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# Tetrahedron Letters

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PRELIMINARY COMMUNICATIONS IN ORGANIC CHEMISTRY

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Tetrahedron Letters Vol. 55, Issue 4, 2014

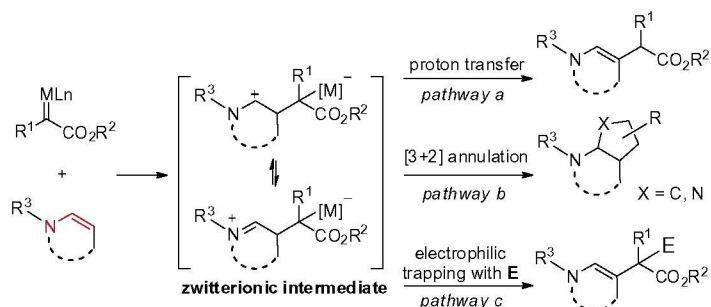
Contents

DIGEST PAPERS

Recent advances in metal carbenoid mediated nitrogen-containing zwitterionic intermediate trapping process

pp 777–783

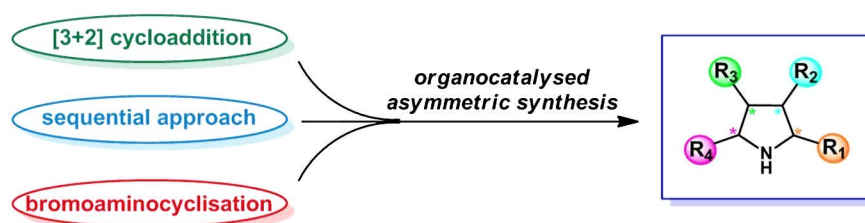
Dong Xing, Wenhao Hu\*



Recent advances in organocatalytic asymmetric synthesis of polysubstituted pyrrolidines

pp 784–794

Man-Yi Han, Ju-Ying Jia, Wei Wang\*

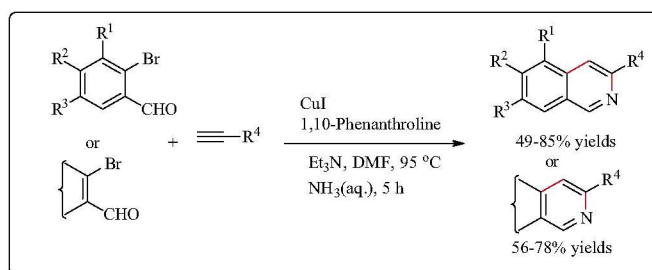


COMMUNICATIONS

One-pot synthesis of isoquinoline and related compounds via Cu-mediated tandem cross-coupling and cyclization

pp 795–798

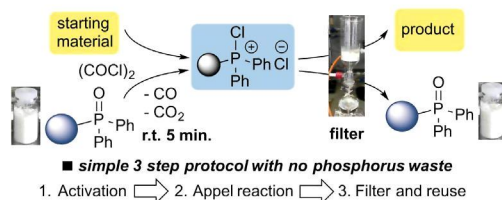
Shubhendu Dhara, Raju Singha, Yasin Nuree, Jayanta K. Ray\*



### A procedure for Appel halogenations and dehydrations using a polystyrene supported phosphine oxide

pp 799–802

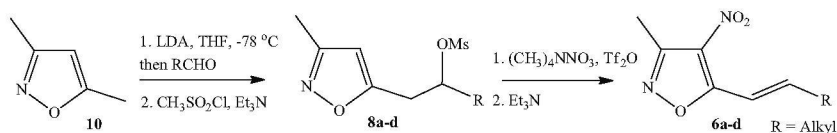
Xiaoping Tang, Jie An, Ross M. Denton\*



### The preparation of 3-methyl-4-nitro-5-(2-alkylethenyl)isoxazoles

pp 803–805

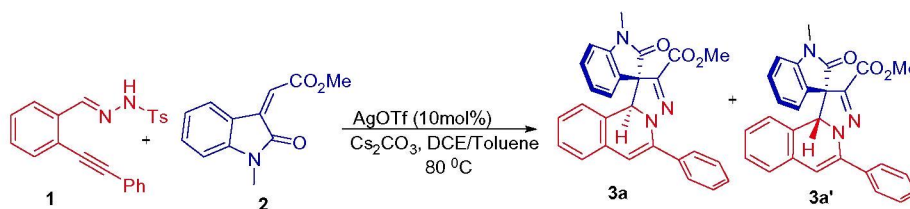
Robert Wells, Maria Moccia, Mauro F. A. Adamo\*



### A novel and diastereoselective construction of *H*-pyrazolo[3,2-*a*]isoquinoline fused spirooxindoles via [3+2] cycloaddition

pp 806–810

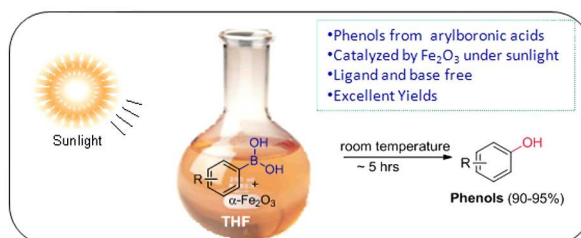
Panneerselvam Yuvaraj, Boreddy S. R. Reddy\*



### Ligand- and base-free synthesis of phenols by rapid oxidation of arylboronic acids using iron(III) oxide

pp 811–814

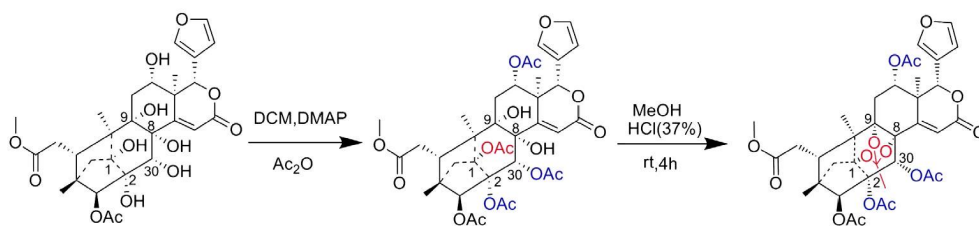
Sanghapal D. Sawant\*, Abhinandan D. Hudwekar, K. A. Aravinda Kumar, Vunnam Venkateswarlu, Parvinder Pal Singh, Ram A. Vishwakarma\*



**Exploration of possible biosynthetic origin of 1/8/9-orthoester moiety in phragmalins**

pp 815–817

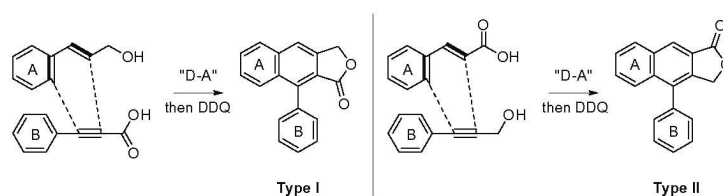
Sheng-Mou Hu, Jun Luo, Lei Yang\*, Ling-Yi Kong\*



**Regioselective route for aryl naphthalene lactones: convenient synthesis of taiwanin C, justicidin E, and daurinol**

pp 818–820

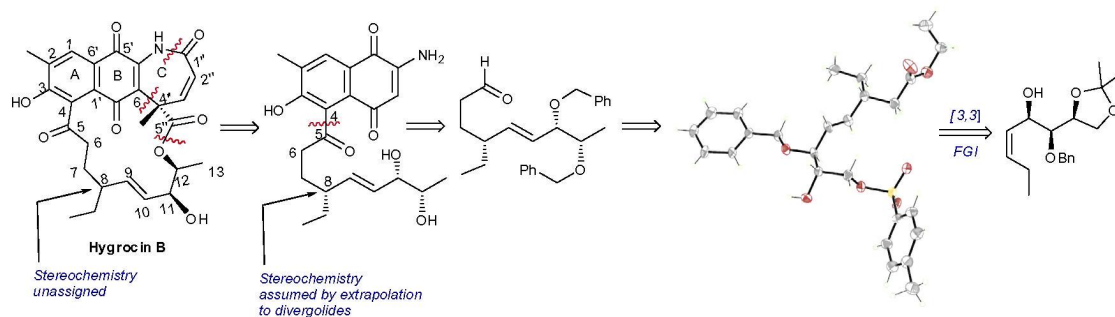
Ju-Eun Park, Juyeun Lee, Seung-Yong Seo\*, Dongyun Shin\*



**Studies towards the total synthesis of hygrocins A and B**

pp 821–825

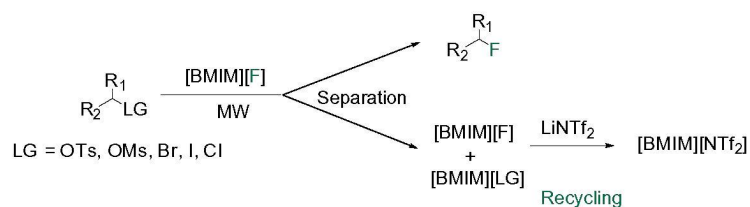
Sivappa Rasapalli\*, Gopalakrishna Jarugumilli, Gangadhara Rao Yarrapothu, Hamza Ijaz, James A. Golen, Paul G. Williard



**Solvent free nucleophilic introduction of fluorine with [bmim][F]**

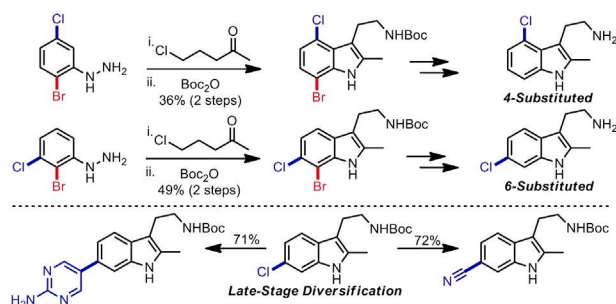
pp 826–829

Sébastien Bouvet, Bruce Pégot\*, Jérôme Marrot, Emmanuel Magnier\*



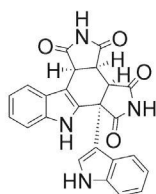
**Syntheses of 4-, 5-, 6-, and 7-substituted tryptamine derivatives and the use of a bromine atom as a protecting group** pp 830–833

Olivier René\*, Benjamin P. Fauber


**Synthesis of dipyrrolo[3,4-*a*:3,4-*c*]carbazoles: new kinase inhibitors**

pp 834–837

Elisabeth Pereira, Ali Youssef, Malika El-Ghozzi, Daniel Avignant, Jennifer Bain, Michelle Prudhomme, Fabrice Anizon\*, Pascale Moreau\*

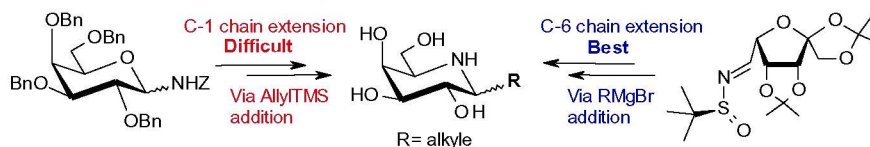


Compound (+/-)-4

IC<sub>50</sub> Chk1 = 3.0 μM  
 IC<sub>50</sub> Pim-1 = 2.2 μM  
 IC<sub>50</sub> Pim-3 = 0.31 μM

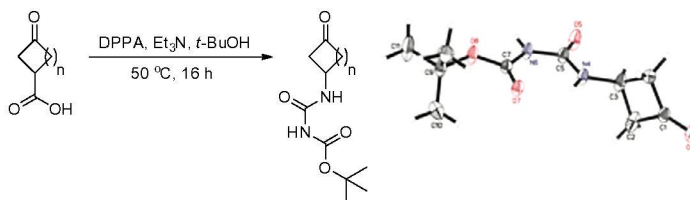
**Stereoselective synthesis of 1-*C*-alkyl iminogalactitol derivatives, potential chaperones for galactosidase-linked LSDs: a real challenge**

Anna Biela-Banaś, Estelle Gallienne, Sophie Front, Olivier R. Martin\*


**Boc-protected 1-(3-oxocycloalkyl)ureas via a one-step Curtius rearrangement: mechanism and scope**

pp 842–844

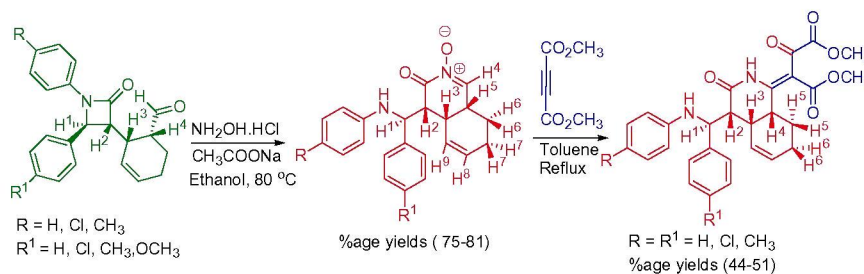
Xianyu Sun, Rachita Rai, Jeffrey R. Deschamps, Alexander D. MacKerell Jr., Alan I. Faden, Fengtian Xue\*



**Single pot diastereoselective synthesis of six membered cyclic (*E*)-*endo*-aldonitrones via intramolecular cyclization of  $\omega$ -alkenyl oximes**

pp 845–848

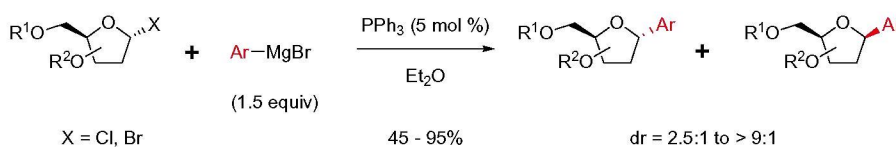
Vishu Mehra, Vipin Kumar\*



**Triphenylphosphine: a catalyst for the synthesis of C-aryl furanosides from furanosyl halides**

pp 849–852

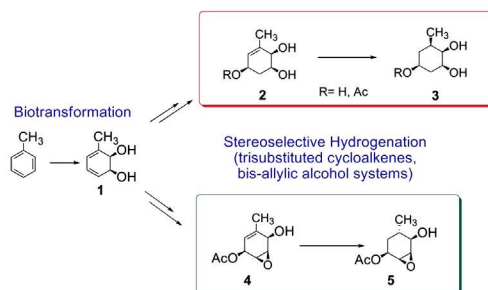
Lionel Nicolas, Patrick Angibaud, Ian Stansfield, Lieven Meerpoel, Sébastien Reymond\*, Janine Cossy\*



**Stereoselective hydrogenation of methylcyclohex-2-ene-1,4-diols used in the synthesis of ampelomins and deoxy-carbasugars**

pp 853–856

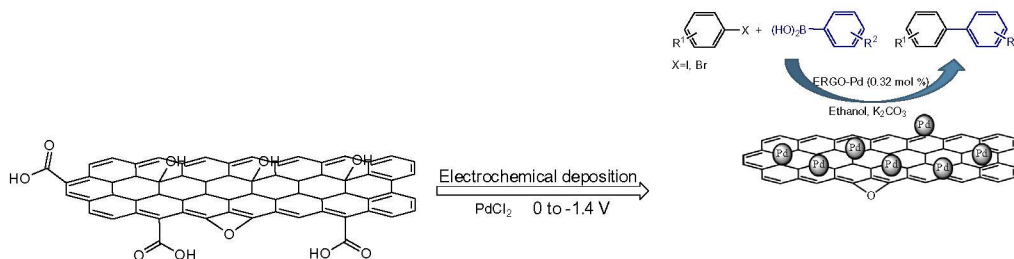
María Eugenia Lagreca, Ignacio Carrera, Gustavo A. Seoane, Margarita Broveto\*



**Facile approach to the electrochemical synthesis of palladium-reduced graphene oxide and its application for Suzuki coupling reaction**

pp 857–860

Suresh S. Shendage, Abhilash S. Singh, Jayashree M. Nagarkar\*



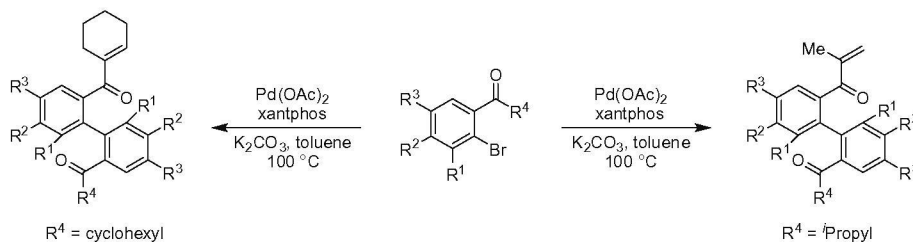
Electrochemically codeposited palladium nanoparticles (Pd NPs) and reduced graphene oxide (ERGO-Pd) were used as catalyst for Suzuki cross coupling reactions. The mean particle size of Pd was found to be  $5.7 \pm 1.8$  nm. The ERGO-Pd catalyst demonstrated excellent catalytic activity and recyclability for Suzuki cross coupling reactions. The remarkable reactivity of the ERGO-Pd catalyst toward cross-coupling reactions is attributed to the high degree of the dispersion of Pd NPs on reduced graphene oxide with narrow size distribution from 3 to 9 nm.



**Formation of bi-aryls via a domino palladium catalysis**

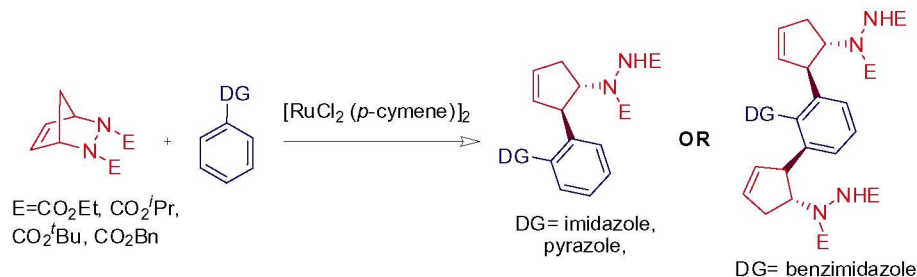
pp 861–864

J. Krishna, A. Gopi Krishna Reddy, G. Satyanarayana\*

**Ruthenium catalyzed desymmetrization of diazabicyclic olefins to access heteroaryl substituted cyclopentenes through C–H activation of phenazoles**

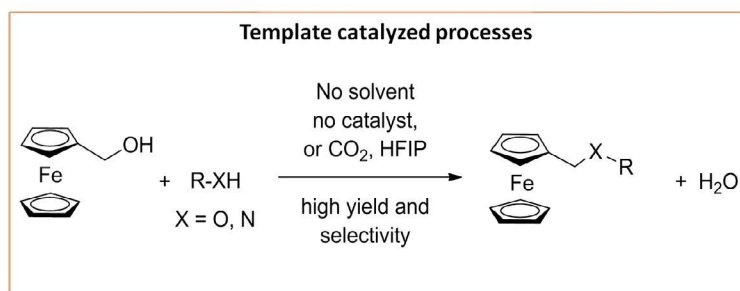
pp 865–868

P. S. Aparna\*, B. Prabha, Praveen Prakash, E. Jijy, R. Luxmi Varma, K. V. Radhakrishnan\*

**New examples of template catalysis based processes: glycerol-like units as efficient promoters for dehydrative nucleophilic substitutions of ferrocenylmethanol**

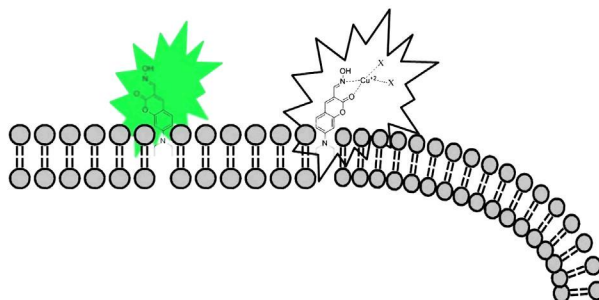
pp 869–872

Suresh Udhavrao Shisodia, Sergio Auricchio, Attilio Citterio, Marco Grassi, Roberto Sebastiano\*

**A coumarinylaldehyde as a specific sensor for Cu<sup>2+</sup> and its biological application**

pp 873–876

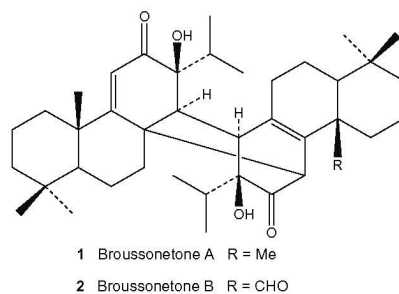
Olimpo García-Beltrán\*, Bruce K. Cassels, Natalia Mena, Marco T. Nuñez, Osvaldo Yañez, Julio Caballero



**Two novel abietane dimers from transformed root cultures of *Salvia broussonetii***

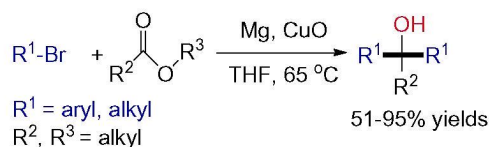
pp 877–879

Braulio M. Fraga\*, Carmen E. Díaz, Matías López-Rodríguez

**A simple and efficient copper oxide-catalyzed Barbier–Grignard reaction of unactivated aryl or alkyl bromides with ester**

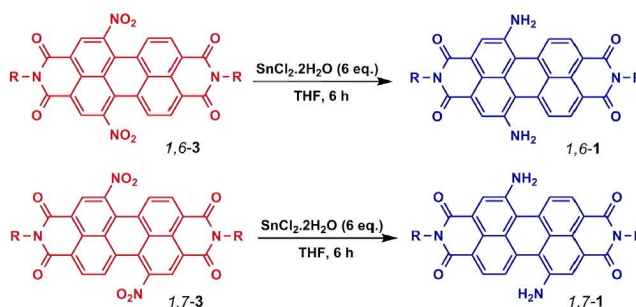
pp 880–883

Fei Gao, Xiang-Jun Deng, Yu Tang\*, Jin-Peng Tang, Jun Yang, Yuan-Ming Zhang\*

**1,6- and 1,7-regioisomers of dinitro- and diamino-substituted perylene bisimides: synthesis, photophysical and electrochemical properties**

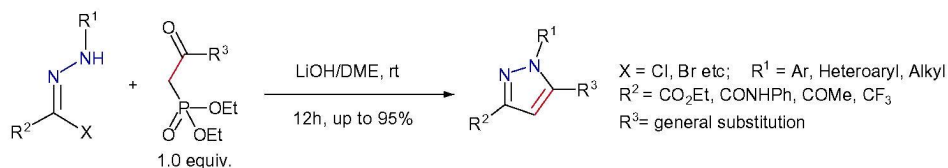
pp 884–888

Hsing-Yang Tsai, Che-Wei Chang, Kew-Yu Chen\*

**A new efficient synthesis of pyrazoles from hydrazoneyl halides and  $\beta$ -oxophosphonates**

pp 889–892

Aixue Sun, Jia-Hai Ye\*, Haitao Yu, Wenchao Zhang, Xiaolong Wang\*

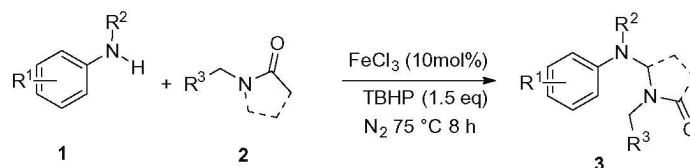




**FeCl<sub>3</sub> catalyzed sp<sup>3</sup> C–H amination: synthesis of aminals with arylamines and amides**

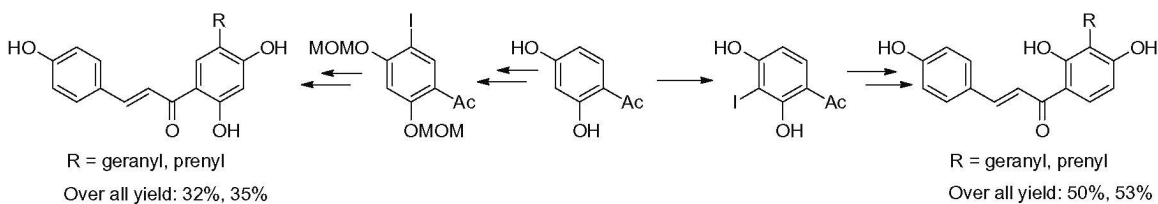
pp 893–896

Manman Sun, Tianshui Zhang, Weiliang Bao\*

**Concise synthesis of prenylated and geranylated chalcone natural products by regioselective iodination and Suzuki coupling reactions**

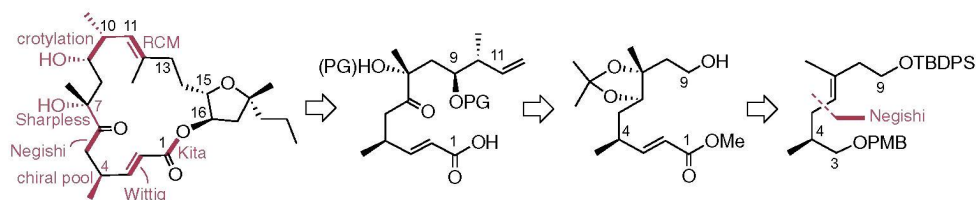
pp 897–899

Haomeng Wang, Zhihong Yan, Yanan Lei, Kai Sheng, Qingwei Yao, Kui Lu\*, Peng Yu\*

**Synthesis of amphidinolide Y precursors**

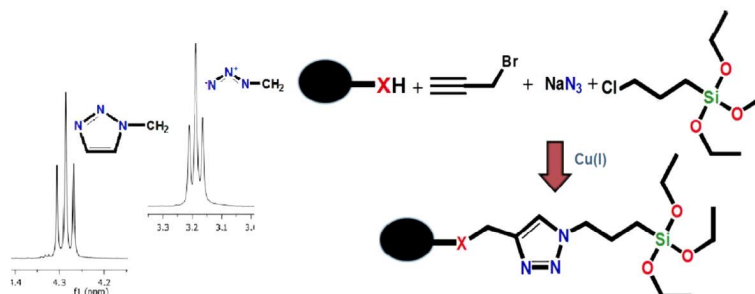
pp 900–902

Laura Mola, Anna Olivella, Fèlix Urpí\*, Jaume Vilarrasa\*

**Synthesis of polyfunctional triethoxysilanes by 'click silylation'**

pp 903–909

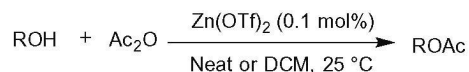
Gurjaspreet Singh\*, Satinderpal Singh Mangat, Jandeep Singh, Aanchal Arora, Ramesh K. Sharma



**Zinc triflate catalyzed acylation of alcohols, phenols, and thiophenols**

pp 910–912

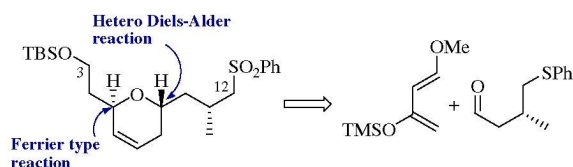
N. Uday Kumar, B. Sudhakar Reddy, V. Prabhakar Reddy, Rakeshwar Bandichhor\*



**Stereoselective synthesis of the C3–C12 subunit of laulimalide**

pp 913–915

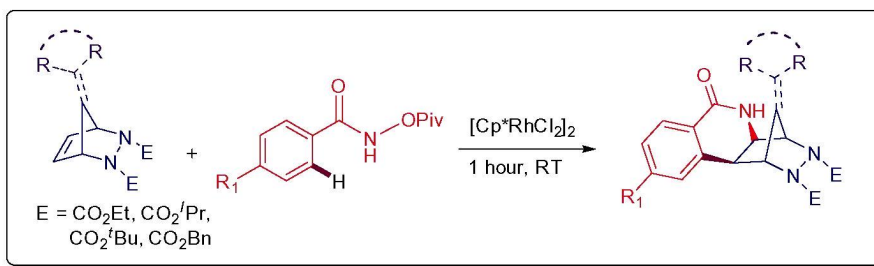
Sadagopan Raghavan, Pradip Kumar Samanta\*



**Rhodium(III) catalyzed synthesis of isoquinolone fused azabicycles through C–H activation of *N*-pivaloyloxy benzamides**

pp 916–920

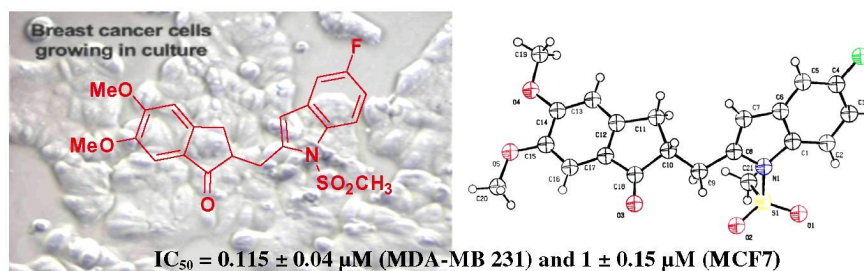
Praveen Prakash, E. Jijy, P. S. Aparna, S. Viji, K. V. Radhakrishnan\*



**Synthesis of indole based novel small molecules and their *in vitro* anti-proliferative effects on various cancer cell lines**

pp 921–926

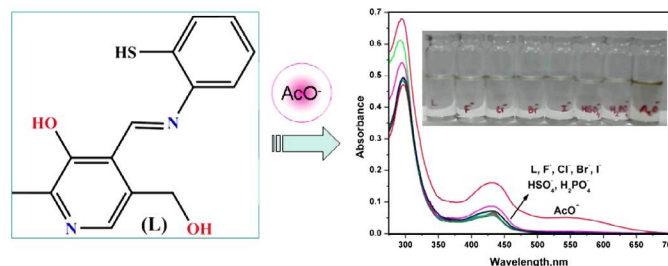
Balakrishna Dulla, E. Sailaja, Upendar Reddy CH, Madhu Aeluri, Arunasree M. Kalle, S. Bhavani, D. Rambabu, M. V. Basaveswara Rao\*, Manojit Pal\*



**Vitamin B<sub>6</sub> cofactor derived chemosensor for the selective colorimetric detection of acetate anions**

pp 927–930

Darshna Sharma, S. K. Ashok Kumar, Suban K. Sahoo\*

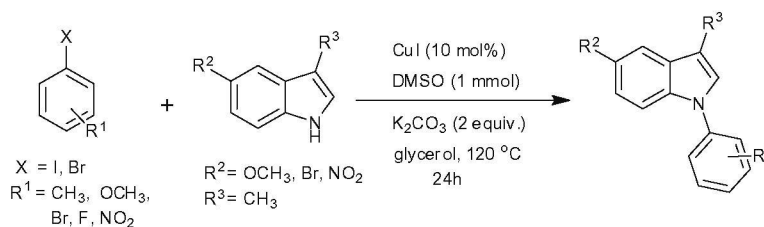


A novel Vitamin B<sub>6</sub> cofactor derived anion sensor **L** for the selective colorimetric detection of acetate has been developed by the Schiff base condensation of pyridoxal and 2-aminothiophenol. The anion recognition ability of the sensor **L** was investigated by spectroscopic (UV–vis and <sup>1</sup>H NMR) and DFT methods.

**N-arylation of indoles with aryl halides using copper/glycerol as a mild and highly efficient recyclable catalytic system**

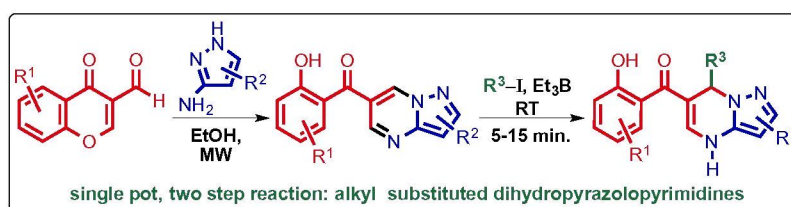
pp 931–935

Dilip Kumar T. Yadav, Sanil S. Rajak, Bhalchandra M. Bhanage\*

**A two-step, single pot procedure for the synthesis of substituted dihydropyrazolo-pyrimidines**

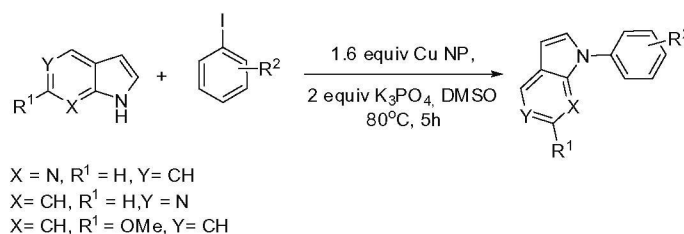
pp 936–940

Jake R. Zimmerman\*, Brian J. Myers, Samantha Bouhall, Allison McCarthy, Olivia Johntony, Madhuri Manpadi

**Ligand-free copper nanoparticle promoted N-arylation of azoles with aryl and heteroaryl iodides**

pp 941–944

Gita Pai, Asoke P. Chattopadhyay\*



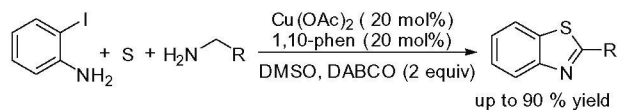
A relatively mild, efficient, and inexpensive method for the nucleophilic aromatic substitution of the N–H heterocycles with various aryl and heteroaryl iodides using copper nanoparticles (Cu-NP) is reported. The coupling reaction has been successfully achieved with moderate to good yields.



**Copper-catalyzed multicomponent reactions of 2-iodoanilines, benzylamines, and elemental sulfur toward 2-arylbenzothiazoles**

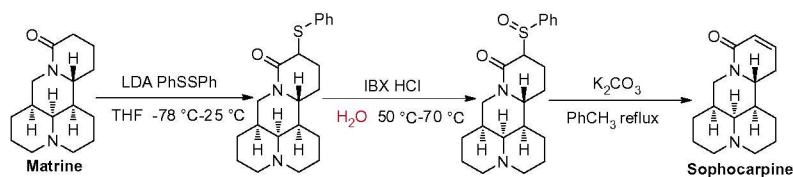
pp 945–949

Rui Wang\*, Yong-liang Ding, Hong Liu, Shu Peng, Jie Ren, Lei Li

**Controllable and efficient oxidation of thioether by 2-iodoxybenzoic acid (IBX) in water: semisynthesis of sophocarpine**

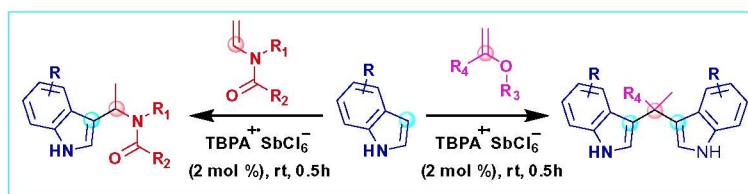
pp 950–953

Chaojie Li, Yuxiu Liu, Qingmin Wang\*

**Triarylamminium salt facilitated Friedel–Crafts reaction of indoles with enamides and vinyl ethers**

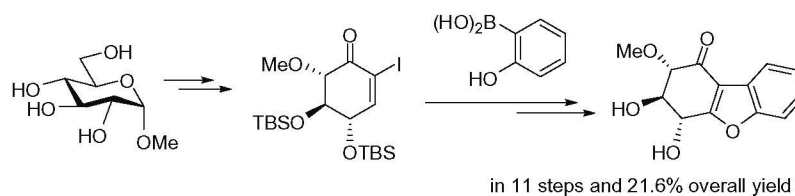
pp 954–958

Congde Huo\*, Lisheng Kang, Xiaolan Xu, Xiaodong Jia, Xicun Wang, Haisheng Xie, Yong Yuan

**Total synthesis of ribisin A**

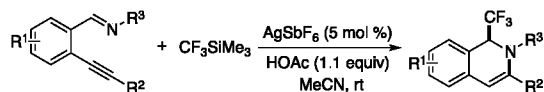
pp 959–961

Chaoli Zhang, Jun Liu, Yuguo Du\*



**Generation of 1-(trifluoromethyl)-1,2-dihydroisoquinolines via a silver(I)-catalyzed reaction of 2-alkynylaryl aldimine** pp 962–964

Xianbo Wang, Guanyinsheng Qiu, Ling Zhang\*, Jie Wu\*



\*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<sup>®</sup>. Full text available on ScienceDirect<sup>®</sup>

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