

Tetrahedron Letters Vol. 51, No. 29, 2010

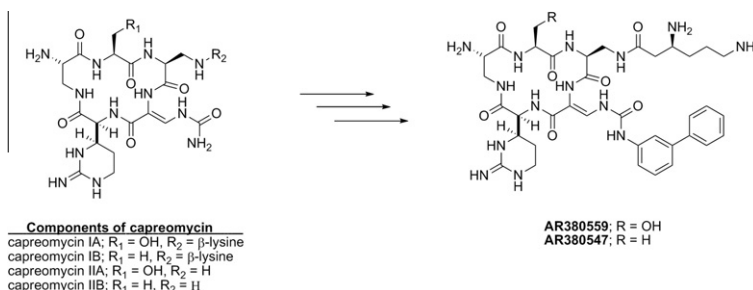
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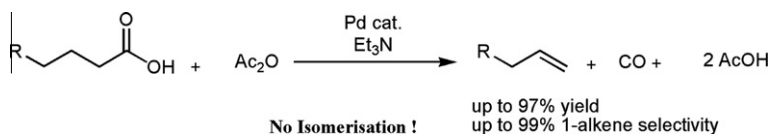
D. David Hennings*, Daniel J. Watson, Joe P. Lyssikatos, Andrew Allen



Selective preparation of terminal alkenes from aliphatic carboxylic acids by a palladium-catalysed decarbonylation–elimination reaction

pp 3712–3715

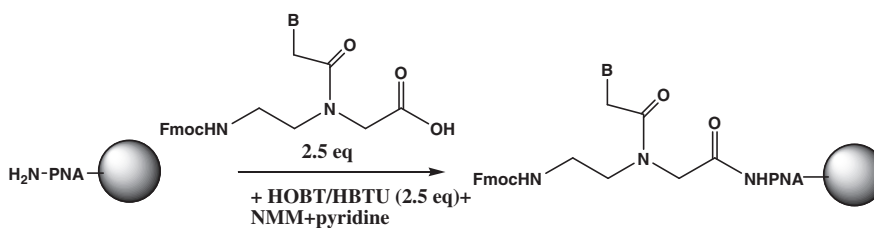
Jérôme Le Nôtre, Elinor L. Scott*, Maurice C. R. Franssen, Johan P. M. Sanders



Development of an efficient and low-cost protocol for the manual PNA synthesis by Fmoc chemistry

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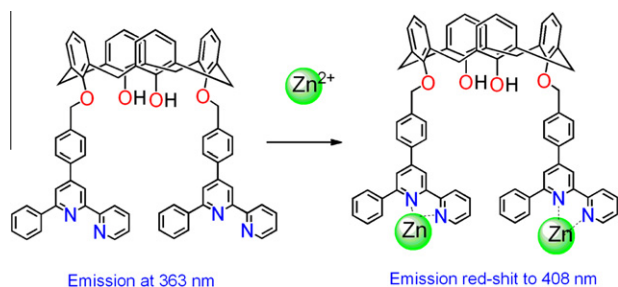
Concetta Avitabile, Loredana Moggio, Luca D. D'Andrea, Carlo Pedone, Alessandra Romanelli*



Novel 2,2'-bipyridine-modified calix[4]arenes: ratiometric fluorescent chemosensors for Zn²⁺ ion

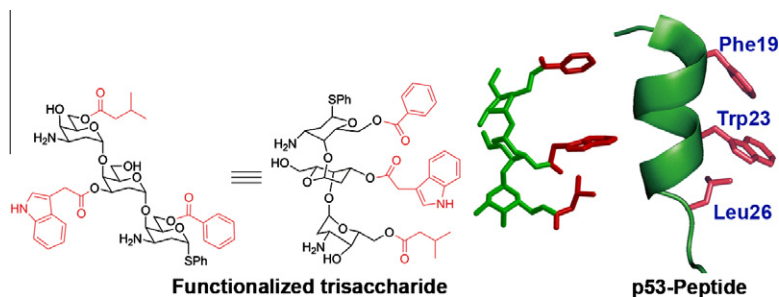
pp 3719–3723

Jun Feng Zhang, Sankarprasad Bhuniya, Young Hoon Lee, Changwan Bae, Joung Hae Lee*, Jong Seung Kim*

**Design and synthesis of functionalized trisaccharides as p53-peptide mimics**

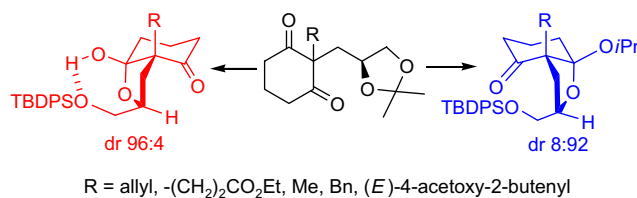
pp 3724–3727

Kaori Sakurai, Daniel Kahne*

We report here the design and synthesis of functionalized trisaccharides modeled after an α -helical 15-mer peptide region of p53 which binds to its cellular regulator MDM2.**Facile synthesis of asymmetric quaternary centers based on diastereoselective protection of the carbonyl group at the symmetrical position**

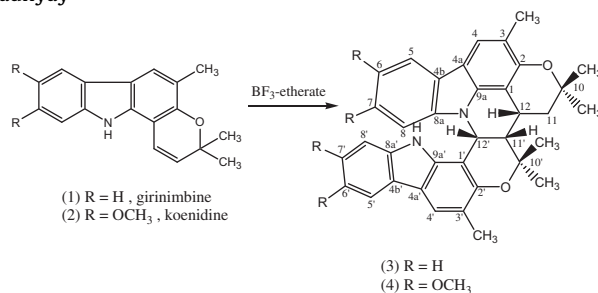
pp 3728–3731

Kou Hiroya*, Yusuke Ichihashi, Yoshihiro Suwa, Tetsuro Ikai, Kiyofumi Inamoto, Takayuki Doi

**One-pot synthesis of the naturally occurring dimeric carbazole alkaloid murrainbine and its analogue**

pp 3732–3735

Mumu Chakraborty, Sibabrata Mukhopadhyay*



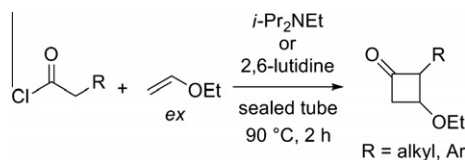
One-pot synthesis of murrainbine, a naturally occurring dimeric carbazole alkaloid and a new dimer of koenidine was described.



An efficient procedure for preparation of 2-monoalkyl or 2-monoaryl-3-ethoxycyclobutanones

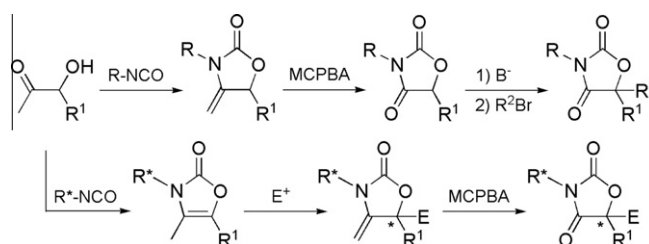
pp 3736–3737

Jun-ichi Matsuo*, Ryosuke Okuno, Kosuke Takeuchi, Mizuki Kawano, Hiroyuki Ishibashi

**Versatile synthesis of quaternary 1,3-oxazolidine-2,4-diones and their use in the preparation of α -hydroxyamides**

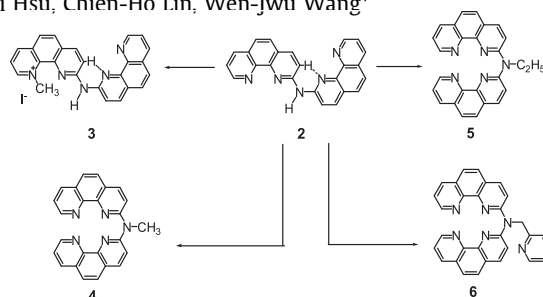
pp 3738–3742

Omar Merino, Blanca M. Santoyo, Luisa E. Montiel, Hugo A. Jiménez-Vázquez, L. Gerardo Zepeda, Joaquín Tamariz*

**Aza-bridged bis-1,10-phenanthroline acyclic derivatives: synthesis, structure, and regioselective alkylation**

pp 3743–3747

Hsien-Chang Kao, Chia-Jung Hsu, Che-Wei Hsu, Chien-Ho Lin, Wen-Jwu Wang*

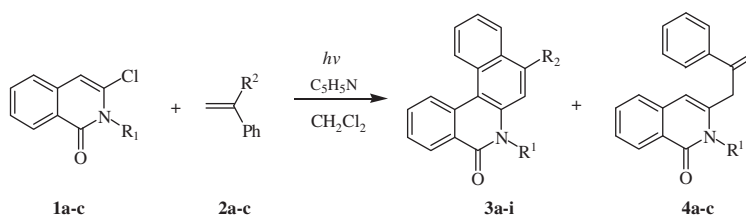


An efficient and regioselective method was developed to prepare the amino-substituted bis-1,10-phenanthroline derivatives and 1,10-phenanthroline-N-alkylated compounds. X-ray and NMR investigations reveal the *transoid* structure for **2**, where the unusual intramolecular CH...N hydrogen bond was shown.

**One-pot synthesis of benzo[a]phenanthridin-5-ones by photoinduced cycloaddition of 3-chloroquinolin-1-ones with styrenes**

pp 3748–3751

Bing Li, Bing Han, Zong-jun Shi, Yu-wei Ren, Shen-ci Lu, Wei Zhang*

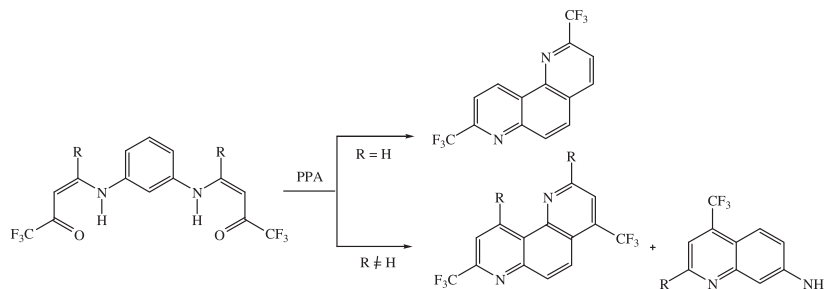


One-pot synthesis of benzo[a]phenanthridin-5-ones and benzo[k]phenanthridin-6-ones in fairly good yields was achieved by the photocycloaddition reactions of 3-chloroquinolin-1-ones and 3-chloroquinolin-2-ones with styrenes.



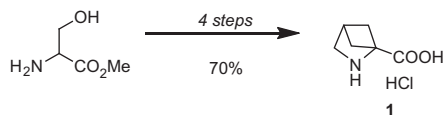
The unexpected cyclization routes of *N,N'*-bis(oxotrifluoroalkenyl)-1,3-phenylenediamines in polyphosphoric acid medium pp 3752–3755

Helio G. Bonacorso*, Rosália Andrighetto, Nilo Zanatta, Marcos A. P. Martins



Efficient preparation of 2,4-methanoproline pp 3756–3758

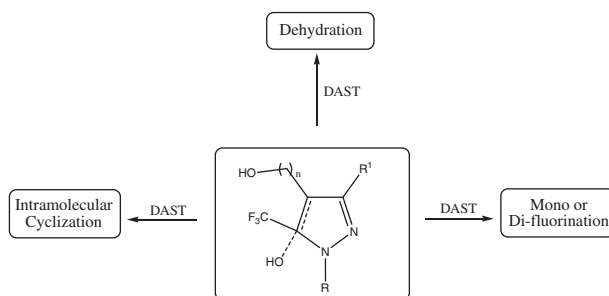
Jeffrey G. Varnes*, G. Scott Lehr, Gary L. Moore, James M. Hulsizer, Jeffrey S. Albert



Using a modification of the route described by Clardy and Hughes et al., 2,4-methanoproline hydrochloride (1) was prepared in four steps and 70% overall yield from DL-serine methyl ester.

General method for dehydration, intramolecular cyclization, and fluorination of trifluoromethyl-1*H*-pyrazoles using DAST pp 3759–3761

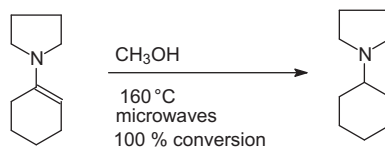
Helio G. Bonacorso*, Liliane M. F. Porte, Gisele R. Paim, Fabio M. Luz, Marcos A. P. Martins, Nilo Zanatta



Alcohol reduction of enamines pp 3762–3764

A. Gilbert Cook*

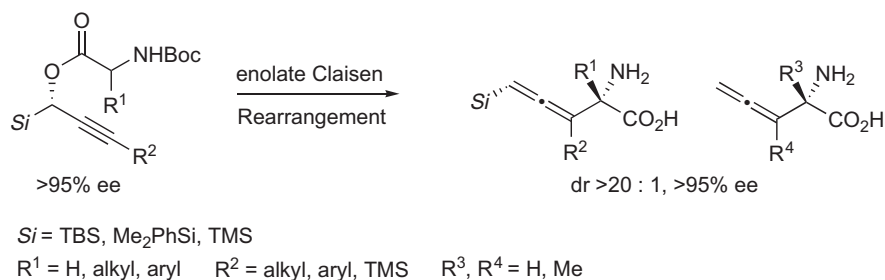
Alcohol Reduction of Enamines



Synthesis of optically active α -(allenyl)- and α -substituted- α -(allenyl)glycines

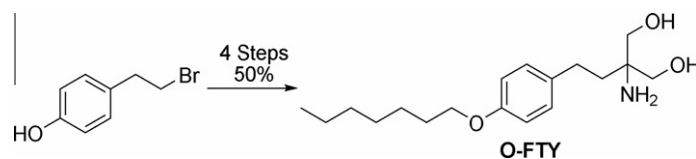
pp 3765–3768

Takuya Okada, Naoko Oda, Hiroyuki Suzuki, Kazuhiko Sakaguchi*, Yasufumi Ohfuné*

**Efficient chromatography-free synthesis of the oxy-analogue of fingolimod**

pp 3769–3771

Aleksandra Zivkovic, Holger Stark*



A new highly efficient optimized multigram synthesis of the ether analogue of fingolimod (FTY720) is described in four steps and 50% overall yield without a single chromatographic purification step. The synthesis route is conveniently applicable to numerous structural variations.

**Synthesis of β -aminovinylphosphonates by organocatalytic nucleophilic displacement of acetate with amines**

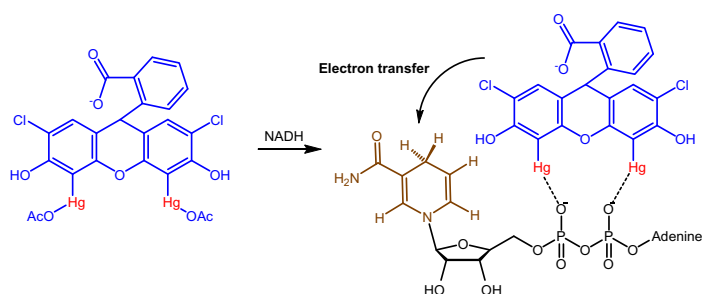
pp 3772–3774

Cécile Garzon, Mireille Attolini*, Michel Maffei*

**Fluorescein derivative-based, selective and sensitive chemosensor for NADH**

pp 3775–3778

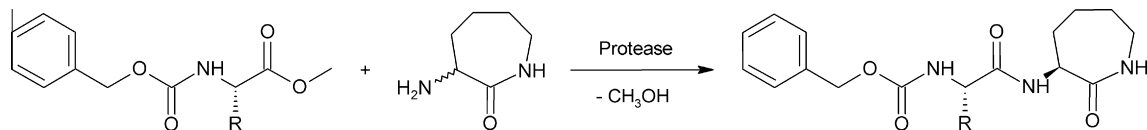
Sang Oh Jung, Ji Yeon Ahn, Sudeok Kim, Sujung Yi, Mi Hee Kim, Hyun Hye Jang, Seong Hyeok Seo, Min Sik Eom, Seung Kyung Kim, De Hun Ryu, Suk-Kyu Chang, Min Su Han*



Protease-catalysed synthesis of Z-1-aminoacyl-L-caprolactam amides from Z-protected amino acid esters and DL- α -amino- ϵ -caprolactam

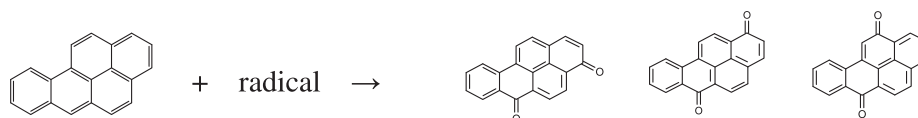
pp 3779–3781

Alexander Lang*, Peter Kuhl


Prediction of radical reaction site(s) of polycyclic aromatic hydrocarbons by atomic charge distribution calculation using the DFT method

pp 3782–3785

Min-Joo Lee, Byung-Dae Lee*


Synthesis of new triphenylphosphines with pending ethynyl substituents

pp 3786–3788

Guillaume Grelaud, Gilles Argouarch, Frédéric Paul*

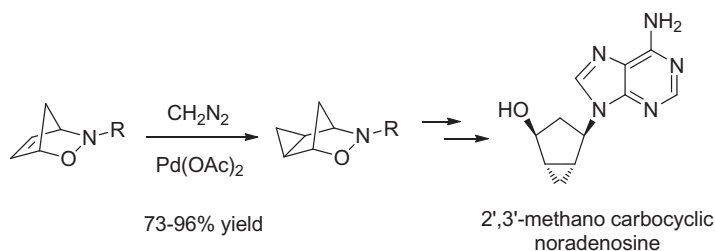


A new synthetic route toward the triphenylphosphine derivatives **1-6** possessing a pendent ethynyl substituent on peripheral aryl ring(s) is reported. All the new compounds were characterized by NMR and IR.


Cyclopropanation of nitroso Diels–Alder cycloadducts and application to the synthesis of a 2',3'-methano carbocyclic nucleoside

pp 3789–3791

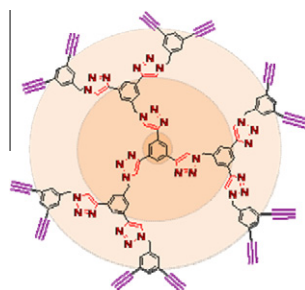
Cheng Ji, Marvin J. Miller*



Designing dendritic frameworks using versatile building blocks suitable for Cu^I-catalyzed alkyne azide ‘click’ chemistry

pp 3792–3795

Rami Hourani, Anjali Sharma, Ashok Kakkar*

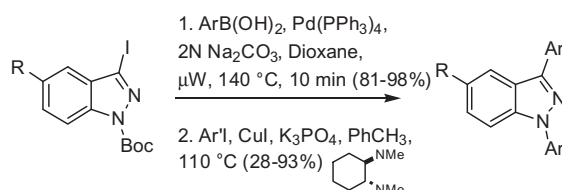


Versatile molecular building blocks for carrying out Cu^I-catalyzed alkyne azide ‘click’ reaction provide an efficient divergent or convergent route to dendritic frameworks with varied number of terminal acetylene groups that can be easily functionalized with suitable end groups.

**Synthesis of 1,3-diarylsubstituted indazoles utilizing a Suzuki cross-coupling/deprotection/N-arylation sequence**

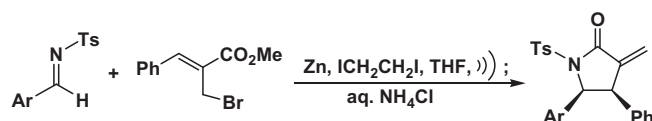
pp 3796–3799

James M. Salovich, Craig W. Lindsley, Corey R. Hopkins*

**Synthesis of *cis*-3,4-diaryl α -methylene- γ -butyrolactams via sonochemical Barbier-type reaction**

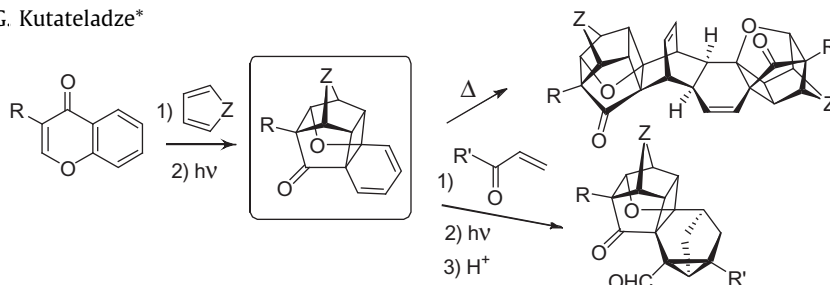
pp 3800–3802

Adam Shih-Yuan Lee*, Yu-Ting Chang

**First example of intramolecular [2 _{π} + 2 _{π}] alkene-arene photocyclization in the chromone series and its synthetic utility**

pp 3803–3806

Roman A. Valiulin, Andrei G. Kutateladze*

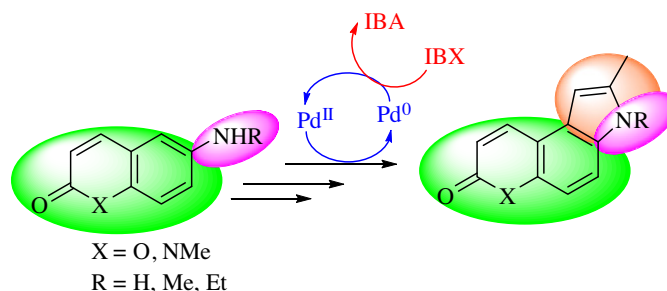


Diels–Alder adducts of chromones are shown to undergo an intramolecular [2 _{π} + 2 _{π}] alkene-arene photocyclization, leading to a versatile polycyclic diene which can dimerize or can be introduced into photoprotolytic oxametathesis.

Palladium-catalyzed regioselective oxidative amination of alkenes: an efficient route to the synthesis of pyrrolocoumarin and pyrroloquinolone derivatives

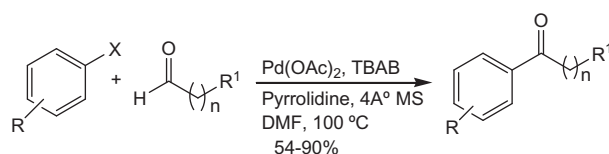
pp 3807–3810

K. C. Majumdar*, Srikanta Samanta, Raj Kumar Nandi, Buddhadeb Chattopadhyay


Palladium(0) nanoparticle-catalyzed sp² C–H activation: a convenient route to alkyl–aryl ketones by direct acylation of aryl bromides and iodides with aldehydes

pp 3811–3814

Laksmikanta Adak, Sukalyan Bhadra, Brindaban C. Ranu*

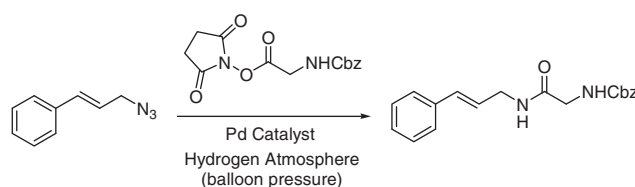


Palladium(0) nanoparticles efficiently catalyze aldehyde C–H functionalization by aryl halides to produce alkyl–aryl ketones in good yields.

Pd-catalyzed one-pot chemoselective hydrogenation protocol for the preparation of carboxamides directly from azides

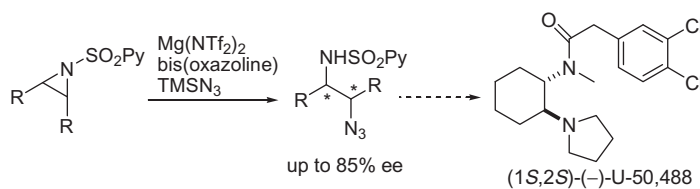
pp 3815–3819

Sudhir N. Bavikar, Deepak B. Salunke, Braja G. Hazra*, Vandana S. Pore, Josiane Thierry, Robert H. Dodd*


Enantioselective desymmetrization of meso-N-(heteroarenesulfonyl)aziridines with TMSN₃ catalyzed by chiral Lewis acids

pp 3820–3823

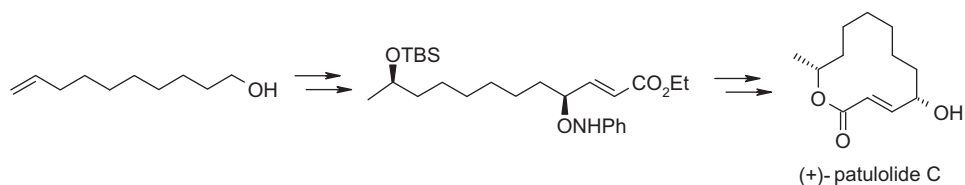
Shuichi Nakamura*, Masashi Hayashi, Yasutoshi Kamada, Ryosuke Sasaki, Yuichi Hiramatsu, Norio Shibata, Takeshi Toru



Enantioselective synthesis of (+)-patulolide C via proline-catalyzed sequential α -aminoxylation and Horner–Wadsworth–Emmons olefination

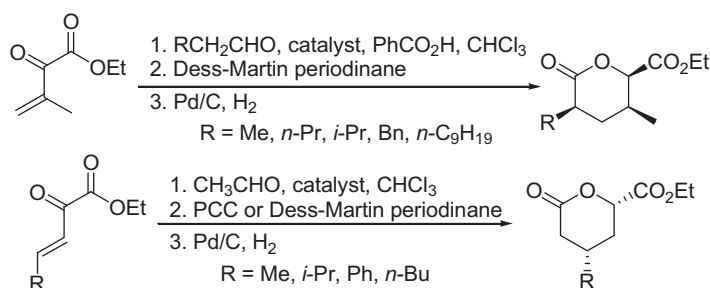
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Gowravaram Sabitha*, G. Chandrashekhar, K. Yadagiri, J. S. Yadav

**Organocatalytic approach to 3,5,6-trisubstituted and 4,6-disubstituted tetrahydropyran-2-ones**

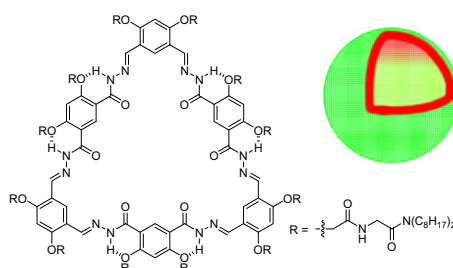
pp 3827–3829

Danhua Xu, Yihua Zhang*, Dawei Ma*

**Hydrogen-bonded benzylidenebenzohydrazide macrocycles and oligomers: testing the robust capacity of an amide chain in promoting the formation of vesicles**

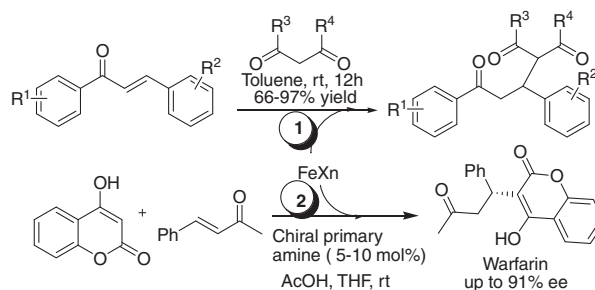
pp 3830–3835

Ben-Ye Lu, Guang-Jun Sun, Jian-Bin Lin, Xi-Kui Jiang, Xin Zhao, Zhan-Ting Li*

**Iron-catalyzed Michael reactions revisited: a synthetically useful process for the preparation of tri-carbonyl compounds and chiral warfarin**

pp 3836–3839

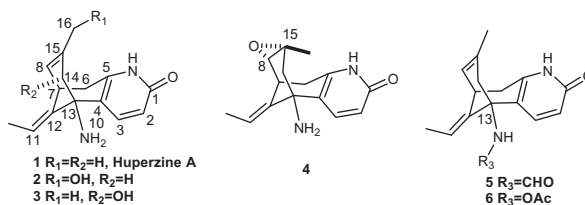
Hua-Meng Yang, Yue-Hua Gao, Li Li, Zhen-Yu Jiang, Guo-Qiao Lai*, Chun-Gu Xia, Li-Wen Xu*



Microbial transformation of (–)-Huperzine A

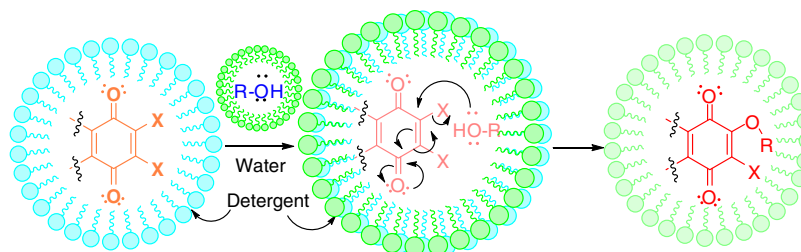
pp 3840–3842

Xinyuan Zhang, Jian-hua Zou, Jungui Dai*

**Water-promoted unprecedented chemoselective nucleophilic substitution reactions of 1,4-quinones with oxygen nucleophiles in aqueous micelles**

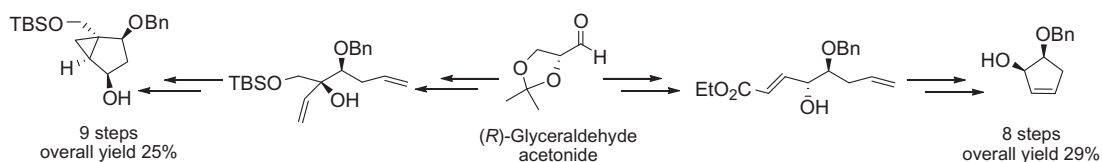
pp 3843–3847

Vishnu K. Tandon*, Hardesh K. Maurya

**Concise synthesis of five-membered ring carbasugars based on key ring-closing metathesis**

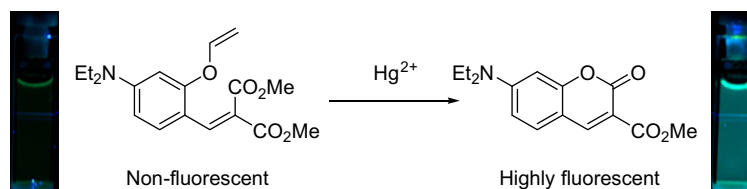
pp 3848–3851

Ya-Xi Yang, Zheng Li, Hui-Jin Feng, Guo-Rong Chen, Yuan-Chao Li*

**A 'turn-on' fluorescent probe that selectively responds to inorganic mercury species**

pp 3852–3854

Yong-Suk Cho, Kyo Han Ahn*

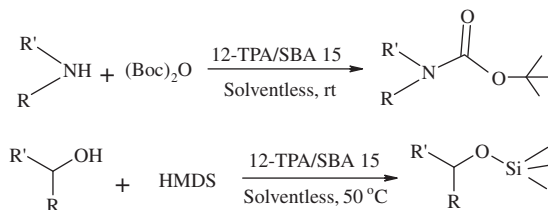


A fluorescent probe selectively senses inorganic mercury in the turn-on mode through a mercury ion-promoted hydrolysis reaction that leads to a coumarin, among various other metal species except Au(III).



An expeditious, efficient green methodology for the Boc protection of amines and silyl protection of alcohols over tungstophosphoric acid-doped mesoporous silica pp 3855–3858

Bikash Karmakar, Julie Banerji*

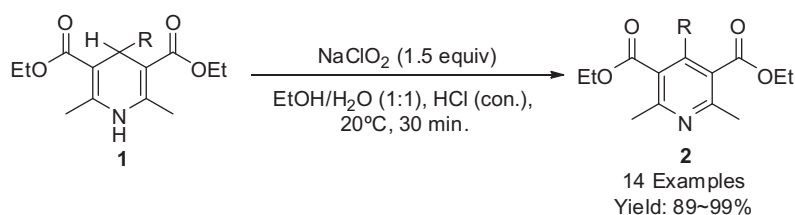


A green method has been adopted for the protection of amines as *N*-Boc and alcohols as silyl ether in the presence of tungstophosphoric acid-doped mesoporous silica (SBA15).

**Oxidative aromatization of Hantzsch 1,4-dihydropyridines by sodium chlorite**

pp 3859–3861

Xiali Liao, Wenbin Lin, Jun Lu, Chun Wang*



*Corresponding author

Supplementary data available via ScienceDirect

Abstracted/indexed in: AGRICOLA, Beilstein, BIOSIS Previews, CAB Abstracts, Chemical Abstracts, Chemical Engineering and Biotechnology Abstracts, Current Biotechnology 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®



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ISSN 0040-4039