

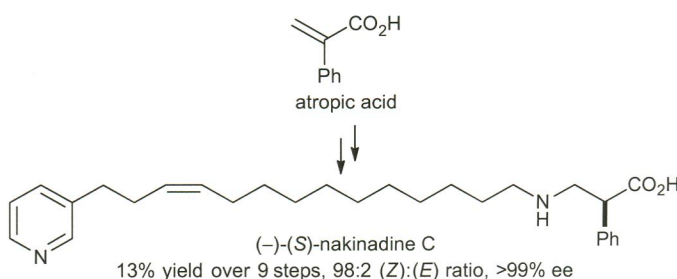


Tetrahedron Letters

THE INTERNATIONAL JOURNAL FOR THE RAPID PUBLICATION OF ALL
PRELIMINARY COMMUNICATIONS IN ORGANIC CHEMISTRY

IN THIS ISSUE:

Asymmetric synthesis of the marine alkaloid (–)-(S)-nakinadine C



**Stephen G. Davies, Paul M. Roberts, Rushabh S. Shah,
James E. Thomson**

Tetrahedron Letters Vol. 54, Issue 48, 2013

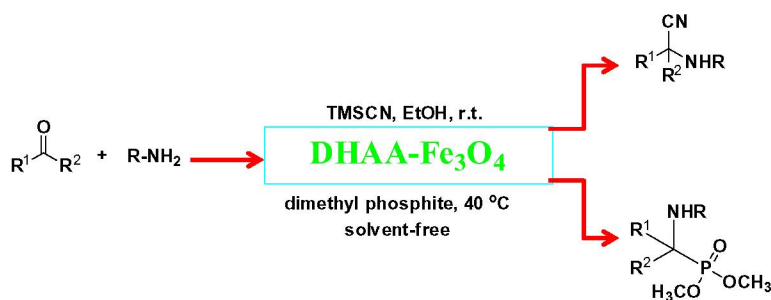
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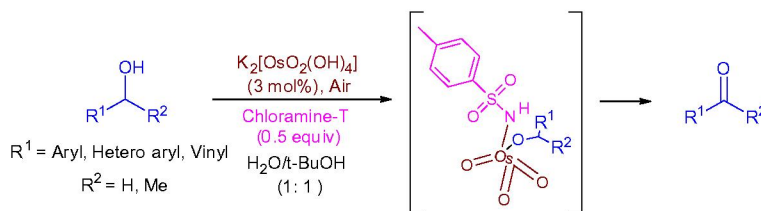
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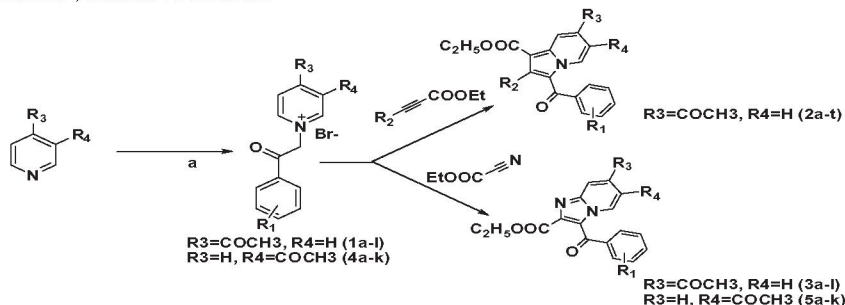
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Efficient synthesis of indolizines and new imidazo[1,2-a]pyridines via the expected cyclization of aromatic cycloimmonium ylides with electron deficient alkynes and ethyl cyanoformate

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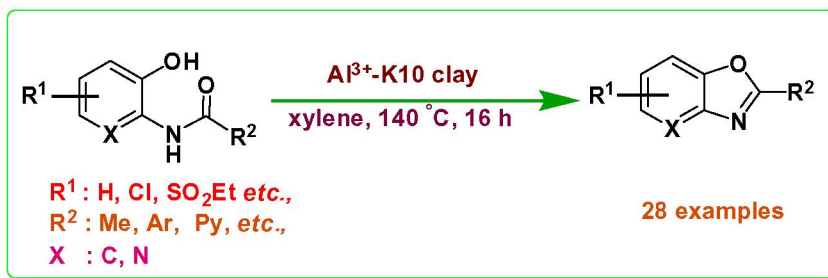
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A green route for the synthesis of 2-substituted benzoxazole derivatives catalyzed by Al^{3+} -exchanged K10 clay

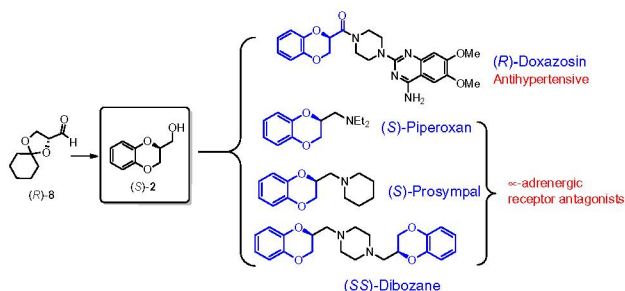
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Dhanusu Suresh, Amarajothi Dhakshinamoorthy, Kasi Pitchumani*

**A facile approach to chiral 1,4-benzodioxane toward the syntheses of doxazosin, prosympal, piperoxan, and dibozane**

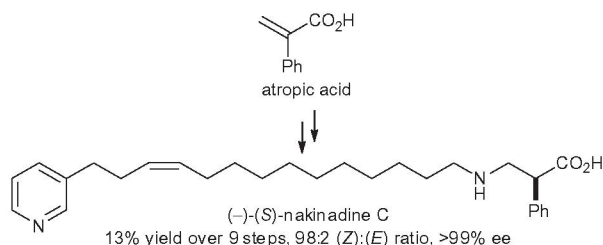
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Abdul Rouf*, Mushtaq A. Aga, Brijesh Kumar, Subhash Chandra Taneja*

**Asymmetric synthesis of the marine alkaloid (–)-(S)-nakinadine C**

pp 6423–6426

Stephen G. Davies*, Paul M. Roberts, Rushabh S. Shah, James E. Thomson

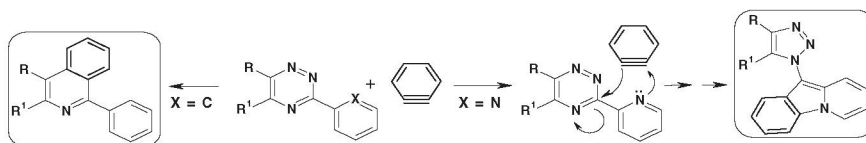


The first asymmetric synthesis of the marine alkaloid (–)-(S)-nakinadine C is described, proceeding from commercially available atropic acid in 13% yield over 9 steps, 98:2 (Z):(E) ratio and >99% ee.

**Benzyne-mediated rearrangement of 3-(2-pyridyl)-1,2,4-triazines into 10-(1H-1,2,3-triazol-1-yl)pyrido[1,2-a]indoles**

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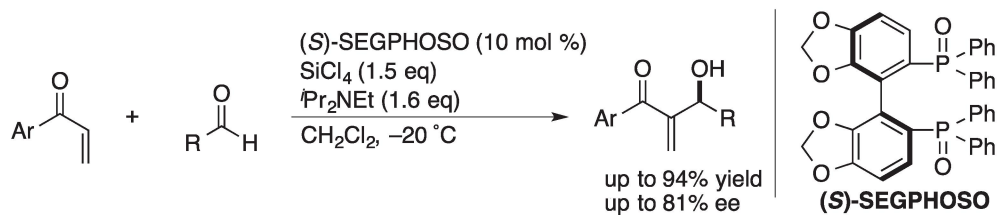
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Enantioselective Morita–Baylis–Hillman reaction catalyzed by a chiral phosphine oxide

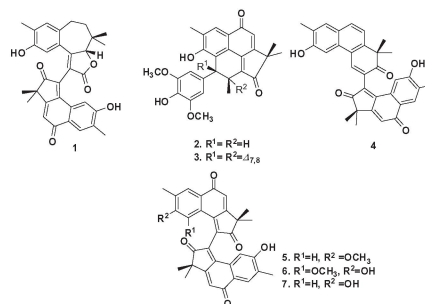
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**Trigoxypins O–T, six new heterodimers from *Trigonostemon xyphophylloides***

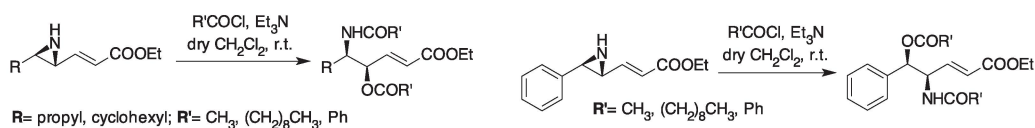
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**New one-pot procedure for the synthesis of diprotected amino alcohols from unprotected vinyl aziridines**

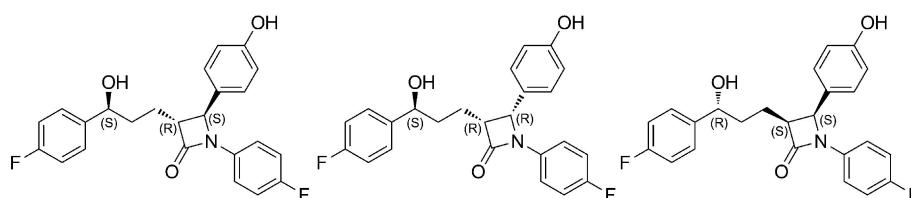
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Giuliana Righi*, Paolo Bovicelli, Ilaria Tirota*

**First synthesis and characterization of *SRR*/*RSS*-Ezetimibe**

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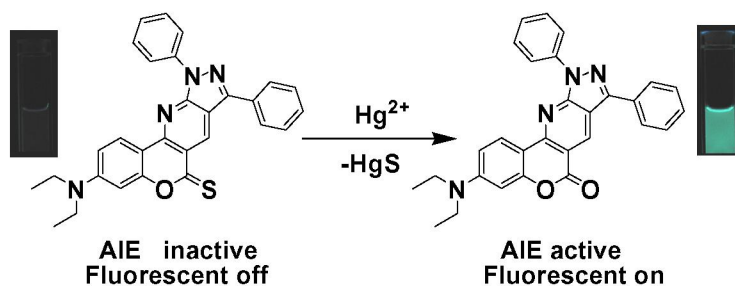
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Turn-on fluorescence sensor based on the aggregation of pyrazolo[3,4-*b*]pyridine-based coumarin chromophores induced by Hg²⁺

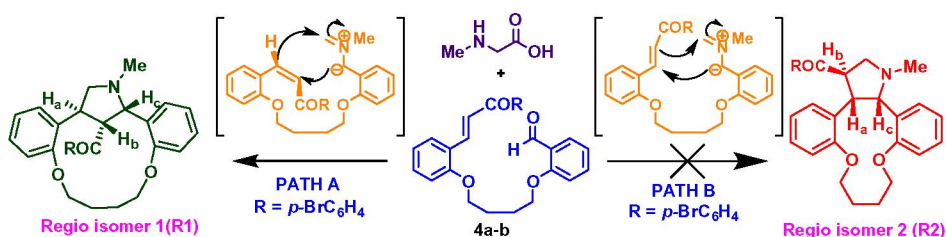
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Jianhong Chen, Weimin Liu*, Ying Wang, Hongyan Zhang, Jiasheng Wu, Haitao Xu, Weigang Ju*, Pengfei Wang


Expedient synthesis of bicyclic pyrrolidine/pyrrolizidine/thiazolidine grafted macrocycles through intramolecular 1,3-dipolar cycloaddition of azomethine ylides

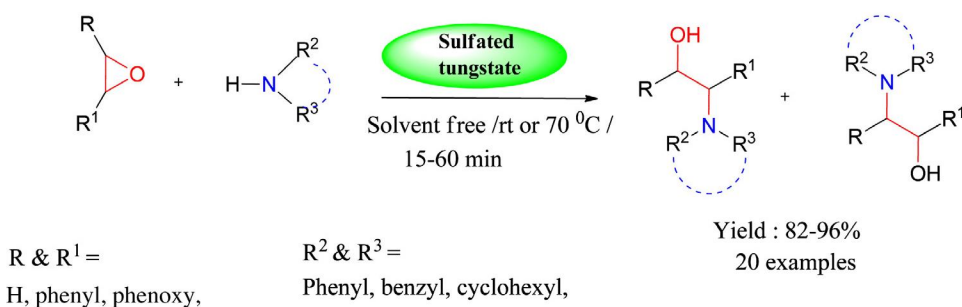
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S. Purushothaman, R. Prasanna, R. Raghunathan*


An efficient protocol for regioselective ring opening of epoxides using sulfated tungstate: application in synthesis of active pharmaceutical ingredients atenolol, propranolol and ranolazine

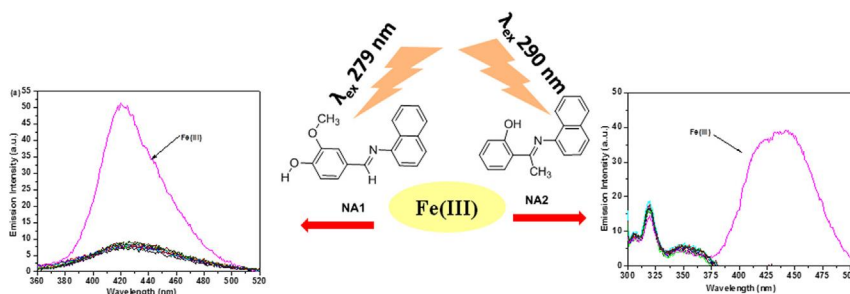
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Sagar P. Pathare, Krishnacharya G. Akamanchi*


Sensing of Fe(III) ion via turn-on fluorescence by fluorescence probes derived from 1-naphthylamine

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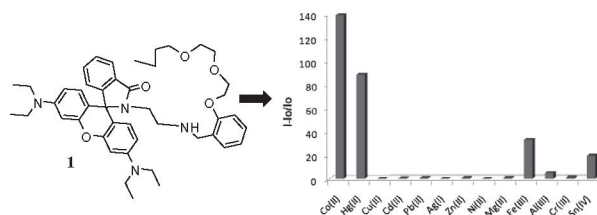
Kaushik Ghosh*, Sweetly Rath, Ritu Kushwaha



Rhodamine-labelled new architecture for dual sensing of Co^{2+} and Hg^{2+} ions

pp 6464–6468

Kumaresh Ghosh*, Tanmay Sarkar, Anupam Majumdar

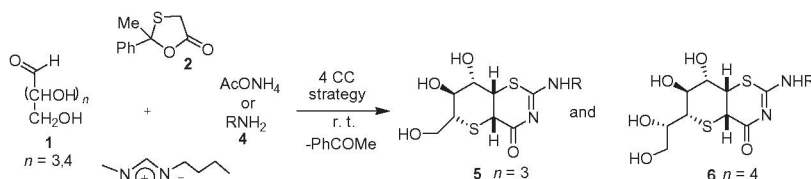


A new rhodamine-based chemosensor **1** selectively recognizes Co^{2+} and Hg^{2+} ions in $\text{CH}_3\text{CN}/\text{water}$ at pH 6.8 by showing different extents of change in emission. The disappearance of colour of mercury-ensemble of **1** followed by appearance of distinct bluish colour under UV illumination upon addition of L-cysteine distinguishes Hg^{2+} from Co^{2+} ions.

**Masked mercapto acid-driven MCR in task-specific ionic liquid: a new stereocontrolled entry into bicyclic 1,3-thiazines**

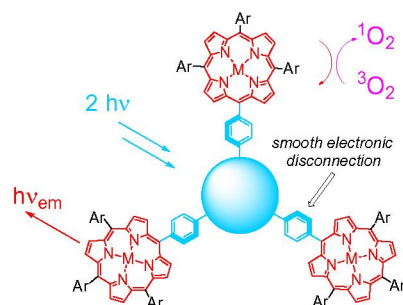
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Vijai K. Rai*, Prashant Kumar Rai, Yogita Thakur

**Strong enhancement of two-photon absorption properties in synergic ‘semi-disconnected’ multiporphyrin assemblies designed for combined imaging and photodynamic therapy**

pp 6474–6478

Olivier Mongin, Muniappan Sankar, Marina Charlot, Youssef Mir, Mireille Blanchard-Desce*



- ✓ selective (non-resonant) 2PA in the NIR
- ✓ 2PA enhancement factor up to ~40
- ✓ singlet oxygen production fully retained
- ✓ intense red fluorescence

**Synthesis of 2-substituted 3-ethyl-3H-imidazo[4,5-b]pyridines catalyzed by Al^{3+} -exchanged K10 clay as solid acids**

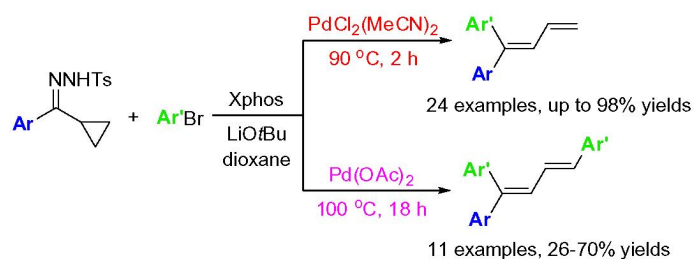
pp 6479–6484

Dhanusu Suresh, Amarajothi Dhakshinamoorthy, Kuppusamy Kanagaraj, Kasi Pitchumani*



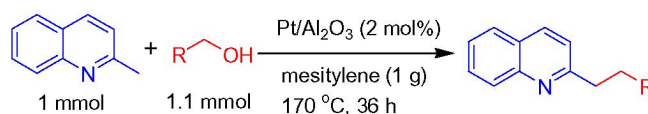
Palladium-catalyzed cross-coupling of cyclopropylmethyl N-tosylhydrazones with aromatic bromides: an easy access to multisubstituted 1,3-butadienes pp 6485–6489

Qin Yang, Huining Chai, Tingting Liu, Zhengkun Yu*


Alkylation of 2-methylquinoline with alcohols under additive-free conditions by Al_2O_3 -supported Pt catalyst

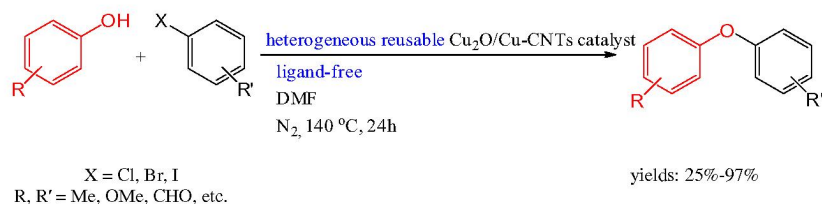
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Chandan Chaudhari, S. M. A. Hakim Siddiki, Ken-ichi Shimizu*


Ligand-free catalytic system for the synthesis of diarylethers over $\text{Cu}_2\text{O}/\text{Cu-CNTs}$ as heterogeneous reusable catalyst

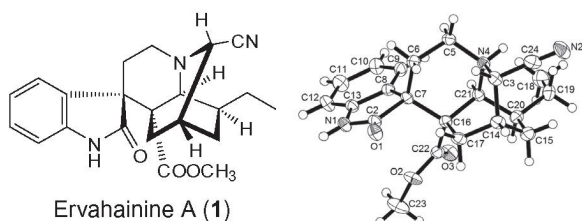
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Ying-Peng Zhang*, Ya-Cong Jiao, Yun-Shang Yang*, Chun-Lei Li


Ervahainine A, a new cyano-substituted oxindole alkaloid from *Ervatamia hainanensis*

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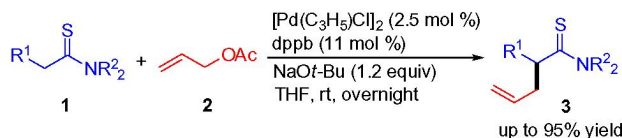
Zhi-Wen Liu, Ting-Ting Yang, Wen-Jing Wang*, Guo-Qiang Li, Ben-Qin Tang, Qing-Wen Zhang*, Chun-Lin Fan, Dong-Mei Zhang, Xiao-Qi Zhang*, Wen-Cai Ye



Pd-catalyzed allylic alkylation of thioamides

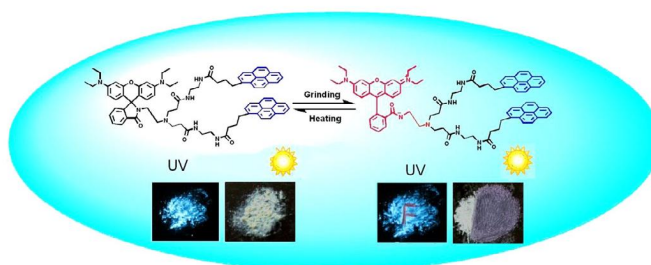
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Bin Rong, Lei Ding, Hailei Yu, Qin Yang, Xuliang Liu, Dongfang Xu, Guisheng Li, Baoguo Zhao*

**The mechanically induced color change from UV to visible region**

pp 6504–6506

Zhiyong Ma, Mingjun Teng, Zhijian Wang, Xinru Jia*

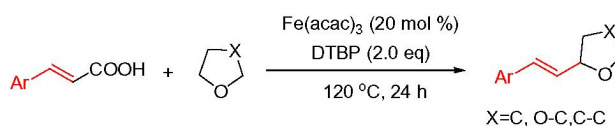


The branched amidoamine molecule **1** with different chromophores of a rhodamine B and two pyrenyl moieties at each side was synthesized. The luminescent properties of **1** with the color change from bright blue (UV region) to reddish (visible region) under mechanical stimulus were observed, which was attributed to the emission of pyrene excimer II, with a sandwich packing mode, and the chemical reaction of rhodamine B from a spirolactam to a ring opened amide.

**Iron-catalyzed alkenylation of cyclic ethers via decarboxylative $\text{sp}^3(\text{C})$ – $\text{sp}^2(\text{C})$ coupling**

pp 6507–6510

Jincan Zhao, Wei Zhou, Jianlin Han*, Guigen Li, Yi Pan*

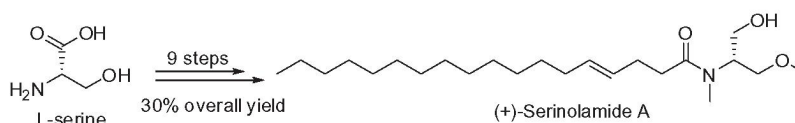


An efficient $\text{Fe}(\text{acac})_3$ -catalyzed decarboxylative $\text{C}(\text{sp}^2)$ – $\text{C}(\text{sp}^3)$ coupling reaction has been reported, in which cyclic ethers are selectively transformed into corresponding alkenylation products with good chemical yields and excellent stereoselectivities.

**Concise synthesis of (+)-serinolamide A**

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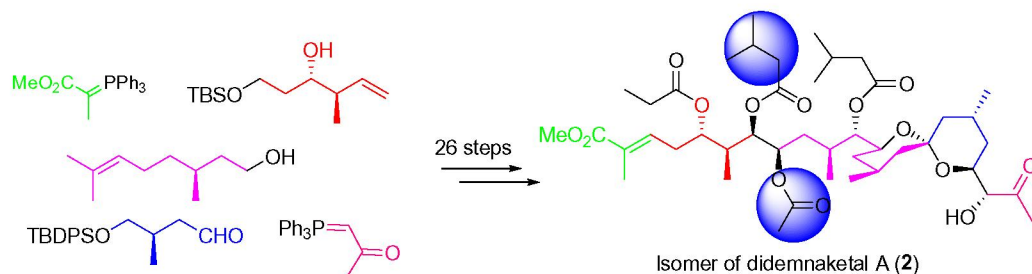
Ya-Ru Gao, Shi-Huan Guo, Zhuan-Xiang Zhang, Shuai Mao, Yan-Lei Zhang, Yong-Qiang Wang*



Toward the natural didemnaketal A: total synthesis of the isomer of didemnaketal A

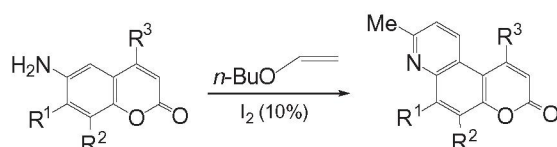
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Lei Peng, Fu-Min Zhang*, Bing-Miao Yang, Xiao-Bo Zhang, Wen-Xing Liu, Shu-Yu Zhang, Yong-Qiang Tu

**Synthesis of methyl substituted [5,6]- and [7,8]-fused pyridocoumarins via the iodine-catalyzed reaction of aminocoumarins with *n*-butyl vinyl ether**

pp 6517–6519

Theodoros S. Symeonidis, Konstantinos E. Litinas*

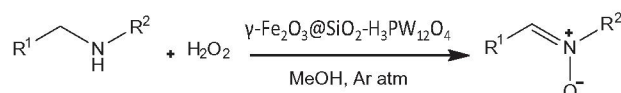


The three-component reactions of aminocoumarins with *n*-butyl vinyl ether using a catalytic amount of I_2 resulted in 2-methyl substituted fused pyridocoumarin derivatives.

Oxidation of secondary amines to nitrones using magnetically separable tungstophosphoric acid supported on silica-encapsulated $\gamma\text{-Fe}_2\text{O}_3$ nanoparticles

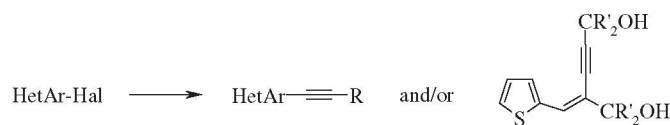
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Fateme Nikbakht, Akbar Heydari*, Dariush Saberi, Kobra Azizi

**A copper-free, cross-coupling of terminal alkynes with hetaryl halides**

pp 6524–6528

Pavel Arsenyan*, Kira Rubina, Jelena Vasiljeva, Sergey Belyakov

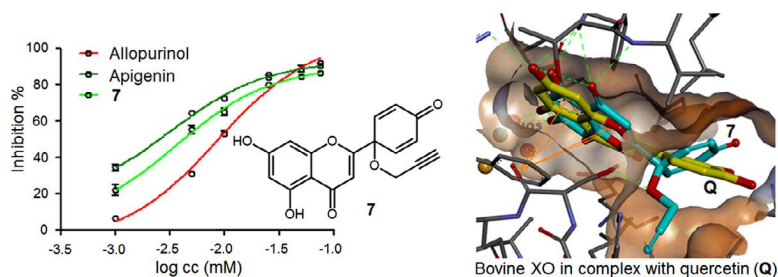


28 examples

Substituted ethynyl heterocycles and heteroarylbutenyne are synthesized efficiently in good yields via a copper-free, cross-coupling reaction.

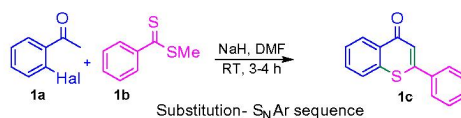
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**Transition metal free intramolecular S-arylation: one-pot synthesis of thiochromen-4-ones**

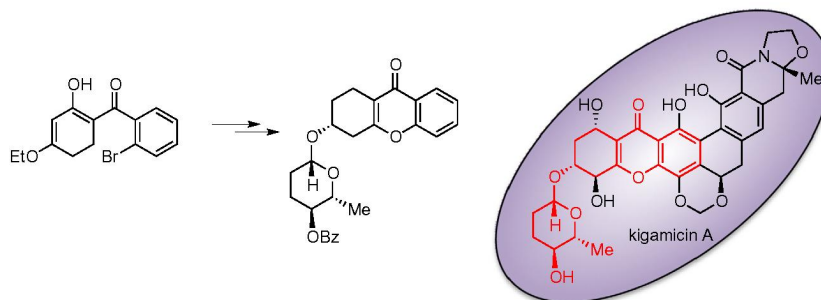
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T. A. Jenifer Vijay, Kebbahalli N. Nandeesh, Goravanahalli M. Raghavendra, Kanchugarakoppal S. Rangappa, Kempegowda Mantelingu*

**Stereocontrolled synthesis of a D-amictose functionalised tetrahydroxanthone related to kigamicin A**

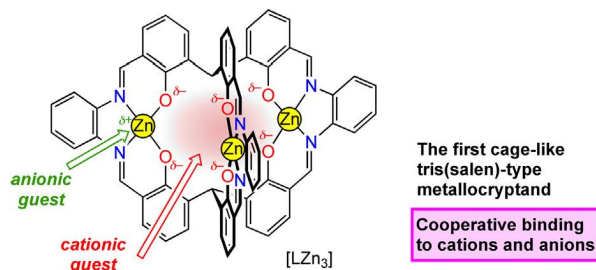
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Penelope A. Turner, Samiullah*, Jacqueline L. Whatmore, Michael Shipman*

**Cage-like tris(salen)-type metallocryptand for cooperative guest recognition**

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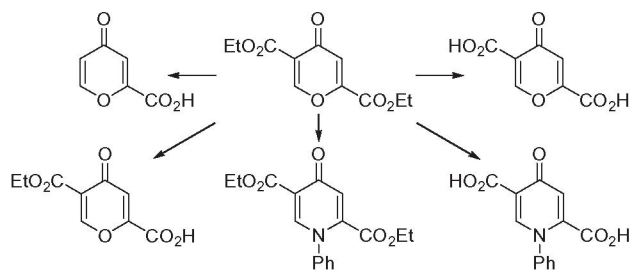
Shigehisa Akine*, Shunjin Piao, Masato Miyashita, Tatsuya Nabeshima*



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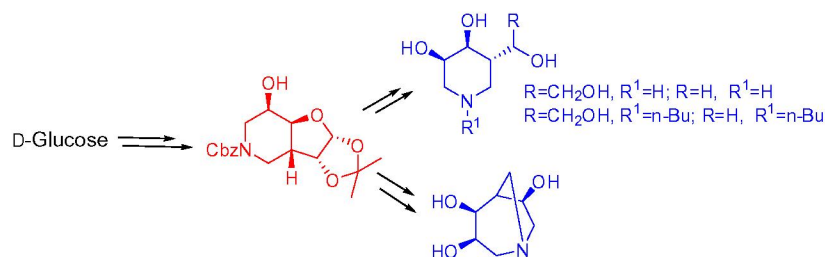
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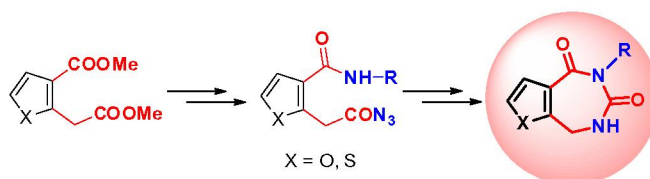
Asadulla Mallick, A. P. John Pal, Yashwant D. Vankar*



Furo- and thieno-fused 1,3-diazepine-4,6-diones

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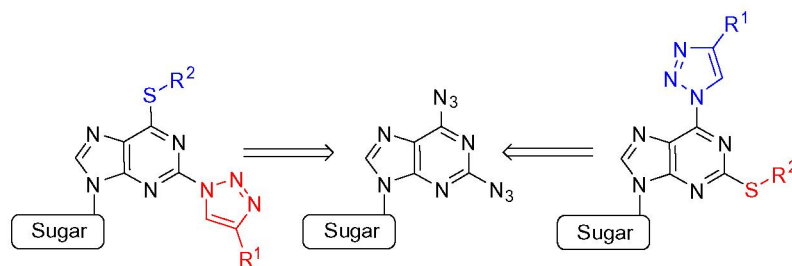
Merve Sinem Ozer, Gani Koza, Ertan Sahin, Metin Balci*



Application of 2,6-diazidopurine derivatives in the synthesis of thiopurine nucleosides

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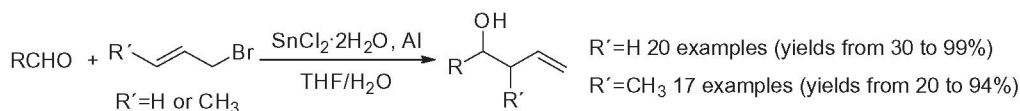
Irina Novosjolova, Ērika Bizdēna, Māris Turks*



A practical procedure of low valent tin mediated Barbier allylation of aldehydes in wet solvent

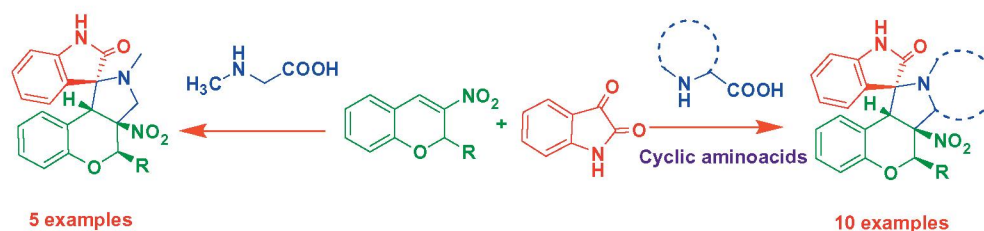
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Conxín Vilanova, María Sánchez-Péris, Steven Roldán, Bhaskar Dhotare, Miguel Carda*, Angshuman Chattopadhyay*

**An expedient synthesis of pyrrolidinyl spirooxindole grafted 3-nitrochromanes through 1,3-dipolar cycloaddition reaction of azomethine ylides**

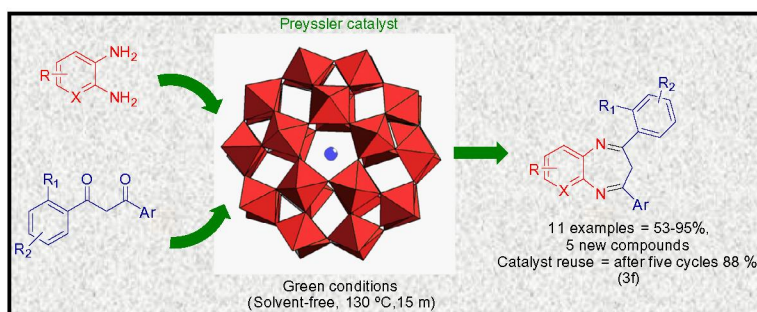
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J. Naga Siva Rao, R. Raghunathan*

**Preyssler catalyst-promoted rapid, clean, and efficient condensation reactions for 3H-1,5-benzodiazepine synthesis in solvent-free conditions**

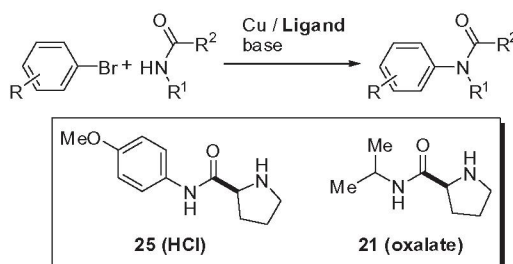
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Gustavo A. Pasquale, Diego M. Ruiz, Jorge L. Jios, Juan C. Autino, Gustavo P. Romanelli*

 **α -Aminoamides as ligands in Goldberg amidations**

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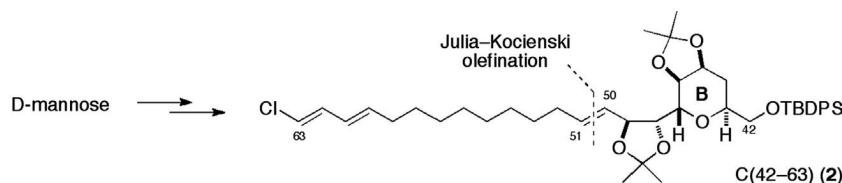
Aurpon W. Mitra, Marvin M. Hansen, Michael E. Laurila, Stanley P. Kolis, Joseph R. Martinelli*



Karlotoxin synthetic studies: concise synthesis of a C(42–63) B-ring tetrahydropyran fragment

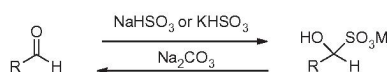
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Takashi Tomioka*, Yusuke Takahashi, Toshihide Maejima, Yuki Yabe, Hiroki Iwata, Mark T. Hamann*

**Counterion effects in the preparation of aldehyde–bisulfite adducts**

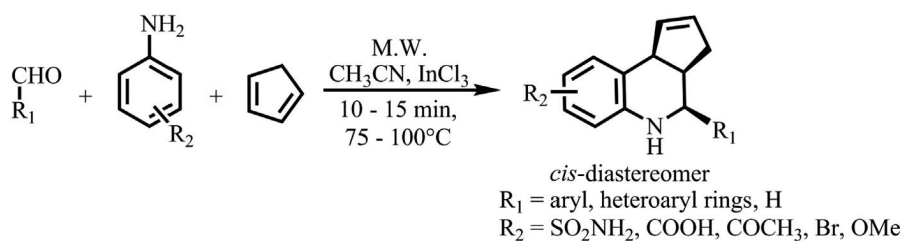
pp 6587–6591

Marie G. Kissane*, Scott A. Frank*, Gregory A. Rener, Christopher P. Ley, Charles A. Alt, Paul A. Stroud, Radhe K. Vaid, Sathish K. Boini, Laura A. McKee, Jeffrey T. Vicenzi, Gregory A. Stephenson

**Microwave-assisted expeditious and efficient synthesis of cyclopentene ring-fused tetrahydroquinoline derivatives using three-component Povarov reaction**

pp 6592–6595

Abhijit R. Kulkarni, Ganesh A. Thakur*

**Synthesis of nitrocyclopropyl peptidomimetics**

pp 6596–6598

Norma K. Dunlap*, Jacob Basham, Matthew Wright, Katrina Smith, Omar Chapa, Jihun Huang, Will Shelton, Yaroslav Yatsky



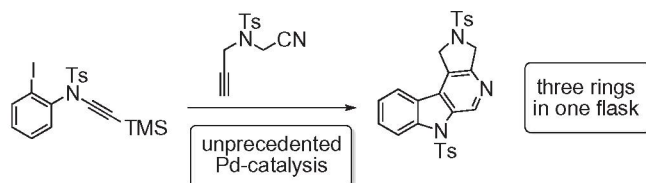
Nitrocyclopropanation of amino-acid derived enones has led to a series of cyclopropyl peptidomimetics suitable for further elaboration to compounds with the potential for biological activity.



Three-step synthesis of an annulated β -carboline via palladium catalysis

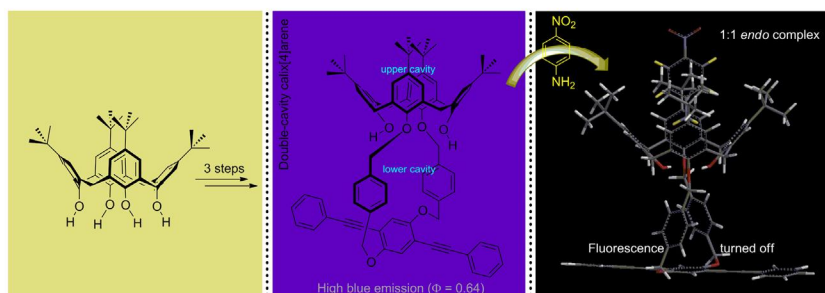
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Seann P. Mulcahy*, Jonathan G. Varelas

**A new fluorescent double-cavity calix[4]arene: synthesis and complexation studies toward nitroanilines**

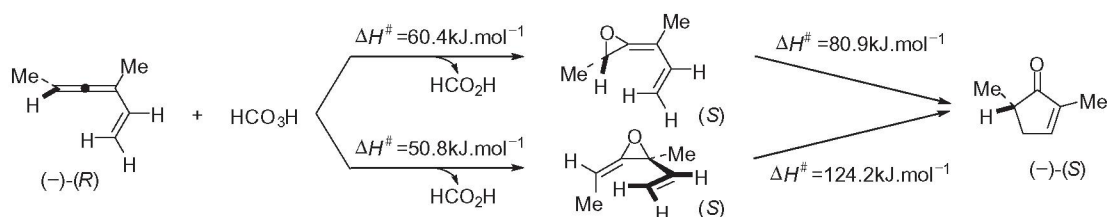
pp 6602–6606

Carlos M. Teixeira, Alexandra I. Costa, José V. Prata*

**Theoretical modelling of the epoxidation of vinylallenes to give cyclopentenones**

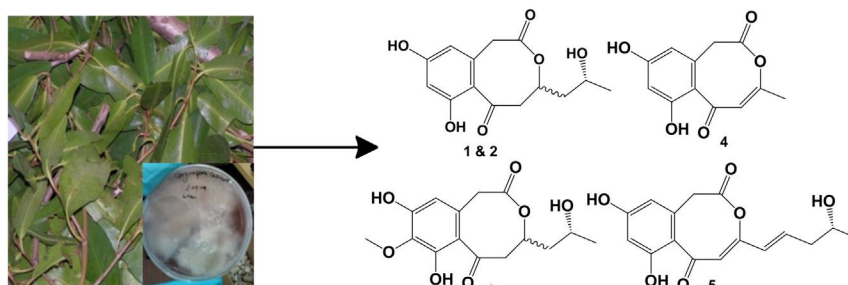
pp 6607–6610

G rard Audran, Paul Br mond, Sylvain R. A. Marque, Anouk Gaudel-Siri, Didier Siri*, Maurice Santelli*

**Unusual octalactones from *Corynespora cassiicola*, an endophyte of *Laguncularia racemosa***

pp 6611–6614

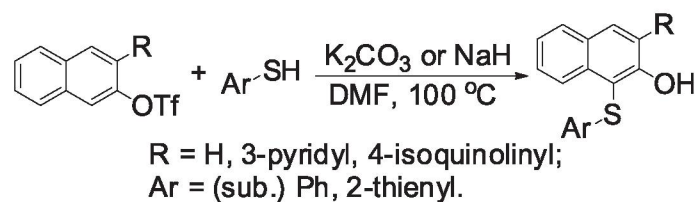
Weaam Ebrahim, Amal H. Aly, Victor Wray, Peter Proksch, Abdessamad Debbab*



Unexpected results of a S_{NAr} -reaction. A novel synthetic approach to 1-aryltio-2-naphthols

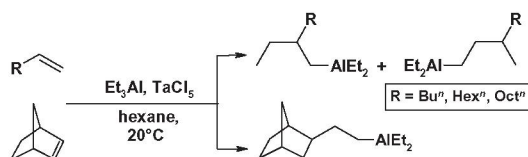
pp 6615–6618

Cornelia M. Grombein, Qingzhong Hu, Ralf Heim, Volker Huch, Rolf W. Hartmann*

**Unusual pathway of the tantalum-catalyzed carboalumination reaction of alkenes with triethylaluminum**

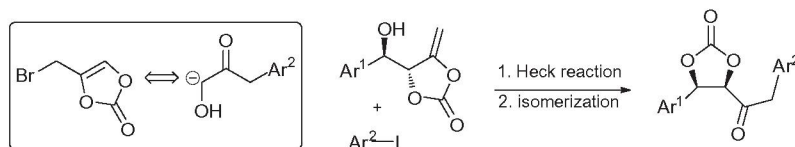
pp 6619–6623

Rifkat M. Sultanov*, Elena V. Samoilova, Natal'ya R. Popod'ko, Artur R. Tulyabaev, Denis Sh. Sabirov, Usein M. Dzhemilev

**Expanding the scope of the indium-promoted allylation reaction: 4-(bromomethyl)-1,3-dioxol-2-one as a synthetic equivalent of a 3-arylhydroxyacetone enolate**

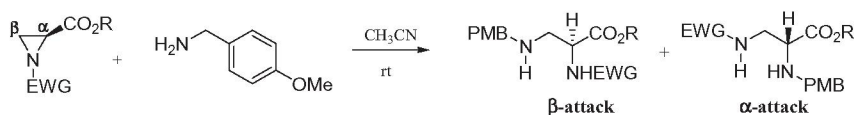
pp 6624–6626

Miljan Bigovic, Sanja Skaro, Veselin Maslak*, Radomir N. Saicic*

**Synthesis of orthogonally protected 1,2-diaminopropanoic acids by ring-opening of 3-unsubstituted N-activated aziridine 2-carboxylates with *para*-methoxybenzylamine: a study of the regioselectivity of the reaction**

pp 6627–6630

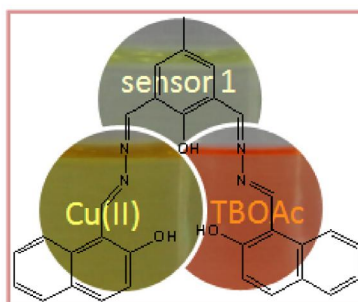
Keith O'Brien, Fintan Kelleher*



Single chemosensor for highly selective colorimetric and fluorometric dual sensing of Cu(II) as well as 'NIRF' to acetate ion

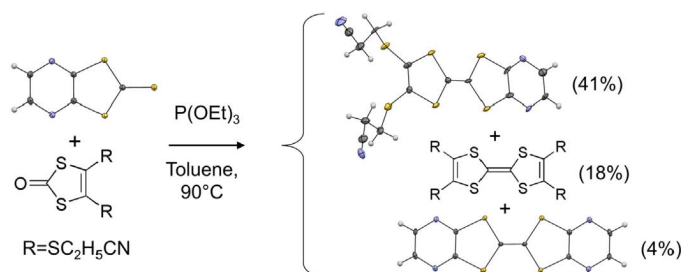
pp 6631–6634

Shyamaprosad Goswami*, Sibaprasad Maity, Avijit Kumar Das, Annada C. Maity

**Extended TTF-type donors fused with pyrazine units; synthesis and characterization**

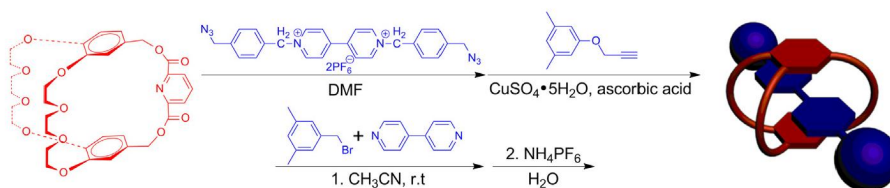
pp 6635–6639

Sandra Rabaça*, Sandrina Oliveira, Isabel C. Santos, Manuel Almeida*

**Two protocols for the preparation of [2]rotaxanes based on the dibenzo-24-crown-8-based cryptand/paraquat recognition motif**

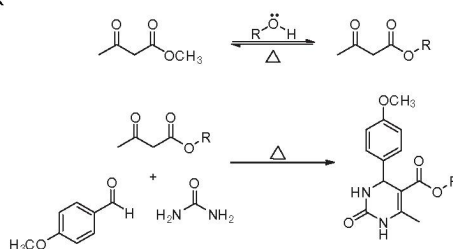
pp 6640–6643

Xiujuan Wu, Min Xue, Jinying Li, Xuzhou Yan*, Qizhong Zhou*

**An efficient synthesis of β -ketoesters via transesterification and its application in Biginelli reaction under solvent-free, catalyst-free conditions**

pp 6644–6647

G. B. Dharma Rao, B. N. Acharya, M. P. Kaushik*



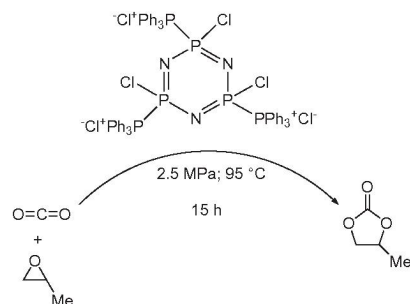
A simple and efficient transesterification process for the synthesis of β -ketoester derivatives has been achieved by the reaction of methyl β -ketoester with higher alcohols at 110 °C under solvent-free, catalyst-free conditions and its application in synthesis of 3,4-dihydropyrimidin-2(1H)-ones C-5 ester derivatives via Biginelli reaction has been described.



Multiple active motifs grafted on cyclotriphosphazene core: a novel catalyst for the chemical activation of carbon dioxide

pp 6648–6650

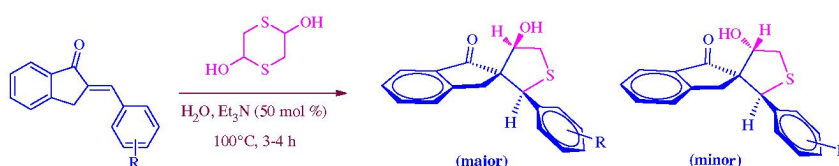
Praveen K. Khatri, Suman L. Jain*, Kwon Taek Lim



Domino reactions in water for the stereoselective synthesis of novel spiro dihydro-2'H-[indene-2,3'-thiophen]-1(3H)-ones with three contiguous stereocenters

pp 6651–6655

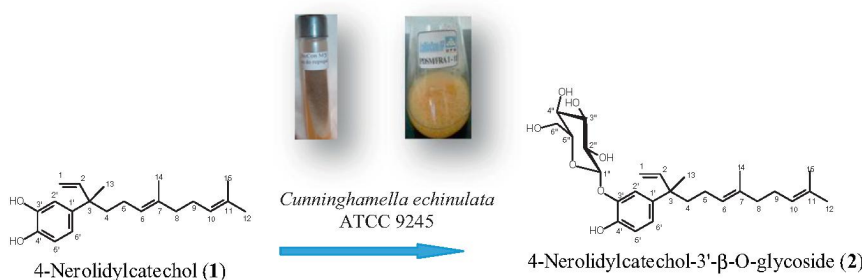
Sundaravel Vivek Kumar, Pitchaimani Prasanna, Subbu Perumal*



Biosynthesis and antioxidant activity of 4NRC β-glycoside

pp 6656–6659

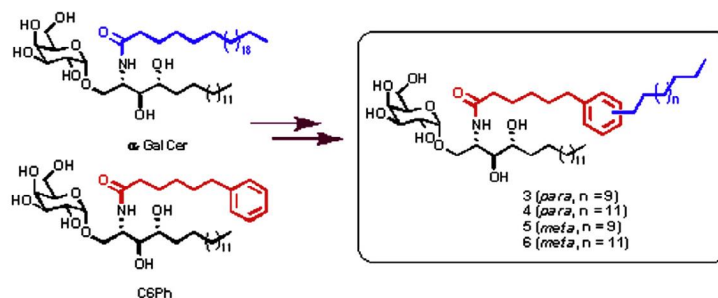
Kelly C. F. Araújo Cordeiro, Kênnia R. Rezende, Boniek G. Vaz, Wanderson Romão, Luciano M. Lião, Eric de Souza Gil, Valéria de Oliveira*



Synthesis and bioactivity of α-galactosylceramide analogues bearing an aryl group within the fatty amide chain

pp 6660–6664

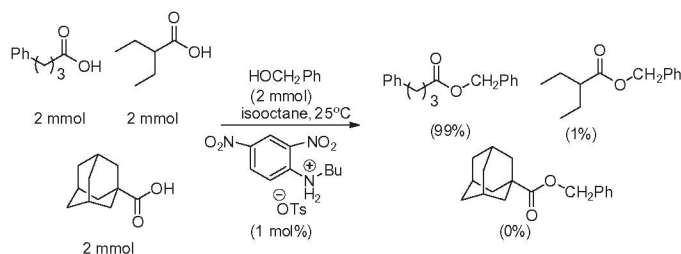
Dong Jae Baek, Jun-Seok Park, Joo-Youn Lee, Chaemin Lim, Chang-Yuil Kang, Robert Bittman*



N-Butyl-2,4-dinitro-anilinium *p*-toluenesulfonate as a highly active and selective esterification catalyst

pp 6665–6668

Narsimha Sattenapally, Wei Wang, Huimin Liu, Yong Gao*

**OTHER CONTENT****Corrigendum to “Towards the synthesis of coumarin derivatives as potential dual-action HIV-1 protease and reverse transcriptase inhibitors” [Tetrahedron Lett. 51 (2010) 6325–6328]**

p 6669

Temitope O. Olomola, Rosalyn Klein, Kevin A. Lobb, Yasien Sayed, Perry T. Kaye*

*Corresponding author

Supplementary data available via ScienceDirect

COVER

Asymmetric synthesis of the marine alkaloid (–)-(S)-nakinadine C

Tetrahedron Letters 2013, 54, 6423–6426.

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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