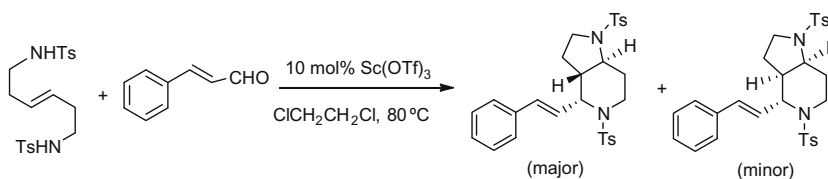
Long range phosphorus–phosphorus coupling constants in bis(phosphorylhydroxymethyl)benzene derivatives pp 3406–3411

Marek Doscocz, Barbara Malinowska*, Piotr Młynarz, Barbara Lejczak, Paweł Kafarski



Sc(OTf)₃-catalyzed intramolecular aza-Prins cyclization for the synthesis of heterobicycles pp 3412–3416

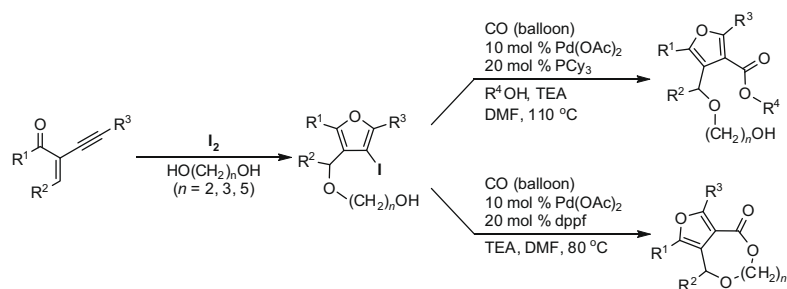
B. V. Subba Reddy*, Prashant Borkar, P. Pawan Chakravarthy, J. S. Yadav, Rene Gree



A convenient synthetic route to furan esters and lactones by palladium-catalyzed carboalkoxylation or cyclocarbonylation of hydroxyl-substituted 3-iodofurans

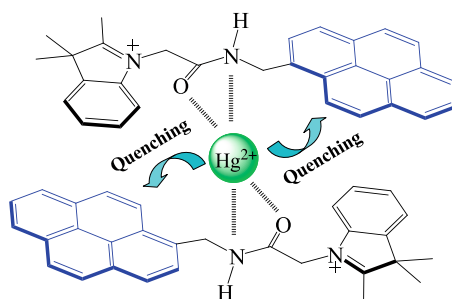
pp 3417–3421

Chul-Hee Cho, Richard C. Larock*

**A highly selective pyrene based fluorescent sensor toward Hg²⁺ detection**

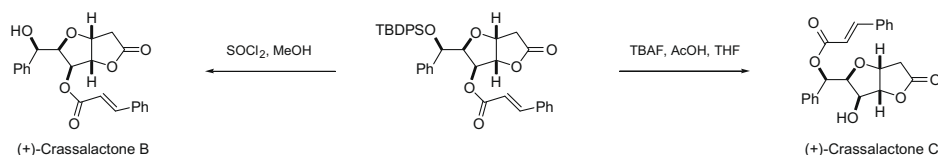
pp 3422–3425

Yang Yang, Xiaojun Gou, John Blecha, Haishi Cao*

**Divergent synthesis of cytotoxic styryl lactones isolated from *Polyalthia crassa*. The first total synthesis of crassalactone B**

pp 3426–3429

Velimir Popsavin*, Goran Benedeković, Mirjana Popsavin, Vesna Kojić, Gordana Bogdanović

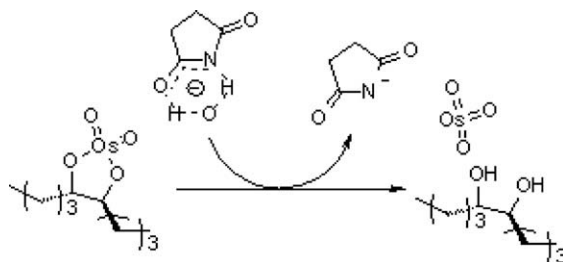


Crassalactones B and C can be selectively accessed by changing the conditions for TBDPS cleavage in the final intermediate derived from D-glucose.

Catalysts/cosolvents and general acid catalysts for acceleration of the hydrolysis of osmate(VI) esters

pp 3430–3432

Mikko H. Junttila, Osmo E. O. Hormi*

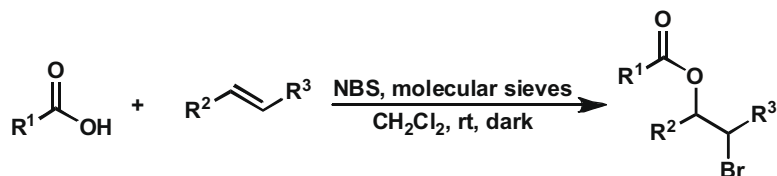


Catalysts/cosolvents accelerate the hydrolysis of osmate(VI) esters of aliphatic olefins by aiding in transferring the nucleophile from the water phase to the tBuOH phase.



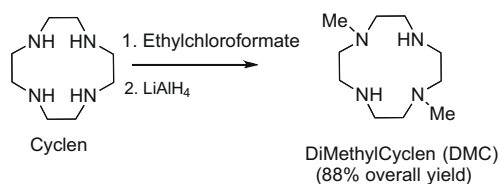
Molecular sieves as an efficient and recyclable catalyst for bromolactonization and bromoacetoxylation reactions pp 3433–3435

Feng Chen, Xiaojian Jiang, Jun Cheng Er, Ying-Yeung Yeung*

**Short and straightforward synthesis of 1,7-dimethyl-1,4,7,10-tetraazacyclododecane**

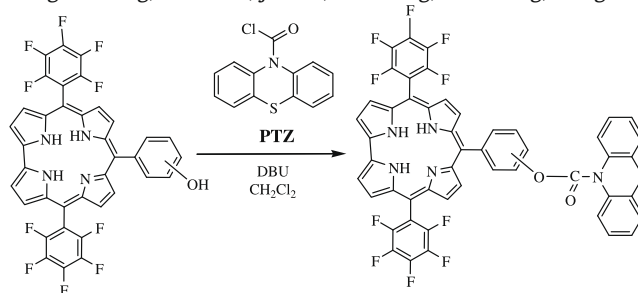
pp 3436–3438

Giovanni Piersanti*, Maria Antonietta Varrese, Vieri Fusi, Luca Giorgi, Giovanni Zappia*

**Synthesis of phenothiazine-corrole dyads: the enhanced DNA photocleavage properties**

pp 3439–3442

Lei Shi, Hai-Yang Liu*, Kai-Mei Peng, Xiang-Li Wang, Li-Li You, Jun Lu, Lei Zhang, Hui Wang, Liang-Nian Ji, Huan-Feng Jiang*

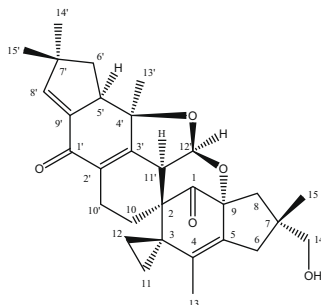


Three new phenothiazine-corrole dyads were prepared by the reaction of phenothiazine-10-carbonyl chloride and mono-hydroxyl triaryl corrole in the presence of DBU. These phenothiazine-corrole dyads exhibit significant enhanced DNA photocleavage activity as compared to corrole monomer precursors.

Agrocybone, a novel bis-sesquiterpene with a spirodienone structure from basidiomycete *Agrocybe salicicola*

pp 3443–3445

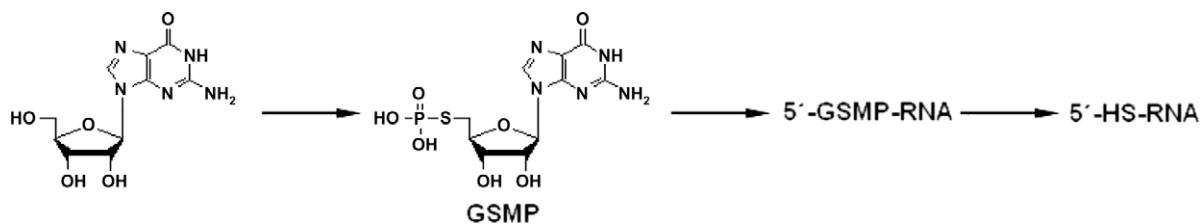
Ying-Cheng Zhu, Gang Wang, Xiao-Long Yang, Du-Qiang Luo, Qin-Chang Zhu, Tao Peng, Ji-Kai Liu*



Two-step synthesis of 5'-deoxy-5'-thioguanosine-5'-monophosphorothioate and its incorporation efficiency into 5'-terminus of RNA for preparation of thiol-functionalized RNA

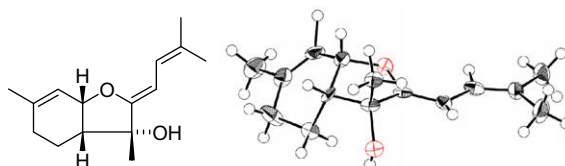
pp 3446–3448

Il-Hyun Kim, Seonmi Shin, Yong-Joo Jeong, Sang Soo Hah*

**Ashitabaol A, a new antioxidative sesquiterpenoid from seeds of *Angelica keiskei***

pp 3449–3450

Nobuwa Aoki, Shinji Ohta*

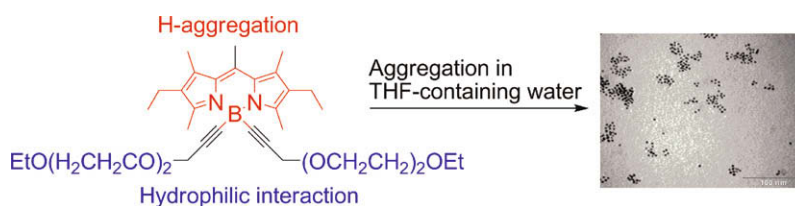


The structure of ashitabaol A was determined on the basis of spectroscopic data and X-ray crystallographic analysis.

Nanoparticles via H-aggregation of amphiphilic BODIPY dyes

pp 3451–3454

Yuichiro Tokoro, Atsushi Nagai, Yoshiki Chujo*



*Corresponding author

Supplementary data available via ScienceDirect

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