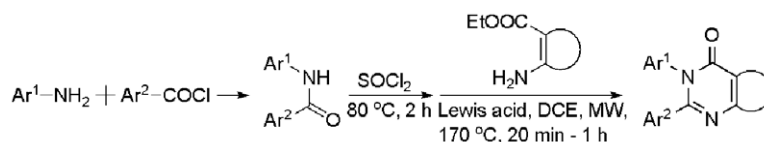


Contents

COMMUNICATIONS

Highly efficient synthesis of fused bicyclic 2,3-diaryl-pyrimidin-4(3*H*)-ones via Lewis acid assisted cyclization reaction pp 1725–1728

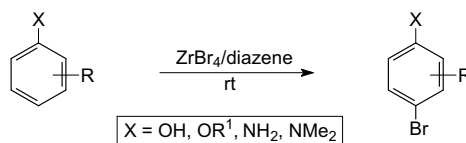
Kunyong Yang *, Xiaohui He, Ha-soon Choi, Zhicheng Wang, David H. Woodmansee, Hong Liu



An expedient one-pot synthesis of fused bicyclic 2,3-diaryl-pyrimidin-4(3*H*)-ones is described. The key step is a Lewis acid assisted cyclization reaction.

Regioselective bromination of activated aromatic substrates with a ZrBr₄/diazene mixture pp 1729–1733

Tadej Stropnik, Sergeja Bombek, Marijan Kočevar, Slovenko Polanc *

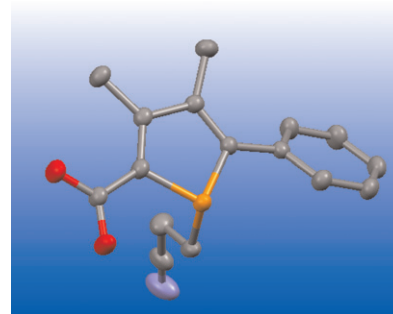


A regioselective method for the bromination of phenols, ethers and anilines using a ZrBr₄/diazene mixture is described.

The microwave-assisted synthesis of a 2-carboxyphosphole pp 1734–1737

Steven van Zutphen *, Guilhem Mora, Vicente J. Margarit, Xavier F. Le Goff, Duncan Carmichael, Pascal Le Floch

The synthesis and coordination chemistry of a 2-carboxyphosphole, suitable for introduction in a polypeptide, is described.

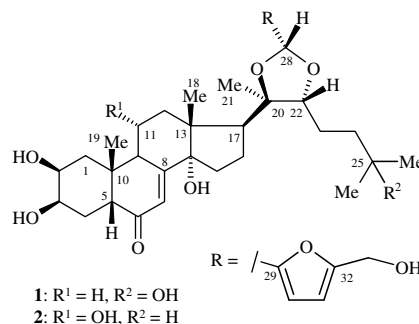


The first two edysteroids containing a furan ring from *Serratula wolffii*

pp 1738–1740

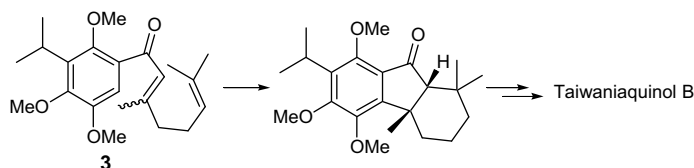
Erika Liktör-Busa, András Simon, Gábor Tóth, Mária Báthori *

The isolation and structure elucidation of serfurosterone A (**1**) and serfurosterone B (**2**), novel edysteroids from *Serratula wolffii*, are described.

**Acid-promoted sequential cationic cyclizations for the synthesis of (±)-taiwaniaquinol B**

pp 1741–1744

Shuoliang Li, Pauline Chiu *

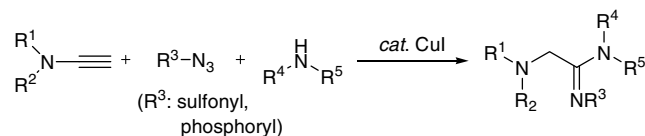


Sequential treatment of dienone **3** with Lewis then Brønsted acid promoted cyclizations resulting in a synthesis of taiwaniaquinol B.

**Highly efficient synthesis of α-amino amidines from ynamides by the Cu-catalyzed three-component coupling reactions**

pp 1745–1749

Ji Young Kim, Seok Hwan Kim, Sukbok Chang *

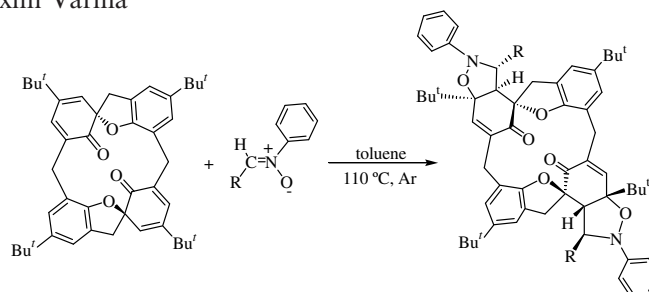


α-Amino amidines were efficiently prepared by the Cu-catalyzed three-component coupling of ynamides, sulfonyl or phosphoryl azides, and amines under mild conditions.

**Novel 1,3-dipolar cycloaddition reactions of calix[4]bis(spirodienones): synthesis of isoxazolidine derived macrocycles**

pp 1750–1752

V. B. Ganga, E. Suresh, R. Luxmi Varma *

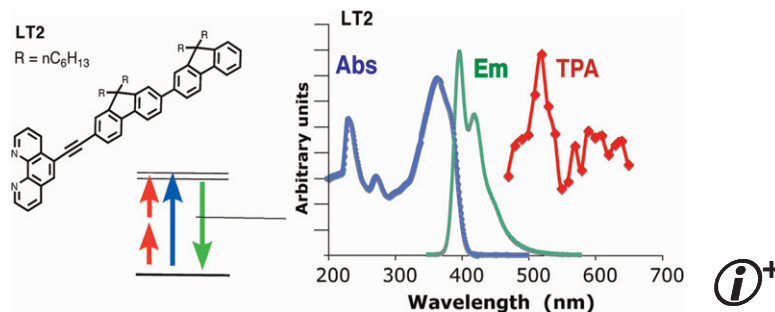


Novel 5-(oligofluorenyl)-1,10-phenanthroline type ligands: synthesis, linear and two-photon absorption properties

pp 1753–1758

C. Girardot, G. Lemerrier *, J.-C. Mulatier, C. Andraud *, J. Chauvin, P. L. Baldeck

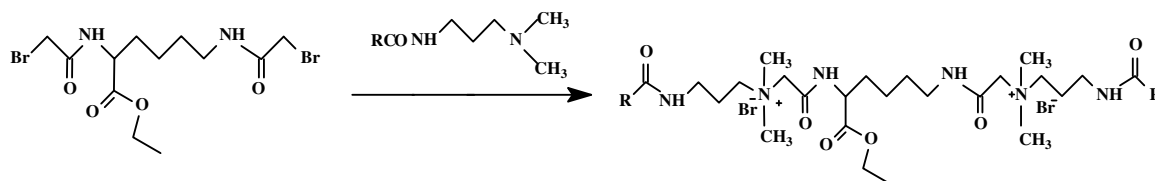
Synthesis, linear and nonlinear (TPA) optical properties of fluorenyl substituted-1,10-phenanthroline ligands are described.



Synthesis and antimicrobial characterization of novel L-lysine gemini surfactants pended with reactive groups

pp 1759–1761

Hong Tan, Huining Xiao *

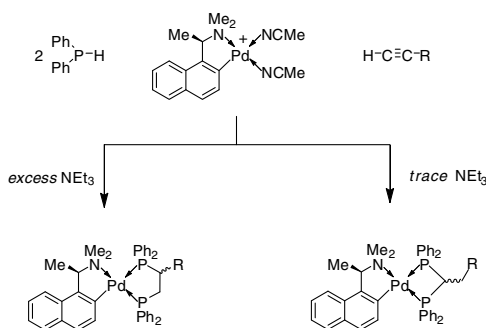


A series of novel quaternary ammonium gemini surfactants of L-lysine containing ester group were synthesized with N,N'-bisbromoacetyl-L-lysine ethyl ester and fluorinated or hydrocarbon fatty acid (3-dimethyl amino-propyl) amides. The pended ester group provides a reactive site for incorporating the surfactant into polymers.

Base controlled (1,1)- and (1,2)-hydrophosphination of functionalized alkynes

pp 1762–1767

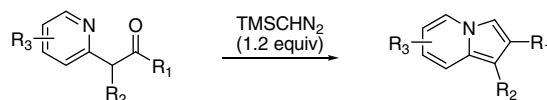
Yi Zhang, Lulu Tang, Yi Ding, Jia-Hui Chua, Yongxin Li, Mingjun Yuan, Pak-Hing Leung *



A mild preparation of substituted indolizines and indole from simple aromatic precursors using (trimethylsilyl)diazomethane

pp 1768–1770

Liusheng Zhu, Marc Vimolratana, Sean P. Brown, Julio C. Medina *

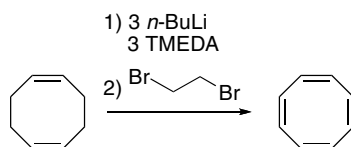


A mild and convenient synthesis of substituted indolizines from readily available 2-(pyridin-2-yl)acetyl derivatives using (trimethylsilyl)diazomethane is described. The extension of this methodology to the synthesis of indole from 2-aminobenzaldehyde is also reported.

Simple and convenient one-pot synthesis of cyclooctatetraene

pp 1771–1772

Supriyo Majumder, Aaron L. Odom *

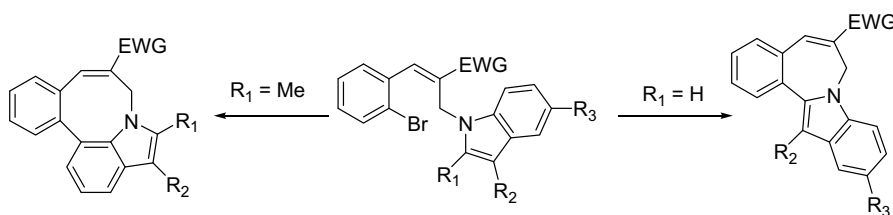


Cyclooctatetraene is readily synthesized by the oxidation of in situ generated [Li(TMEDA)]₂[C₈H₈] with 1,2-dibromoethane. The product is readily isolated and produced without the use of hazardous or toxic reagents.

Pd-Mediated synthesis of 7*H*-benzo[3,4]azepino[1,2-*a*]indole-6-carboxylic acid derivatives from indole-containing Baylis–Hillman adducts

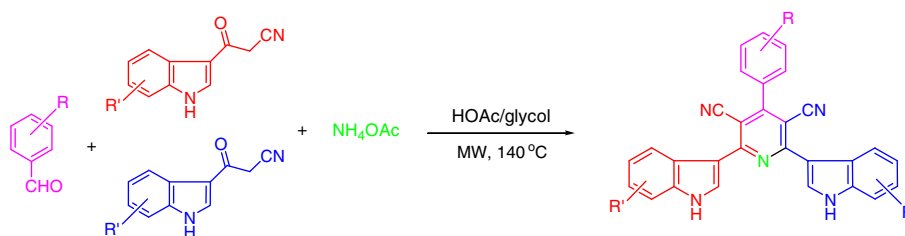
pp 1773–1776

Hyun Seung Lee, Sung Hwan Kim, Taek Hyeon Kim, Jae Nyoung Kim *

**Facile and efficient synthesis of a new class of bis(3'-indolyl)pyridine derivatives via one-pot multicomponent reactions**

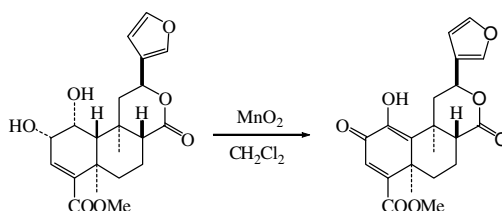
pp 1777–1781

Song-Lei Zhu, Shun-Jun Ji *, Xiao-Ming Su, Chang Sun, Yu Liu

**Synthesis of deacetyl-1,10-didehydrosalvinorin G**

pp 1782–1785

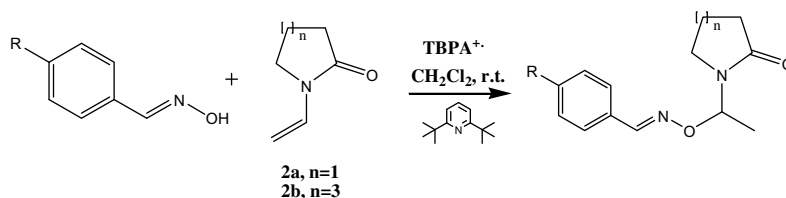
Zhongze Ma, David Y. W. Lee *



O-Alkylation of oxime with *N*-vinyl lactams induced by radical cation

pp 1786–1789

Xiao-dong Jia *, Yu-xia Da, Cai-xia Yang, Li Yang, Zhong-li Liu

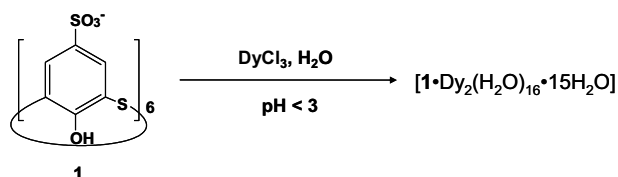


Radical cation promoted O-alkylation of oxime with *N*-vinyl lactam was achieved under base free condition by using catalytic tris(4-bromophenyl)aminium cation radical (TBPA⁺SbCl₆⁻) as an initiator to produce the corresponding oxime ether in high yields.

Hydrogen-bonded architecture based on *p*-sulfonatocalix[6]arene complex with dysprosium(III) cations and water molecules

pp 1790–1794

Manabu Yamada, Yoshihiko Kondo, Fumio Hamada *

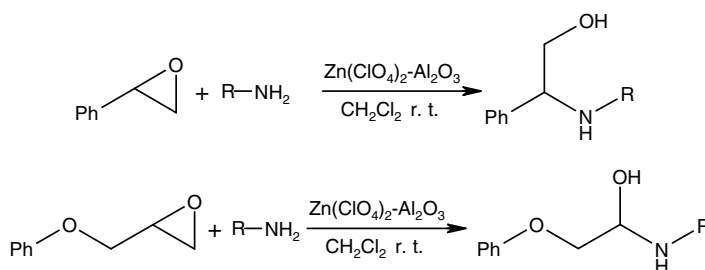


p-Sulfonatocalix[6]arene (**1**) complex with two octa-aqua dysprosium metal cations and 15 water molecules was examined by single-crystal X-ray diffraction studies. The complex showed a supramolecular assembly because there are π - π stacking and hydrogen bonding interactions among host **1**, aquated dysprosium cations and water molecules.

**Regioselective ring-opening of epoxides with amines using Zn(ClO₄)₂-Al₂O₃ as a heterogeneous and recyclable catalyst**

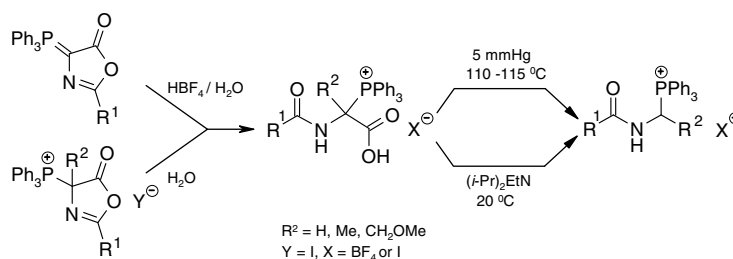
pp 1795–1800

Muchintala Maheswara, Kummari Subba Venkata Krishna Rao, Jung Yun Do *

**Synthesis and decarboxylation of *N*-acyl- α -triphenylphosphonio- α -amino acids: a new synthesis of α -(*N*-acylamino)alkyltriphenylphosphonium salts**

pp 1801–1803

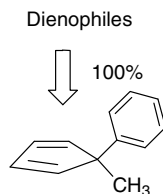
Roman Mazurkiewicz *, Agnieszka Październiak-Holewa, Mirosława Grymel



Contrastreric Diels–Alder reactions of 5-methyl-5-phenylcyclopentadiene

pp 1804–1807

Masaru Ishida *, Makoto Itakura, Hiroshi Tashiro



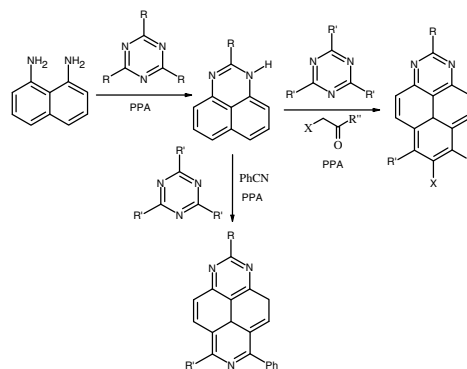
Contrastreric Diels–Alder reaction of 5-phenylcyclopentadiene was predicted on the basis of the orbital mixing rule. The prediction was substantiated experimentally by the reactions of 5-methyl-5-phenylcyclopentadiene.

Novel three-component *peri*-annulation reactions of carbocyclic and pyridine rings with perimidines— synthesis of 1,3-diazapyrenes and 1,3,7-triazapyrenes

pp 1808–1811

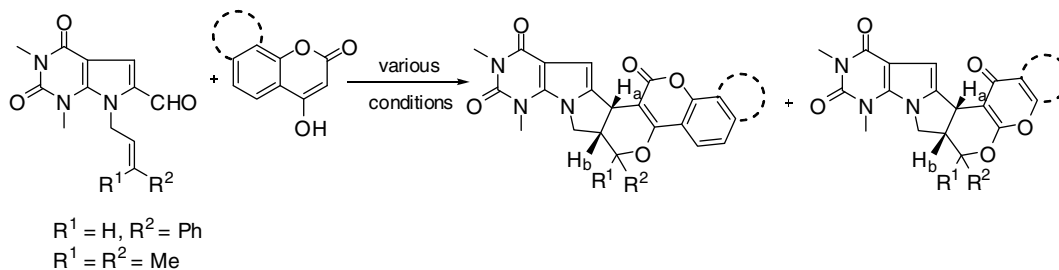
Alexander V. Aksenov *, Alexander S. Lyahovnenko, Inna V. Aksenova, Oleg N. Nadein

A new synthetic method for 1,3-diazapyrenes and 1,3,7-triazapyrenes is developed based on the three-component reaction of perimidines or 1,8-diaminonaphthalene with 1,3,5-triazines and carbonyl compounds or benzonitrile in polyphosphoric acid (PPA).

**An expedient microwave-assisted, solvent-free, solid-supported synthesis of pyrrolo[2,3-*d*]pyrimidine-pyrano[5,6-*c*]coumarin/[6,5-*c*]chromone derivatives by intramolecular hetero Diels–Alder reaction**

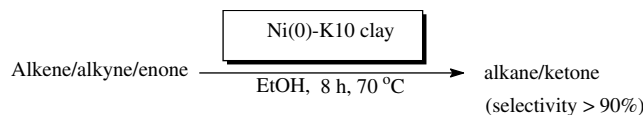
pp 1812–1817

Ekambaram Ramesh, Raghavachary Raghunathan *

**Clay entrapped nickel nanoparticles as efficient and recyclable catalysts for hydrogenation of olefins**

pp 1818–1823

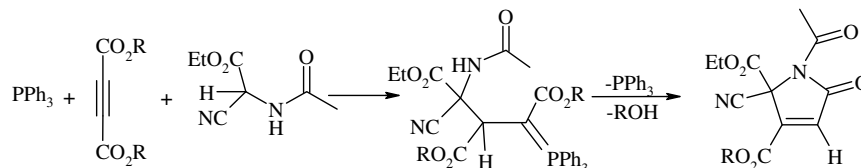
Amarajothi Dhakshinamoorthy, Kasi Pitchumani *



A facile route to *N*-acetyl α,β -unsaturated γ -lactam derivatives using ethyl acetamidocyanoacetate and dialkyl acetylenedicarboxylate in the presence of triphenylphosphine

pp 1824–1827

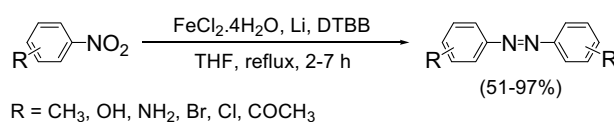
Sakineh Asghari *, Mahmood Tajbakhsh, Vali Taghipour



Synthesis of azo compounds by nanosized iron-promoted reductive coupling of aromatic nitro compounds

pp 1828–1831

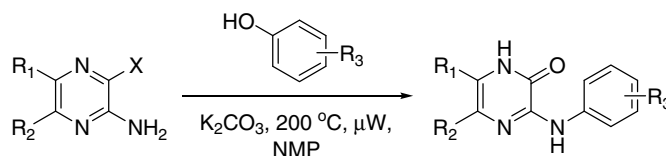
Yanina Moglie, Cristian Vitale, Gabriel Radivoy *



Novel syntheses of 3-anilino-pyrazin-2(1*H*)-ones and 3-anilino-quinoxalin-2-(1*H*)-ones via microwave-mediated Smiles rearrangement

pp 1832–1835

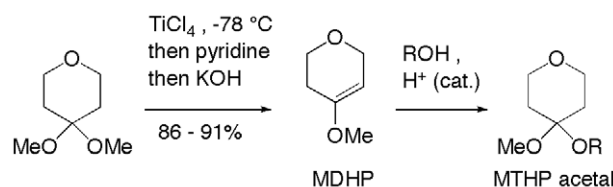
F. Christopher Bi *, Gary E. Aspnes, Angel Guzman-Perez, Daniel P. Walker



Efficient preparation of 4-methoxy-5,6-dihydro-2*H*-pyran

pp 1836–1838

Nitesh Panchal, Arantxa Fernandez-Yarza, Paul Free, Piers R. J. Gaffney *



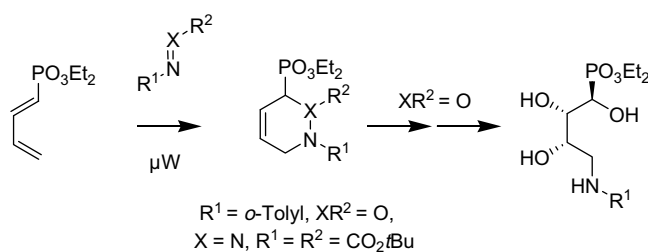
Methoxydihydropyran (MDHP) is efficiently prepared permitting ready access to 4-methoxytetrahydropyran-4-yl (MTHP) acetal protection for alcohols.



[4+2] Cycloaddition of 1-phosphono-1,3-butadiene with azo- and nitroso-heterodienophiles

pp 1839–1842

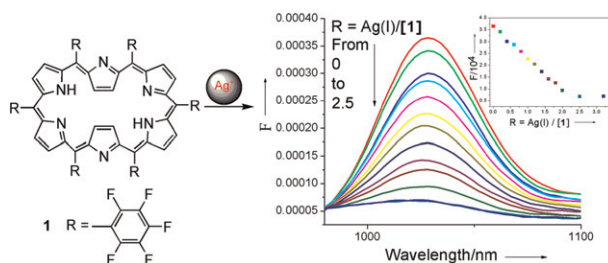
Jean-Christophe Monbaliu, Jacqueline Marchand-Brynaert *

**A near-infrared fluorescent chemodosimeter for silver(I) ion based on an expanded porphyrin**

pp 1843–1846

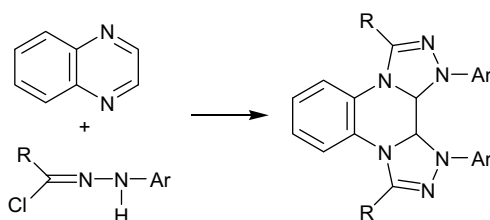
Xunjin Zhu, Shitao Fu, Wai-Kwok Wong *, Wai-Yeung Wong *

An expanded porphyrin **1** can act as a chemodosimeter for Ag^+ ions via near-infrared luminescence above 900 nm, a region that is free from optical interference in the visible range.

**Bis-1,2,4-triazolo[4,3-*a*:3',4'-*c*]quinoxalines of pharmaceutical interest from 1,3-dipolar cycloaddition**

pp 1847–1850

Antonino Lauria *, Annalisa Guarcello, Gaetano Dattolo, Anna Maria Almerico

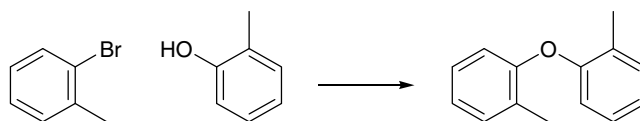


New derivatives of the heterocyclic system 1,12,12a,12b-tetrahydrobis-1,2,4-triazolo[4,3-*a*:3',4'-*c*]quinoxaline of pharmaceutical interest have been synthesized by 1,3-dipolar cycloaddition of aryl nitrilimines to quinoxalines.

**Bio-inspired copper catalysts for the formation of diaryl ethers**

pp 1851–1855

Thomas Schareina, Alexander Zapf, Alain Cotté, Nikolaus Müller, Matthias Beller *

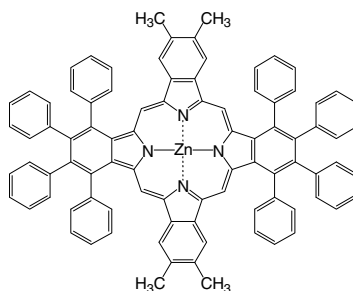


A novel Cu(I)/1-alkylimidazole catalyst system and its application in the C–O coupling reaction of aryl bromides with substituted phenols is described.

Synthesis and electronic structures of D_{2h} -symmetry tetrabenzoporphyrins

pp 1856–1859

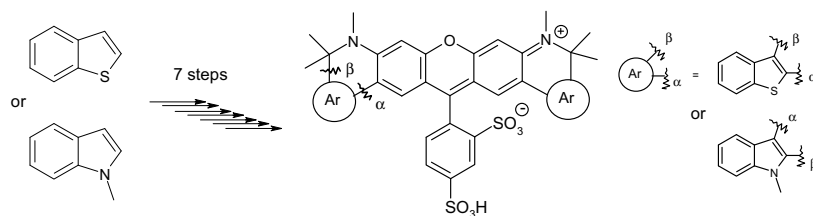
Atsuya Muranaka, Osamu Matsushita, Masaharu Numao, Yayoi Kobayashi, Nagao Kobayashi *



Synthesis of fluorescent rhodamine dyes using an extension of the Heck reaction

pp 1860–1864

Emilie David, Johan Lejeune, Stéphane Pellet-Rostaing *, Jürgen Schulz, Marc Lemaire *, Jérôme Chauvin, Alain Deronzier

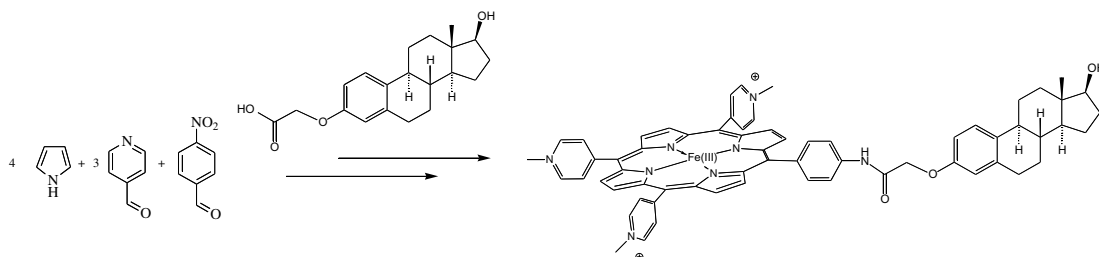


Benzo[*b*]thiophene and indole containing rhodamine dyes were synthesized using a Heck-type coupling and a Pictet–Spengler reaction.

Synthesis of a new estradiol–iron metalloporphyrin conjugate used to build up a new hybrid biocatalyst for selective oxidations by the ‘Trojan horse’ strategy

pp 1865–1869

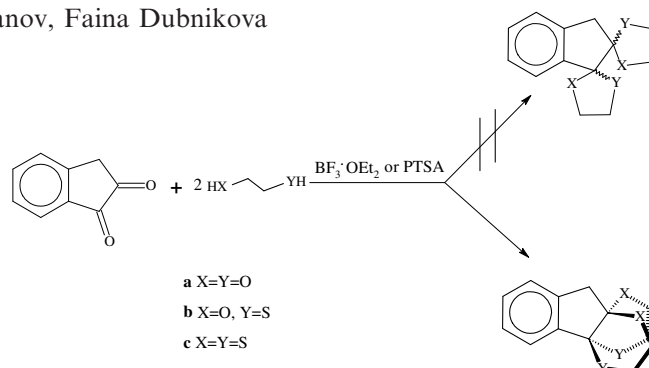
Quentin Raffy, Rémy Ricoux, Jean-Pierre Mahy *



Protection of the carbonyl groups in 1,2-indanedione: propellane versus acetal formation

pp 1870–1876

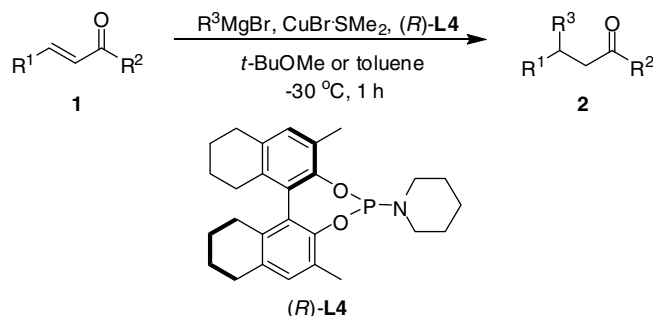
Joseph Almog *, Nikolay Stepanov, Faina Dubnikova



Copper-catalyzed enantioselective conjugate addition of Grignard reagents to acyclic enones using monodentate phosphoramidite ligands

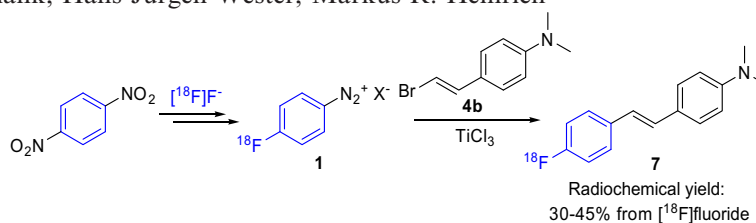
pp 1877–1880

Beatriz Maciá, M. Ángeles Fernández-Ibáñez, Nataša Mršić, Adriaan J. Minnaard *, Ben L. Feringa *


Radical fluoroarylation in radiochemical synthesis

pp 1881–1883

Christina Hultsch, Olga Blank, Hans-Jürgen Wester, Markus R. Heinrich *

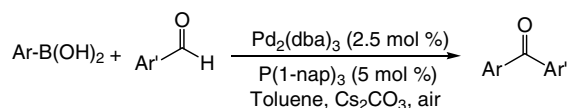


Radical [¹⁸F]fluoroarylation of bromostyrene **4b** with 4-[¹⁸F]fluorobenzenediazonium salt **1** provides a new, highly efficient access to stilbene **7**, which is an important lead structure of probes for Alzheimer plaque imaging by positron emission tomography (PET).


One-pot synthesis of diaryl ketones from aldehydes via palladium-catalyzed reaction with aryl boronic acids

pp 1884–1888

Changming Qin, Jiuxi Chen, Huayue Wu *, Jiang Cheng *, Qiang Zhang, Bing Zuo, Weike Su, Jinchang Ding



*Corresponding author

Supplementary data available via ScienceDirect

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