



Tetrahedron Vol. 67, Issue 11, 2011

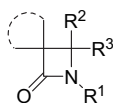
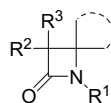
Contents

REPORT

Synthesis and reactivity of spiro-fused β -lactams

Girija S. Singh*, Matthias D'hooghe, Norbert De Kimpe*

pp 1989–2012

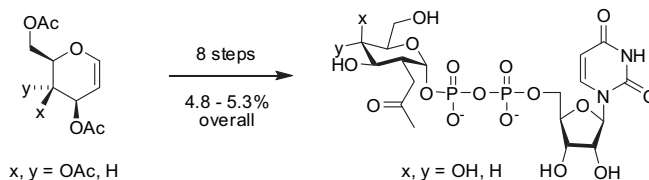
C3 spiro-fused
2-azetidinonesC4 spiro-fused
2-azetidinones

ARTICLES

Improved synthesis of UDP-2-(2-ketopropyl)galactose and a first synthesis of UDP-2-(2-ketopropyl)glucose for the site-specific linking of biomolecules via modified glycan residues using glycosyltransferases

Andrés E. Dulcey*, Pradman K. Qasba, Jeffrey Lamb, Gary L. Griffiths

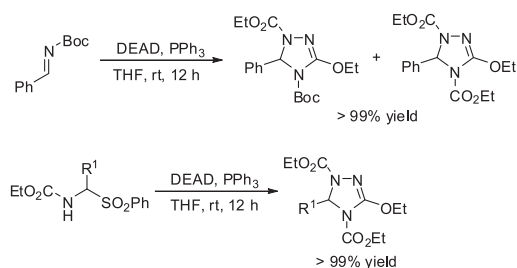
pp 2013–2017



Phosphine-mediated annulation of *N*-protected imines with DEAD

pp 2018–2024

Zhong Lian, Xiao-Yang Guan, Min Shi*

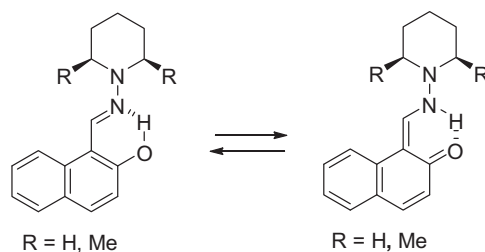


In the presence of triphenylphosphine, the reactions of *N*-protected imines or their precursors with DEAD proceeded smoothly to give the corresponding functionalized 1*H*-1,2,4-triazole-1,4(5*H*)-dicarboxylate derivatives in good to high yields under mild conditions. A plausible mechanism has been proposed on the basis of the control experiments.

**Hydrazones from hydroxy naphthaldehydes and *N*-aminoheterocycles: structure and stereodynamics**

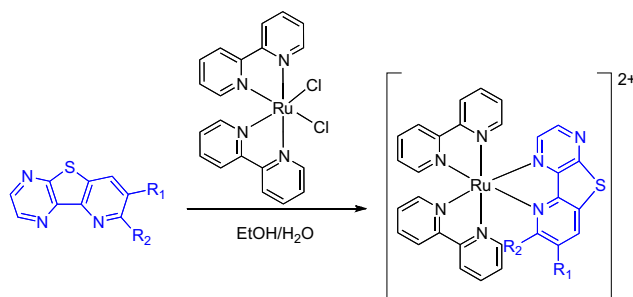
pp 2025–2034

R. Fernando Martínez*, Martín Ávalos, Reyes Babiano, Pedro Cintas, Mark E. Light, José L. Jiménez, Juan C. Palacios, Esther M.S. Pérez, Vicenta Rastrojo

**Preparation and study of pyridothienopyrazines and their Ruthenium(II) complexes: a new family of bidentate ligands**

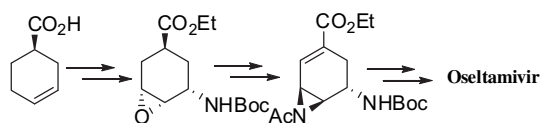
pp 2035–2043

Antonio Fernández-Mato, José María Quintela*, Carlos Peinador*, Carlos Platas-Iglesias

**Enantioselective synthesis of oseltamivir phosphate**

pp 2044–2050

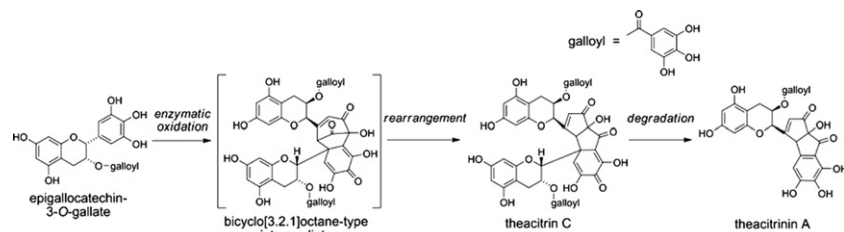
Sadagopan Raghavan*, Vaddela Sudheer Babu



An enantioselective synthesis of Tamiflu is disclosed. The key steps include an asymmetric Diels–Alder reaction, Mitsunobu inversion using Fukuyama modified Weinreb reagent and carbamate directed epoxidation.

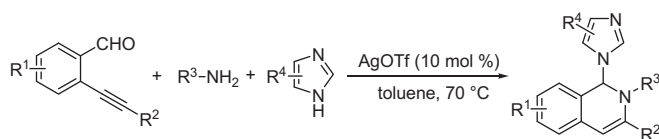
Production and degradation mechanism of theacitrin C, a black tea pigment derived from epigallocatechin-3-O-gallate via a bicyclo[3.2.1]octane-type intermediate

Yosuke Matsuo, Yan Li, Sayaka Watarumi, Takashi Tanaka*, Isao Kouno



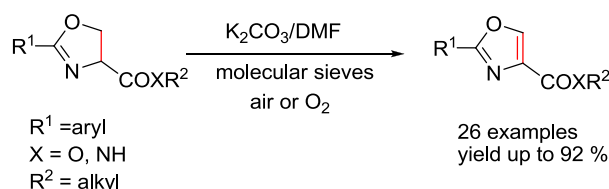
Library construction of 1-(1H-imidazol-1-yl)-1,2-dihydroisoquinolines via three-component reaction of 2-alkynylbenzaldehyde, amine, and imidazole

Honglei Lou, Shengqing Ye, Jianfeng Zhang*, Jie Wu*



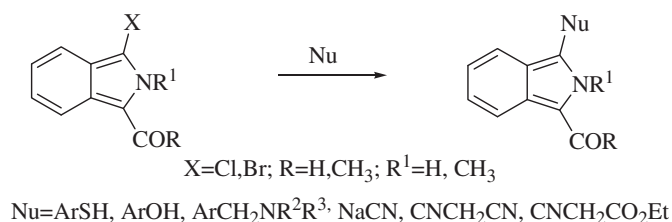
Environmental-benign oxidation of 2-oxazolines to oxazoles by dioxygen as the sole oxidant

Yue Huang, Lijun Ni, Haifeng Gan, Yu He, Jinyi Xu, Xiaoming Wu, Hequan Yao*



Nucleophilic substitutions in the isoindole series as a valuable tool to synthesize derivatives with antitumor activity

Patrizia Diana*, Annamaria Martorana, Paola Barraja, Alessandra Montalbano, Anna Carbone, Girolamo Cirrincione



pp 2051–2059

pp 2060–2065

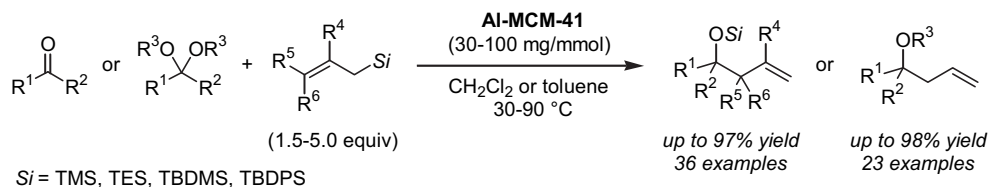
pp 2066–2071

pp 2072–2080

Mesoporous aluminosilicate-catalyzed allylation of carbonyl compounds and acetals

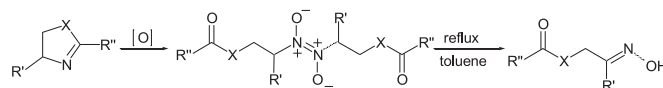
pp 2081–2089

Suguru Ito, Akira Hayashi, Hirotomo Komai, Hitoshi Yamaguchi, Yoshihiro Kubota, Masatoshi Asami*

**Azodioxy-carbonyl compounds by oxidation of cyclic imines with *m*-CPBA**

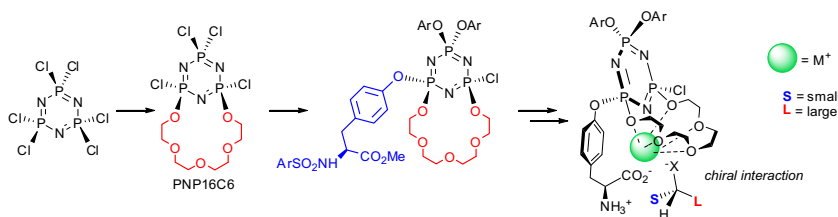
pp 2090–2095

Serena Perrone, Tullio Pilati, Francesca Rosato, Antonio Salomone, Valeria Videtta, Luigino Troisi*

**Selective O-functionalization of phenolic α -amino acids with crown ethers bearing cyclophosphazene sub-units**

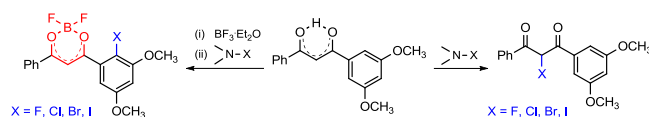
pp 2096–2102

Michele Penso*, Angelamaria Maia, Vittoria Lupi, Giovanni Tricarico

**Highly regioselective halogenation of 1-phenyl-3-(3,5-dimethoxyphenyl)-propane-1,3-dione**

pp 2103–2109

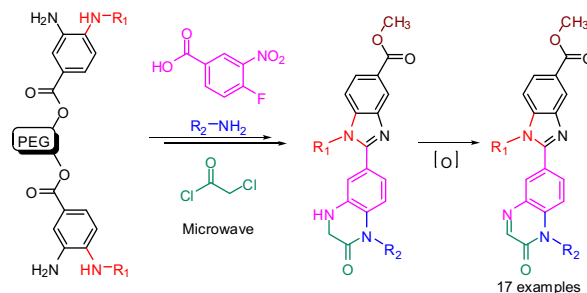
Petra Galer, Berta Košmrlj, Boris Šket*



Microwave assisted straightforward synthetic method for benzimidazole linked quinoxalines on soluble polymer support

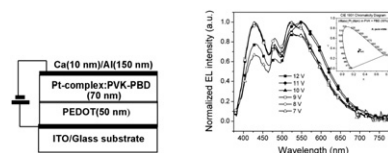
pp 2110–2117

Cheng-Ting Chou, Gorakh S. Yellol, Wong-Jin Chang, Mei-Lian Sun*, Chung-Ming Sun*

**White emission from dinuclear cyclometalated platinum(II) complex in single-emitting layer PLEDs**

pp 2118–2124

Yafei Wang, Xianping Deng, Yu Liu*, Meijun Ni, Ming Liu, Hua Tan, Xiaoshuang Li, Weiguo Zhu*, Yong Cao*

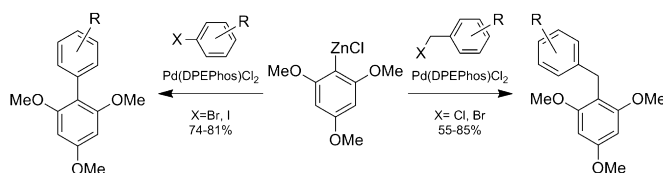


Stable white emissions from the single (dfppy)₂Pt₂(dipic)-doped devices were exhibited, which comprise mono-molecular blue emission and its excimers emission.

**Pd(DPEPhos)Cl₂-catalyzed Negishi cross-couplings for the formation of biaryl and diarylmethane phloroglucinol adducts**

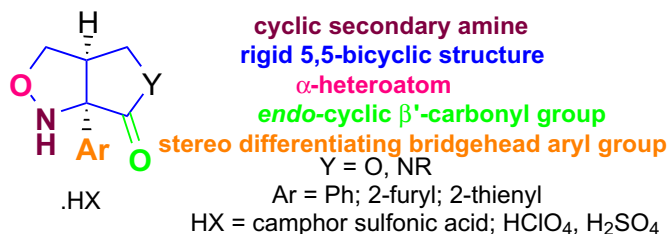
pp 2125–2131

Eric G. Dennis, David W. Jeffery, Michael V. Perkins, Paul A. Smith*

**NH-Isioxazolo-bicycles; new molecular scaffolds for organocatalysis**

pp 2132–2138

Linda Doyle, Frances Heaney*



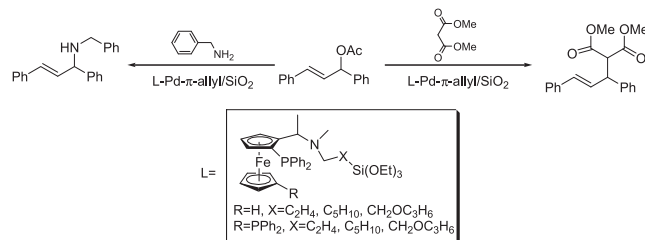
5,5-Bicyclic isoxazolidines, together with an acid co-catalyst, effectively promote the Diels–Alder reaction; the observed modest enantioselectivity is a feature of the organic core and is independent of the choice of co-catalyst.



Ugi amine-derived *P,N*- and *P,P*-ligands with *N*-alkyltriethoxysilyl tethers: synthesis and evaluation of mesoporous silica-supported Pd complexes in asymmetric allylic substitution reactions

pp 2139–2148

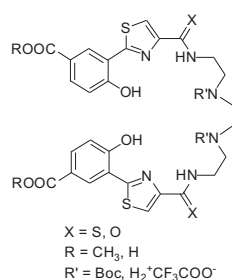
Roman G. Kultyshev, Akira Miyazawa*



Synthesis of gemini triethylene-tetramine bridged bis-tridentate iron(III) chelators

pp 2149–2154

David Rodriguez-Lucena, Isabelle J. Schalk, Gaëtan L.A. Mislin*



*Corresponding author

Supplementary data available via ScienceDirect



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