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Tetrahedron Letters Vol. 54, Issue 32, 2013

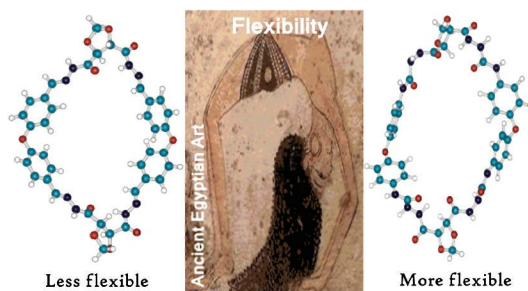
Contents

COMMUNICATIONS

Synthesis of novel chiral *tetra*-(hydrazinecarboxamide) cyclophane macrocycles

pp 4139–4142

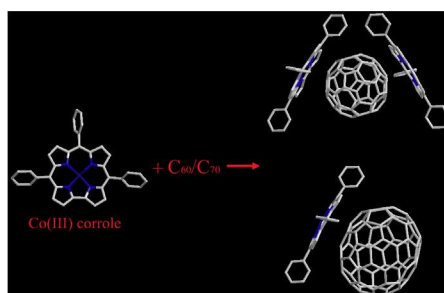
Hany F. Nour, Agnieszka Golon, Nikolai Kuhnert*



Syntheses of corrole derivatives and their supramolecular interactions with fullerenes in solution and the solid state

pp 4143–4147

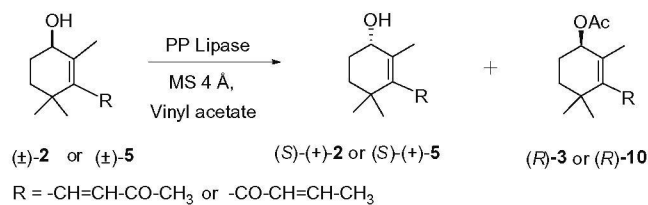
Chen Chen, Yi-Zhou Zhu, Qiao-Jun Fan, Hai-Bin Song, Jian-Yu Zheng*



Facile lipase catalysed syntheses of (*S*)-(+)-4-hydroxy- β -ionone and (*S*)-(+)-4-hydroxy- β -damascone: chiral flavorants and synthons

pp 4148–4149

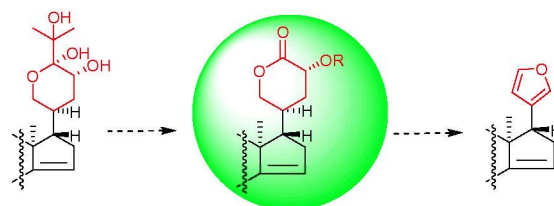
Gauri P. More, Sujata V. Bhat*



Dictamins A–C, three unprecedented apotirucallane-type trinortriterpenoids from *Dictamnus dasycarpus*

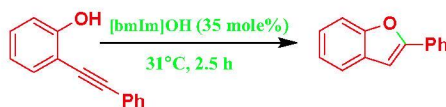
pp 4150–4153

Hong-Yu Chen, Zhen-Yi Hu, Chun-Ping Tang, Ronald J. Quinn, Yunjiang Feng, Sheng Yao*, Yang Ye*

**Dictamins A–C**Critical C₂ side chain intermediates
from C₈ protolimonoids to C₄ limonoids.**Recyclable [bmIm]OH promoted one-pot heterocyclization: synthesis of substituted benzofurans**

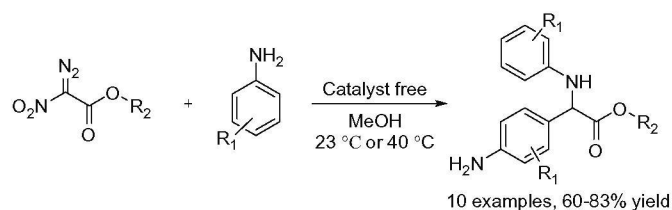
pp 4154–4158

I.R. Siddiqui*, Malik Abdul Waseem, Shayna Shamim, Shireen, Arjita Srivastava, Anjali Srivastava

**A catalyst-free N–H insertion/Mannich-type reaction cascade of α -nitrodiazoesters**

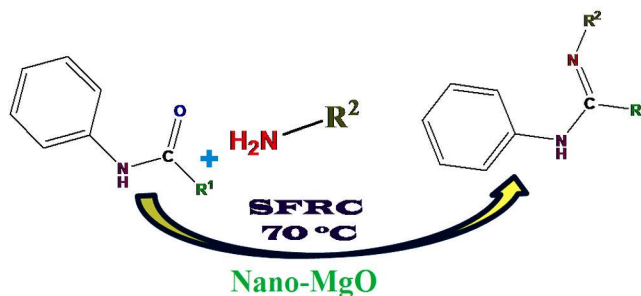
pp 4159–4163

Ting Yang, Hao Zhuang, Xichen Lin, Jia-Ning Xiang, John D. Elliott, Lianghui Liu, Feng Ren*

**Highly active nano-MgO catalyzed, mild, and efficient synthesis of amidines via electrophilic activation of amides**

pp 4164–4166

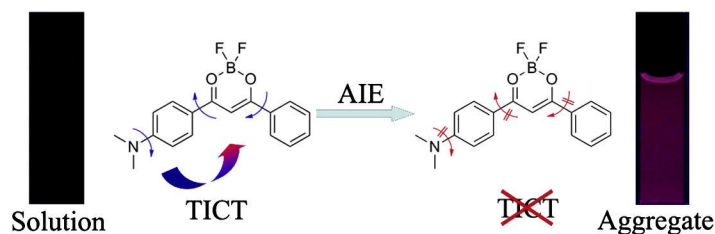
Vijay Kumar Das, Ashim Jyoti Thakur*



A simple approach to aggregation-induced emission in difluoroboron dibenzoylmethane derivatives

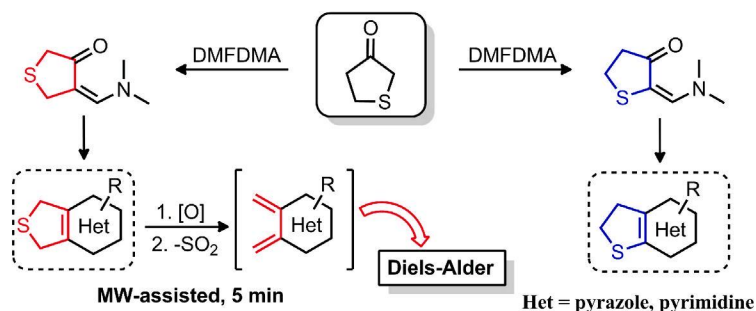
pp 4167–4170

Junyi Hu, Zhen He, Zhi Wang, Xiaoyu Li, Jingsong You, Ge Gao*

**Access to new sulfolene derivatives via formylation of thiolan-3-one**

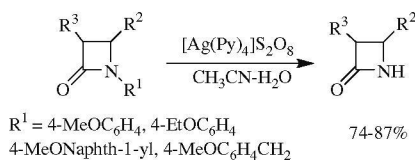
pp 4171–4173

Olga Gordivska, Dmytro Listunov, Kirill Popov*, Tatyana Volovnenko, Yulian Volovenko

**Oxidative N-deprotection of 2-azetidinones using silver(II)-persulfate complexes as a twin oxidant/co-oxidant**

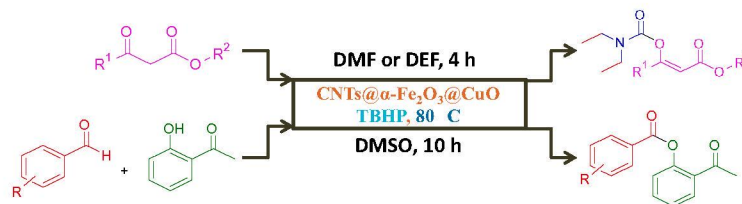
pp 4174–4177

Maaroof Zarei*

**CuO nanoparticles supported on α -Fe₂O₃-modified CNTs: a magnetically separable catalyst for oxidative C–O coupling of formamides with 1,3-dicarbonyl compounds**

pp 4178–4180

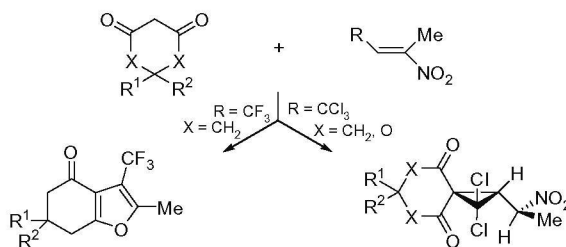
Dariush Saberi, Akbar Heydari*



Synthesis of β -(trifluoromethyl)furans and spiro-*gem*-dichlorocyclopropanes from cyclic 1,3-dicarbonyl compounds and α -(trihaloethylidene)nitroethanes

pp 4181–4184

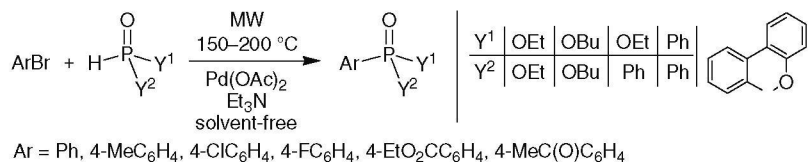
Alexey Yu. Barkov, Vladislav Yu. Korotaev, Vyacheslav Ya. Sosnovskikh*



P-ligand-free, microwave-assisted variation of the Hirao reaction under solvent-free conditions; the P–C coupling reaction of $>P(O)H$ species and bromoarenes

pp 4185–4188

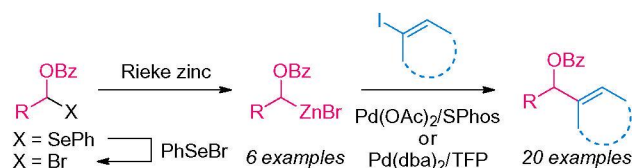
Erzsébet Jablonkai, György Keglevich*



Preparation and palladium-mediated cross-coupling of α -benzoyloxyalkylzinc bromides

pp 4189–4192

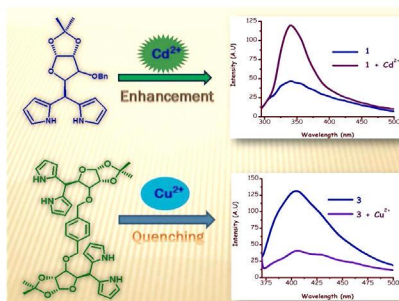
Komei Sakata, Daisuke Urabe, Masayuki Inoue*



Glycosyl based *meso*-substituted dipyrromethanes as fluorescent probes for Cd^{2+}/Cu^{2+} ions

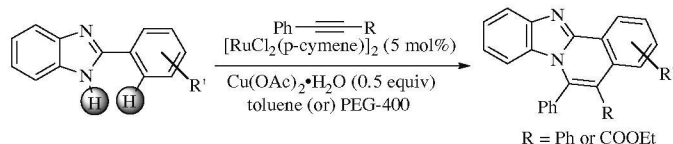
pp 4193–4197

Arnab Biswas, Rampal Pandey, Divya Kushwaha, Mohammad Shahid, Vinod Kumar Tiwari, Arvind Misra, Daya Shankar Pandey*



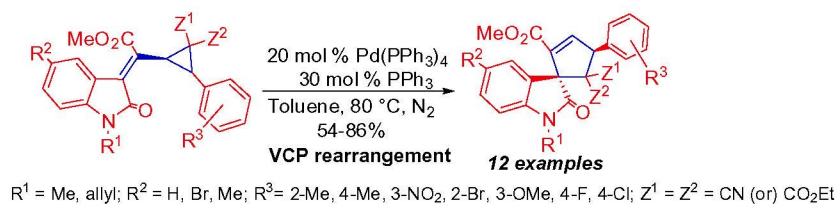
Ruthenium-catalyzed benzimidazoisoquinoline synthesis via oxidative coupling of 2-arylbenzimidazoles with alkynes pp 4198–4201

Nerella Kavitha, Genji Sukumar, Vemula Praveen Kumar, Prathama S. Mainkar, Srivari Chandrasekhar*

**A facile and efficient synthesis of 3-spirocyclopentene-2-oxindoles via palladium mediated vinylcyclopropane–cyclopentene rearrangement of oxindole derived vinylcyclopropanes**

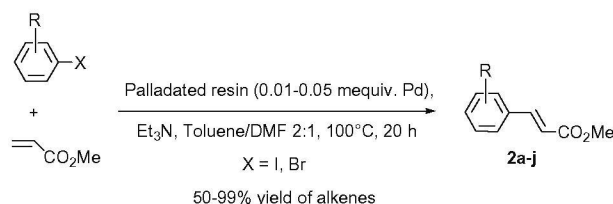
pp 4202–4206

Kandapalam Arun Prasath Lingam, Ponnusamy Shanmugam*

**Mizoroki–Heck reactions of methyl acrylate in presence of a palladated rasta resin**

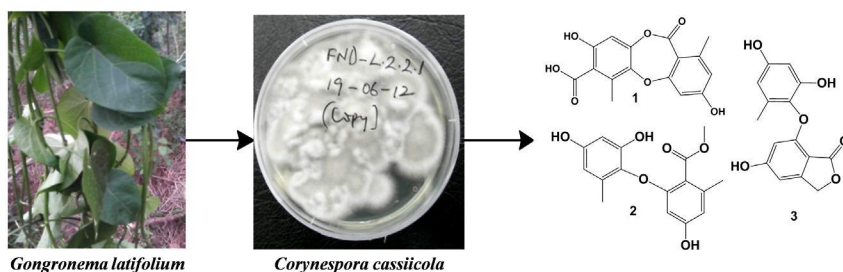
pp 4207–4209

Antoine Derible, Jean-Michel Becht*, Claude Le Drian*

**Depsidone and diaryl ether derivatives from the fungus *Corynespora cassiicola*, an endophyte of *Gongronema latifolium***

pp 4210–4214

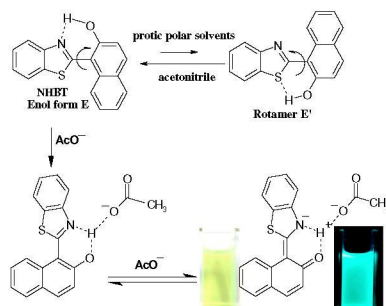
Festus Basden C. Okoye, Su Lu, Chukwuemeka S. Nworu, Charles O. Esimone, Peter Proksch, Ahmed Chadli, Abdessamad Debbab*



Competitive intra- and inter-molecular proton transfer in hydroxynaphthyl benzothiazole: selective ratiometric sensing of acetate

pp 4215–4220

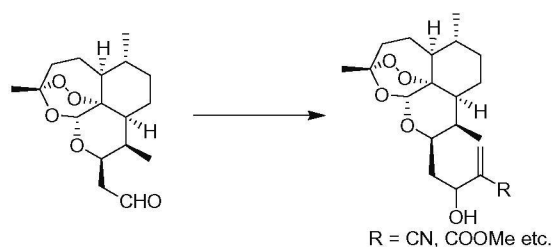
Shyamaprosad Goswami*, Avijit Kumar Das, Krishnendu Aich, Abhishek Manna



Synthesis of a novel series of highly functionalized Baylis–Hillman adducts of artemisinin with potent anticancer activity

pp 4221–4224

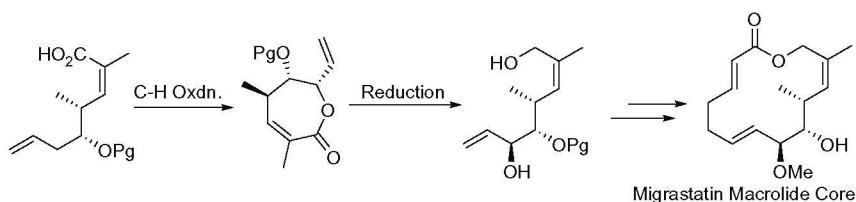
Abhishek Goswami, Partha P. Saikia, Bishwajit Saikia, Nabin C. Barua*, Ajit K. Saxena, Nitasha Suri, Madhunika Sharma, Gakul Baishya



Stereoselective formal synthesis of macrolidecore of migrastatin using late stage C–H oxidation

pp 4225–4227

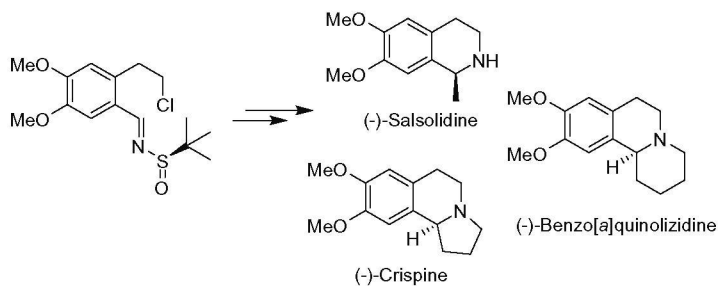
Narendar Reddy Gade, Javed Iqbal*



A convergent and stereoselective total synthesis of (–)-crispine A, (–)-benzo[a]quinolizidine and (–)-salsolidine

pp 4228–4231

N. Siva Senkar Reddy, B. Jagan Mohan Reddy, B. V. Subba Reddy*



pp 4232-4236

Chemical reaction scheme showing the synthesis of the macrocyclic ligand **1** (a 18-crown-6 derivative with a quinoxaline moiety) reacting with Al^{3+} ions (represented by pink spheres) to form the macrocyclic complex **2**. The reaction is shown with a test tube containing a yellow solution on the left and a test tube containing a colorless solution on the right.



pp 4237-4240

(a) one of many possible conformations

(b) preorganized



pp 4241-4244

Chemical reaction scheme showing the synthesis of a dendritic fullerene derivative. The reactant is a tri-silyl ether with a repeating unit of $\text{EtO}-\text{C}(=\text{O})-\text{CH}_2-\text{C}(=\text{O})-\text{O}-(\text{CH}_2)_n-\text{O}-\text{SiR}_3$, where $n = 2, 3, \text{ or } 4$. The product is a C_{60} fullerene cage with three dendritic arms attached, each containing a hydroxyl group and a $(\text{CH}_2)_n$ chain.

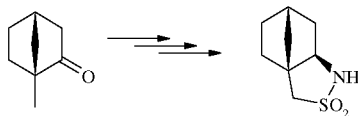


pp 4245-4246

Influence of norbornanone substituents on both the Wagner–Meerwein skeletal rearrangements under sulfonation conditions and the diastereoselectivity of the corresponding *N,N*-bis-fumaroyl sultams in uncatalyzed Diels–Alder cycloadditions to cyclopenta-1,3-diene

pp 4247–4249

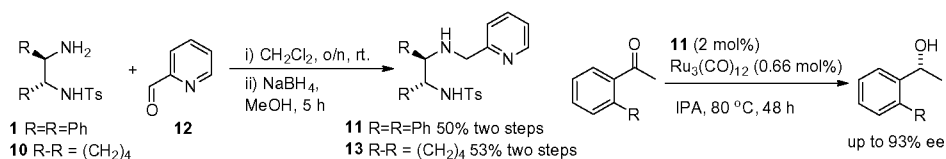
Anna Piątek*, Christian Chapuis*



Use of tridentate TsDPEN/pyridine ligands in ruthenium-catalysed asymmetric reduction of ketones

pp 4250–4253

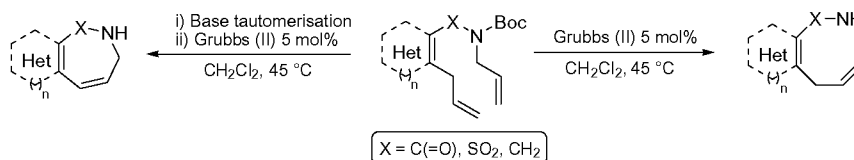
Moftah O. Darwish, Alistair Wallace, Guy J. Clarkson, Martin Wills*



Rapid entry into heterocycle-fused benzylic azepines and azocines via directed metallation/ring-closing metathesis

pp 4254–4258

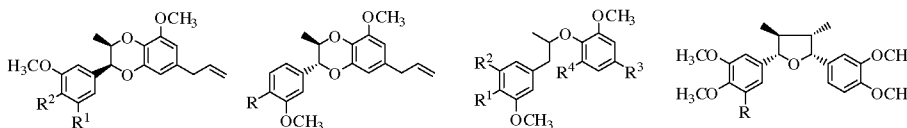
Thomas A. Moss



New neolignans and a lignan from *Miliusa fragrans*, and their anti-herpetic and cytotoxic activities

pp 4259–4263

Kanokporn Sawasdee, Tanawat Chaowasku, Vimolmas Lipipun, Thi-Hanh Dufat, Sylvie Michel, Kittisak Likhitwitayawuid*



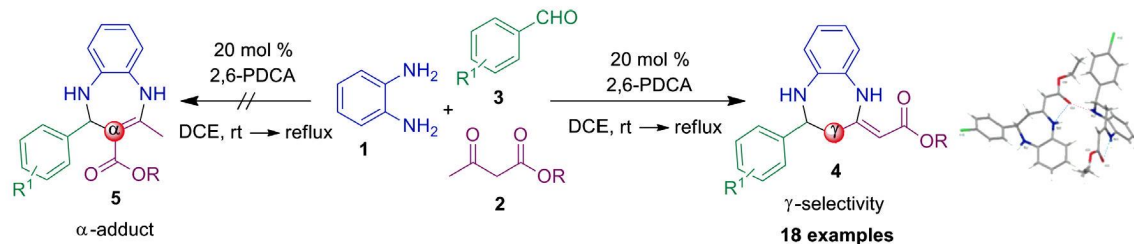
Seven new neolignans and a new lignan were isolated from the leaves and the stems of *Miliusa fragrans*, along with nine known polyphenolic compounds. Their structures were established through analysis of spectroscopic data, including ¹H and ¹³C NMR, COSY, NOESY, HSQC, HMBC, and HRMS.



2,6-Pyridinedicarboxylic acid as organocatalyst for the synthesis of 1,5-benzodiazepines through one-pot reaction

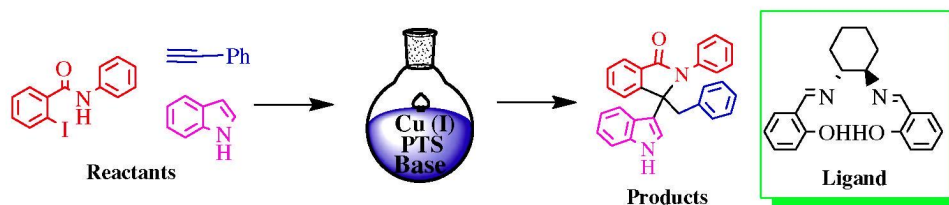
pp 4264–4272

Mohan Lal, R. Sidick Basha, Satavisha Sarkar, Abu T. Khan*

**Efficient synthesis of 3-benzyl-3-(indol-3-yl)-2-phenyl-2,3-dihydroisoindolinone derivatives via a simple and convenient MCR in aqueous micellar system**

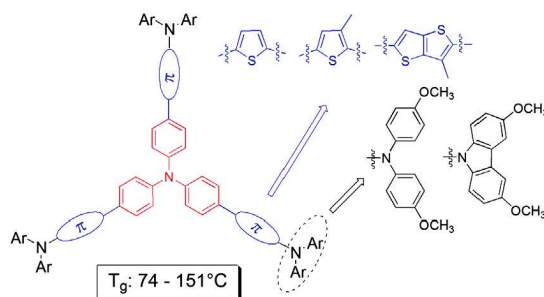
pp 4273–4276

Swarbhanu Sarkar, Rammyani Pal, Asish Kumar Sen*

**Carbazol-*N*-yl and diphenylamino end-capped triphenylamine-based molecular glasses: synthesis, thermal, and optical properties**

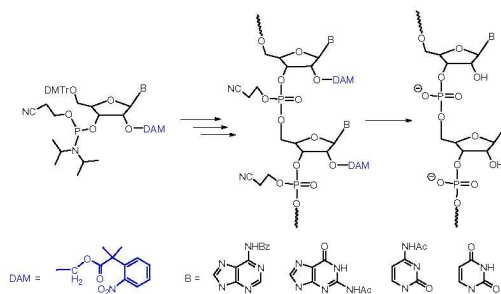
pp 4277–4280

Thanh-Tuan Bui, Layla Beouch, Xavier Sallenave, Fabrice Goubard*

**2'-O-[[2,2-dimethyl-2-(2-nitrophenyl) acetyl] oxy] methyl protecting group for RNA synthesis**

pp 4281–4284

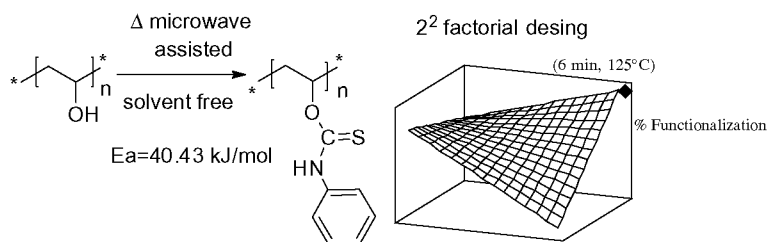
Ke Chen, Wei Wang, Dezhong Qu, Haoting Zhao, Wei Xiong, Caijie Luo, Menghui Yin, Biliang Zhang*



Experimental design of the microwave assisted synthesis of the poly(vinyl phenylthionecarbamate)

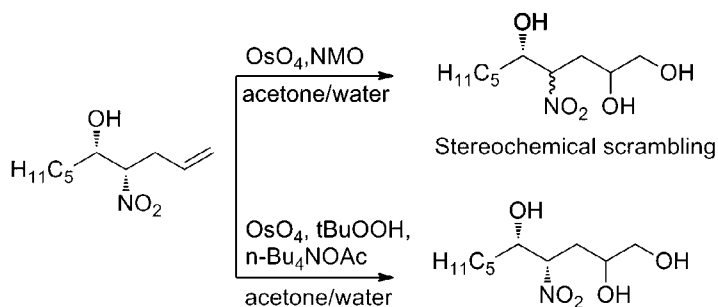
pp 4285–4288

Irais Gómez, Elena M. Otazo*, Francisco Prieto, Alfredo Guevara, José R. Villagómez

**Simplified synthesis of individual stereoisomers of the 4-hydroxynonanal adducts of deoxyguanosine**

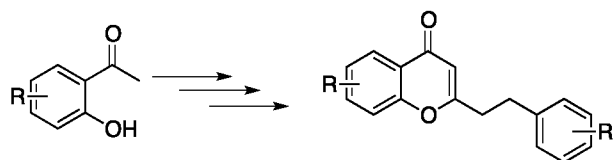
pp 4289–4291

Plamen P. Christov*, Edward K. Hawkins, Nathan R. Kett, Carmelo J. Rizzo

**An efficient procedure for the preparation of natural products bearing the 2-(2-phenylethyl)chromone skeleton**

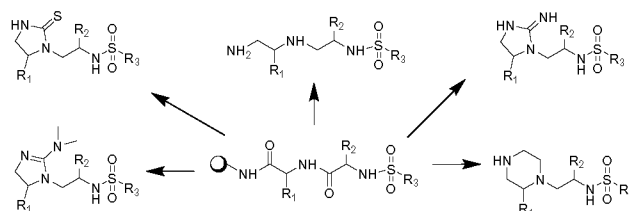
pp 4292–4295

Dwight A. Williams*, Cameron Smith, Yan Zhang*

**Libraries from libraries: a series of sulfonamide linked heterocycles derived from the same scaffold**

pp 4296–4299

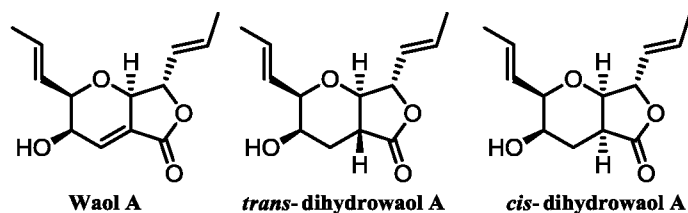
Ginamarie Debevec, Wenteng Chen, Yongping Yu, Richard A. Houghten, Marc A. Giulianotti*



Waal A, *trans*-dihydrowaal A, and *cis*-dihydrowaal A: polyketide-derived γ -lactones from a *Volutella* species

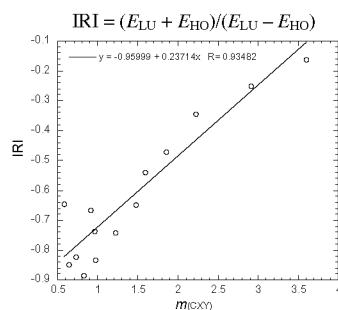
pp 4300–4302

Tamam El-Elimat, Mario Figueroa, Huzefa A. Raja, Audrey F. Adcock, David J. Kroll, Steven M. Swanson, Mansukh C. Wani, Cedric J. Pearce, Nicholas H. Oberlies*

**Carbenic philicity and the ‘intrinsic reactivity index’**

pp 4303–4305

Robert A. Moss*, Karsten Krogh-Jespersen*

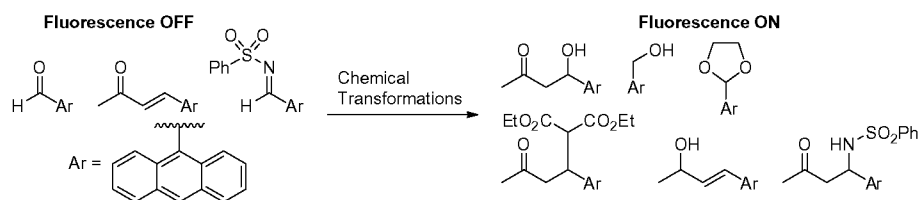


Intrinsic reactivity index (IRI) versus the carbene selectivity index (m_{CXY}) for 14 disubstituted singlet carbenes.

**Fluorogenic probes for chemical transformations: 9-anthracene derivatives for monitoring reaction progress by an increase in fluorescence**

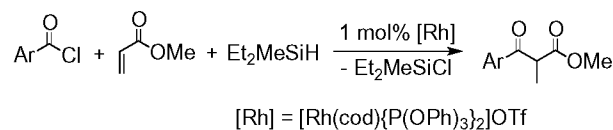
pp 4306–4308

Nobuyuki Mase*, Kunihiro Takabe, Fujie Tanaka*

**Rhodium-catalyzed hydroarylation of α,β -unsaturated esters using aryl chlorides and Et_2MeSiH**

pp 4309–4312

Takako Muraoka, Eiji Hiraiwa, Minami Abe, Keiji Ueno*



One-pot synthesis of N-heterocycles by tandem carbamoylation–oxidative bromolactamization of ω -alkenylmagnesium bromide

pp 4313–4315

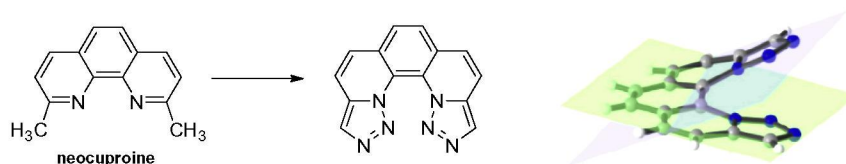
Yasutomo Yamamoto*, Yuji Takahama, Misa Shimizu, Ai Ohara, Akari Miyawaki, Kiyoshi Tomioka*



Synthesis and structural properties of hexaaza[5]helicene containing two [1,2,3]triazolo[1,5-a]pyridine moieties

pp 4316–4319

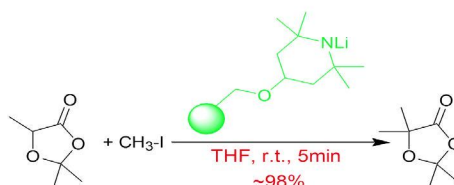
Rosa Adam, Rafael Ballesteros-Garrido, Oriol Vallcorba, Belén Abarca*, Rafael Ballesteros*, Frédéric R. Leroux, Françoise Colobert, José M. Amigó, Jordi Rius*



A cross-linked polystyrene supported hindered lithium amide as a deprotonation reagent for α -methylation of lactic acid

pp 4320–4323

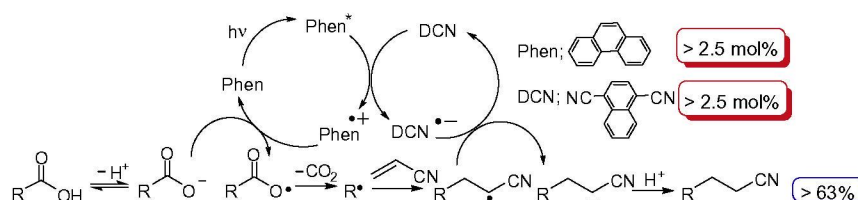
Kohtaro Watanabe, Yoshito Andou*, Yoshihito Shirai, Haruo Nishida



Radical addition to acrylonitrile via catalytic photochemical decarboxylation of aliphatic carboxylic acids

pp 4324–4326

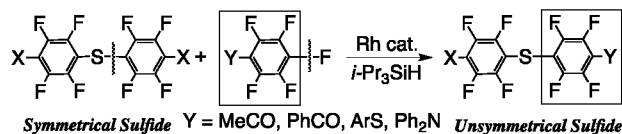
Yasuharu Yoshimi*, Sonoka Washida, Yoshiki Okita, Keisuke Nishikawa, Kousuke Maeda, Shota Hayashi, Toshio Morita



Synthesis of unsymmetrical polyfluorinated diaryl sulfides by rhodium-catalyzed aryl exchange reaction

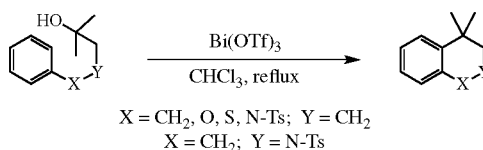
pp 4327–4329

Mieko Arisawa*, Takuya Ichikawa, Masahiko Yamaguchi*

**Friedel–Crafts cyclization of tertiary alcohols using bismuth(III) triflate**

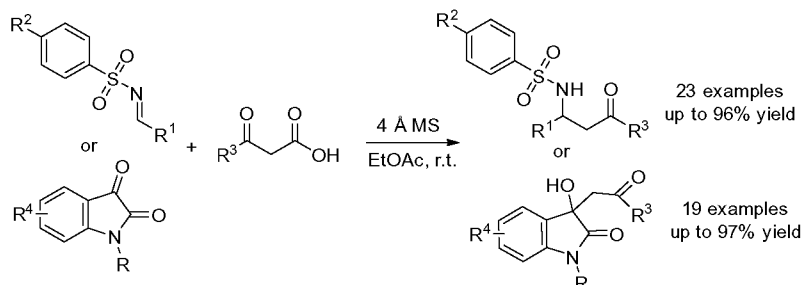
pp 4330–4332

Baskar Nammalwar, Richard A. Bunce*

**Molecular sieve mediated decarboxylative Mannich and aldol reactions of β -ketoacids**

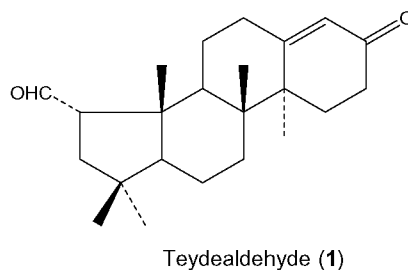
pp 4333–4336

Fangrui Zhong, Chunhui Jiang, Weijun Yao, Li-Wen Xu, Yixin Lu*

**Teydealdehyde, a C_{23} -terpenoid from transformed root cultures of *Nepeta teydea***

pp 4337–4338

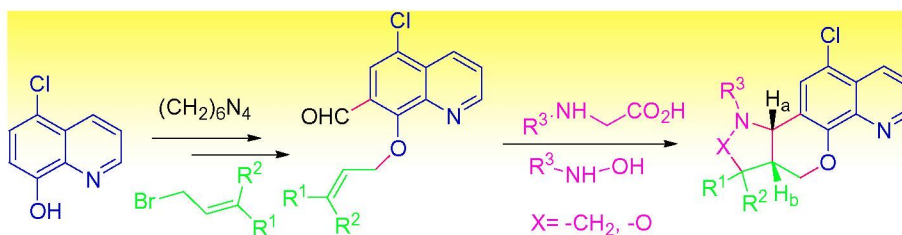
Braulio M. Fraga*, Carmen E. Díaz, Leonardo J. Amador



Synthesis of tetracyclic pyrrolidine/isoxazolidine fused pyrano[3,2-*h*]quinolines via intramolecular 1,3-dipolar cycloaddition in ionic liquid

pp 4339–4342

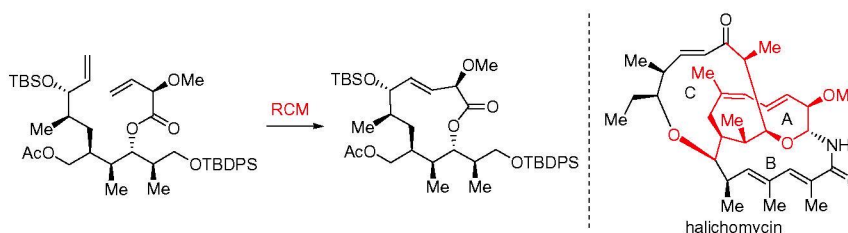
Abhijit Hazra*, Yogesh P. Bharitkar, Arindam Maity, Shyamal Mondal, Nirup B. Mondal



Construction of the A ring of halichomycin via a RCM strategy

pp 4343–4345

Shiyong Mao, Yanxing Jia*



*Corresponding author

Supplementary data available via SciVerse ScienceDirect

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