



Tetrahedron Vol. 67, Issue 44, 2011

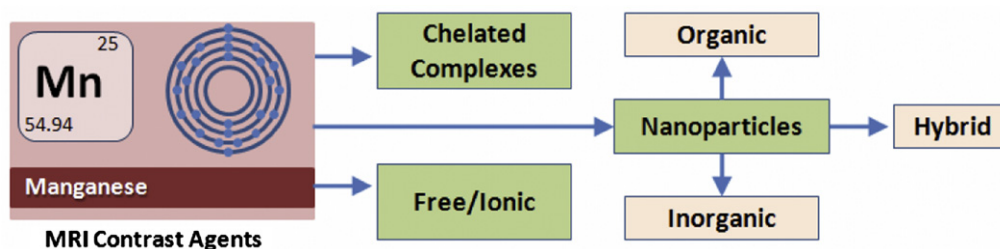
Contents

REPORT

Manganese-based MRI contrast agents: past, present, and future

pp 8431–8444

Dipanjan Pan*, Anne H. Schmieder, Samuel A. Wickline, Gregory M. Lanza

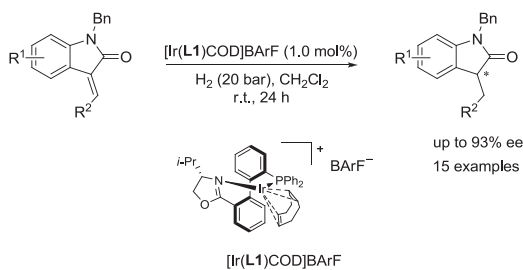


ARTICLES

Iridium-catalyzed asymmetric hydrogenation of 3-substituted unsaturated oxindoles to prepare C3-mono substituted oxindoles

pp 8445–8450

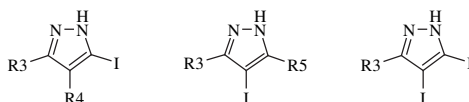
Yuanyuan Liu, Dongmei Yao, Kun Li, Fengtao Tian, Fang Xie, Wanbin Zhang*



Simple preparations of 4 and 5-iodinated pyrazoles as useful building blocks

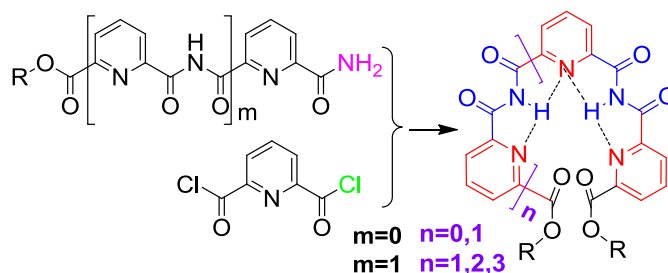
pp 8451–8457

Sandrine Guillou, Frédéric J. Bonhomme, Mikhail S. Ermolenko, Yves L. Janin*

R3 = OEt, CF₃; R4 = Me, Ph, Cl, CN, CO₂Et; R5 = H, CF₃, OEt, Ph**Synthesis, crystal structure, and different local conformations of pyridine–imide oligomers**

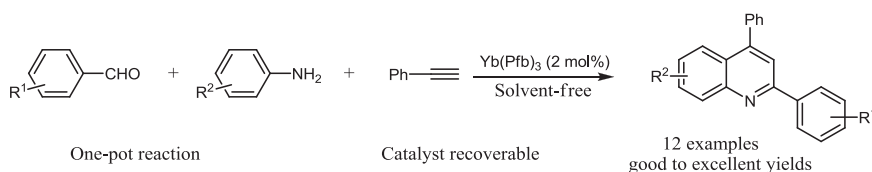
pp 8458–8464

Hengheng Zhu, Weiwei He, Chuanlang Zhan*, Xiao Li, Zisheng Guan, Fengqi Guo, Jiannian Yao*

**Ytterbium pentafluorobenzoate as a novel fluoruous Lewis acid catalyst in the synthesis of 2,4-disubstituted quinolines**

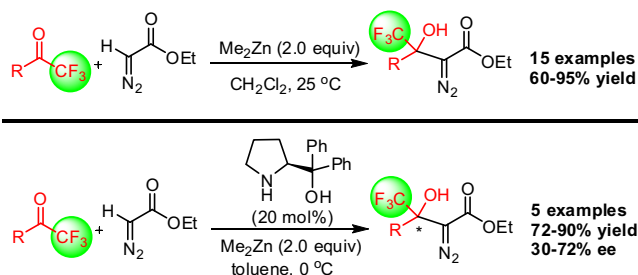
pp 8465–8469

Jun Tang, Limin Wang*, Dan Mao, Wenbo Wang, Liang Zhang, Shengying Wu, Yongshu Xie

**Direct aldol condensation reaction of ethyl diazoacetate with trifluoromethyl ketones**

pp 8470–8476

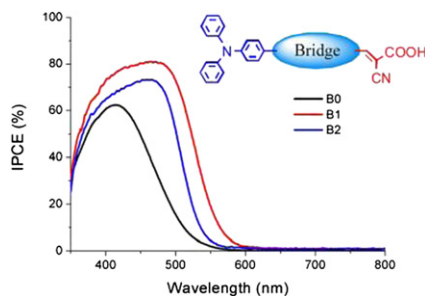
Han-Feng Cui, Lian Wang, Li-Jun Yang, Jing Nie, Yan Zheng, Jun-An Ma*



Fluorenylvinylenes bridged triphenylamine-based dyes with enhanced performance in dye-sensitized solar cells

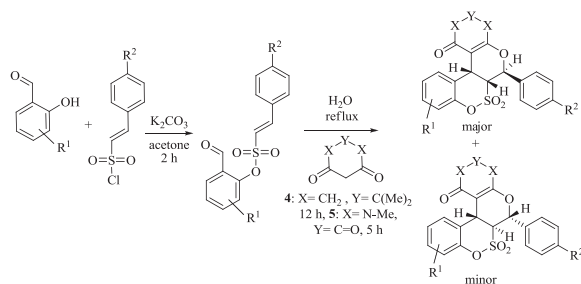
pp 8477–8483

Huipeng Zhou, Pengchong Xue, Yuan Zhang, Xin Zhao, Junhui Jia, Xiaofei Zhang, Xingliang Liu, Ran Lu*

**Efficient access to novel hexahydro-chromene and tetrahydro-pyrano[2,3-d]pyrimidine-annulated benzo- δ -sultones via a domino Knöevenagel-hetero-Diels–Alder reaction in water**

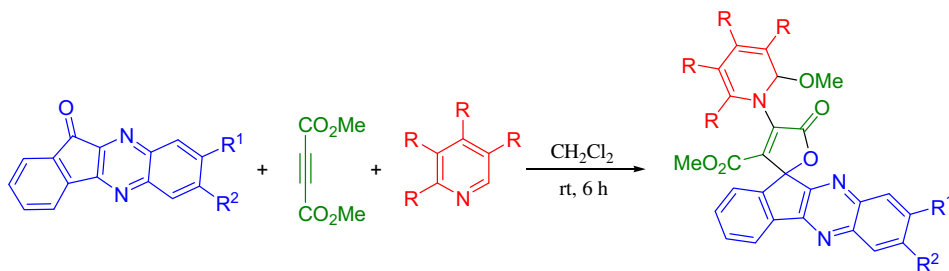
pp 8484–8491

Mehdi Ghandi*, Elham Mohammadimehr, Masoud Sadeghzadeh, Abolfazl Hasani Bozcheloei

**One-pot three-component synthesis of functionalized spirolactones by means of reaction between aromatic ketones, dimethyl acetylenedicarboxylate, and *N*-heterocycles**

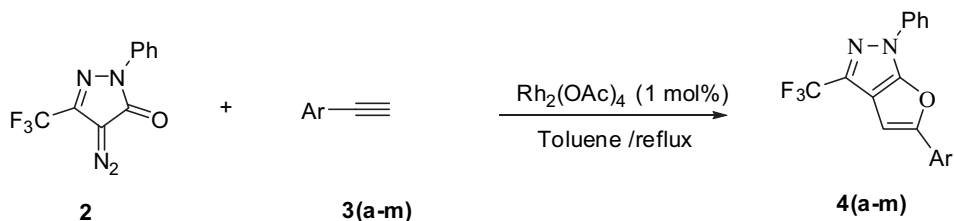
pp 8492–8495

Malek Taher Maghsoodlou*, Sayyed Mostafa Habibi-Khorassani, Abbas Moradi, Nourallah Hazeri, Amir Davodi, Seyed Sajad Sajadikhah

**Facile synthesis of novel CF_3 -substituted ring-fused furo[2,3-c]pyrazoles through $\text{Rh}_2(\text{OAc})_4$ catalyzed [3+2] cycloaddition of 4-diazo-1-phenyl-3-(trifluoromethyl)-1*H*-pyrazol-5(4*H*)-one with aromatic alkynes**

pp 8496–8501

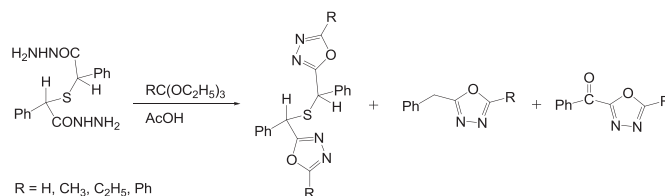
Zhenhua Zhang, Jianwei Han, Shizheng Zhu*

13 examples
up to 97% yield

The synthesis of bis(1,3,4-oxadiazol-2-yl-phenylmethyl) sulfides and other related 1,3,4-oxadiazoles from 1,1'-diphenylthiodiacetic acid dihydrazide and triethyl *ortho*esters

pp 8502–8508

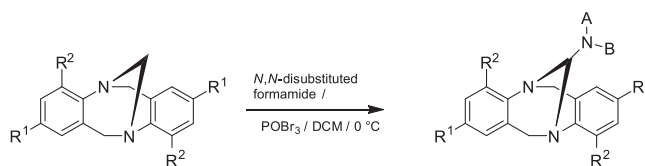
Agnieszka Kudelko



Reaction of Tröger's base analogues with Vilsmeier reagents

pp 8509–8514

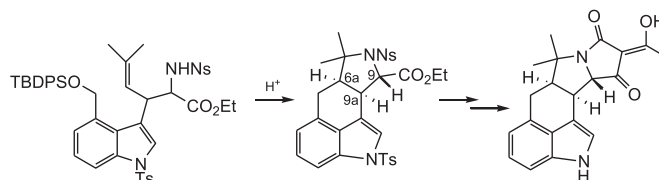
Qasim M. Malik, Andrew B. Mahon, Donald C. Craig, Andrew C. Try*



A total synthesis of (±)- α -cyclopiazonic acid using a cationic cascade as a key step

pp 8515–8528

Charlotte M. Griffiths-Jones (née Haskins), David W. Knight*

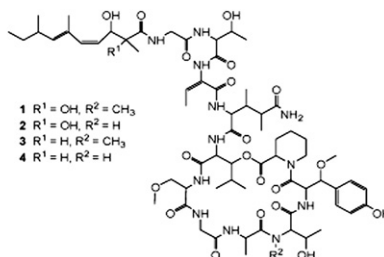


The indole alkaloid -cyclopiazonic acid has been synthesised by a route which features at its core an acid-catalysed cationic cascade cyclisation terminated by a sulfonamide group.

Papuamides E and F, cytotoxic depsipeptides from the marine sponge *Melophlus* sp.

pp 8529–8531

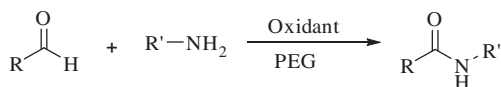
Pritesh Prasad*, William Aalbersberg, Klaus-D. Feussner, Ryan M. Van Wagoner



Metal-free synthesis of amides by oxidative amidation of aldehydes with amines in PEG/oxidant system

pp 8532–8535

Jun Liang, Jing Lv, Zhi-cai Shang*

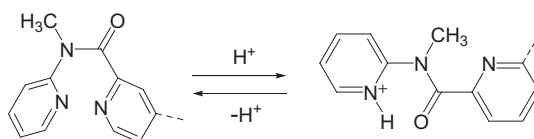


R, R'=Alkyl, Aryl

**Acid-induced conformational alteration of cis-preferential aromatic amides bearing *N*-methyl-*N*-(2-pyridyl) moiety**

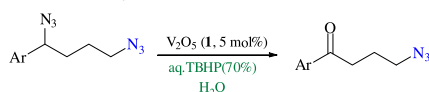
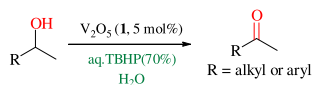
pp 8536–8543

Iwao Okamoto*, Masayuki Terashima, Hyuma Masu, Mayumi Nabeta, Kaori Ono, Nobuyoshi Morita, Kosuke Katagiri, Isao Azumaya, Osamu Tamura

**Efficient synthesis of carbonyl compounds: oxidation of azides and alcohols catalyzed by vanadium pentoxide in water using *tert*-butylhydroperoxide**

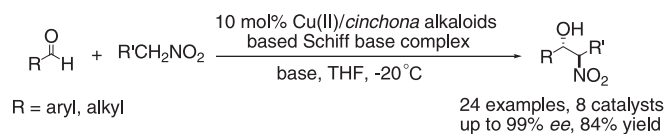
pp 8544–8551

Kaliyamoorthy Alagiri, Kandikere Ramaiah Prabhu*

Vanadium catalyzed oxidation of azides**Vanadium catalyzed oxidation of alcohols****Novel Schiff base ligands derived from *Cinchona* alkaloids for Cu(II)-catalyzed asymmetric Henry reaction**

pp 8552–8558

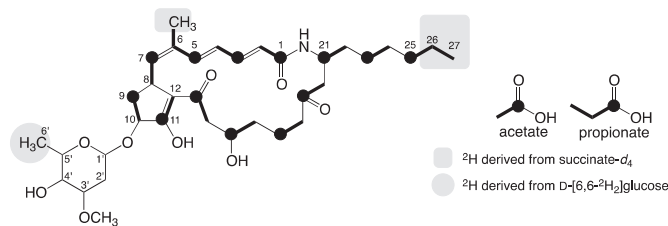
Yu Wei, Lin Yao, Bangle Zhang, Wei He*, Shengyong Zhang



Biosynthetic pathway of macrolactam polyketide antibiotic cremimycin

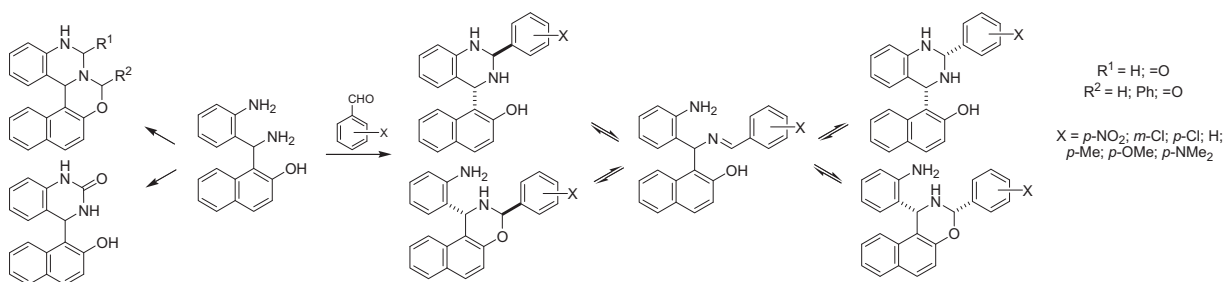
pp 8559–8563

Keita Amagai, Fumitaka Kudo, Tadashi Eguchi*

**Synthesis and conformational analysis of new naphth[1,2-e][1,3]oxazino[3,4-c]quinazoline derivatives**

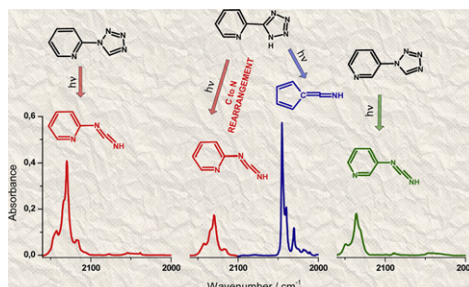
pp 8564–8571

Renáta Csütörtöki, István Szatmári, Andreas Koch, Matthias Heydenreich, Erich Kleinpeter*, Ferenc Fülöp*

**Conformational properties and photochemistry of tetrazolypyridines in low temperature matrices. Spectroscopic evidence for the photochemical carbon-to-nitrogen rearrangement**

pp 8572–8582

M. Pagacz-Kostrzewa, J. Krupa, A. Olbert-Majkut, M. Podruczna, R. Bronisz, M. Wierzejewska*

**Corrigendum**

p 8583

*Corresponding author

 Supplementary data available via ScienceDirect



Full text of this journal is available, on-line from **ScienceDirect**. Visit www.sciencedirect.com for more information.

Abstracted/indexed in: AGRICOLA, Beilstein, BIOSIS Previews, CAB Abstracts, Chemical Abstracts, Current Contents: Life Sciences, Current Contents: Physical, Chemical and Earth Sciences, Current Contents Search, Derwent Drug File, Ei compendex, EMBASE/Excerpta Medica, Medline, PASCAL, Research Alert, Science Citation Index, SciSearch. Also covered in the abstract and citation database SCOPUS®. Full text available on ScienceDirect®



ISSN 0040-4020