

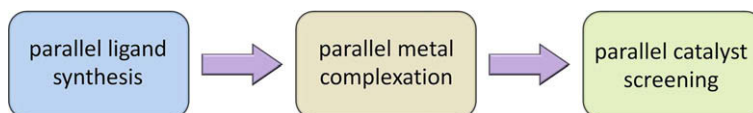
Tetrahedron Letters Vol. 50, No. 24, 2009

Contents

Communications

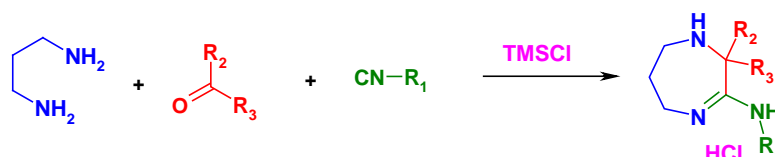
Use of a silicon carbide multi-well plate in conjunction with microwave heating for rapid ligand synthesis, formation of palladium complexes, and catalyst screening in a Suzuki coupling pp 2851–2853

Keri B. Avery, William G. Devine, Chad M. Kormos, Nicholas E. Leadbeater \*



Multicomponent approach to unique 1,4-diazepine-2-amines pp 2854–2856

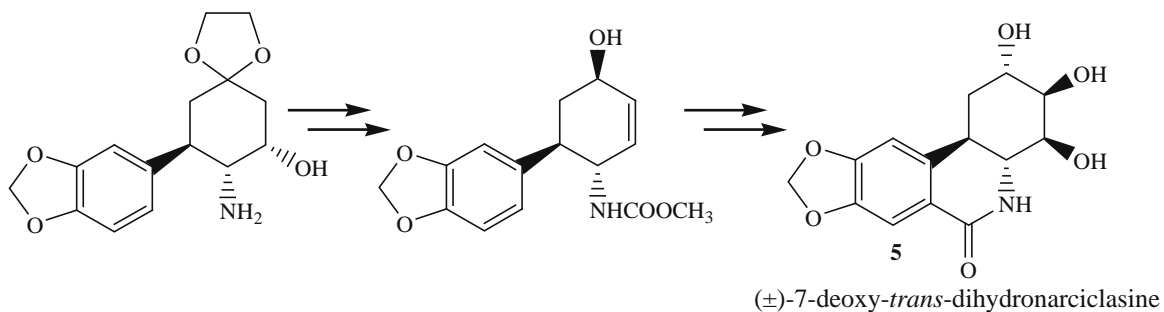
Volodymyr Kysil \*, Alexander Khvat, Sergey Tsiurulnikov, Sergey Tkachenko, Alexandre Ivachtchenko



Isocyanide-based multicomponent reaction (IMCR) has been developed as an efficient strategy for the 1,4-diazepine-2-amines synthesis.

Stereoselective total synthesis of (±)-7-deoxy-*trans*-dihydronarciclasine, a potent antineoplastic phenanthridone alkaloid pp 2857–2859

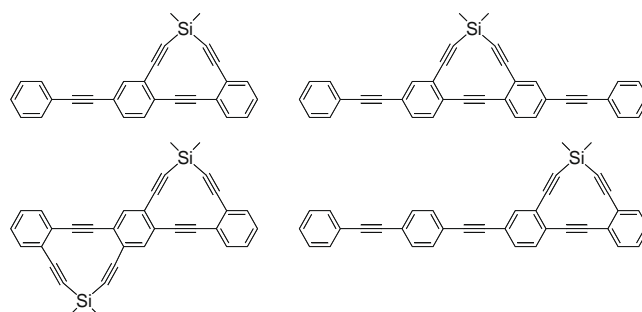
Gábor Szántó, László Hegedűs, Lenke Mattyasovszky, András Simon, Ákos Simon, István Kádas \*



**Synthesis and spectroscopic study of silacyclyne-substituted phenyleneethynylenes**

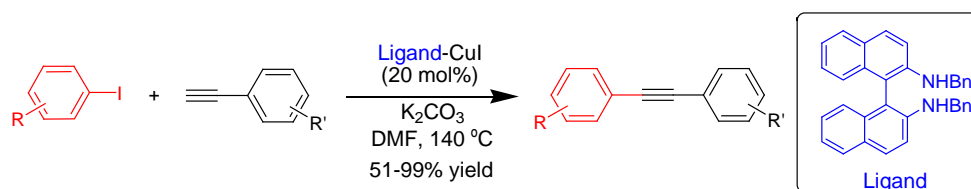
pp 2860–2864

Guoliang Mao, Akihiro Orita\*, Daisuke Matsuo, Takayoshi Hirate, Tetsuo Iwanaga, Shinji Toyota, Junzo Otera\*


**An efficient copper(I) complex catalyzed Sonogashira type cross-coupling of aryl halides with terminal alkynes**

pp 2865–2869

K. G. Thakur, E. A. Jaseer, Ajay B. Naidu, Govindasamy Sekar\*

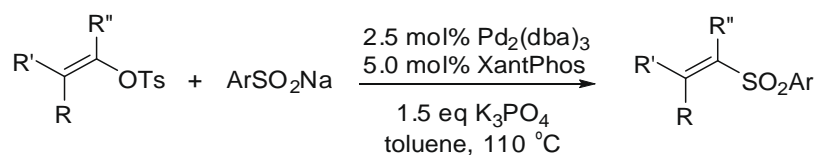


A wide range of arylated alkynes are synthesized from the corresponding aryl halides and terminal alkynes by Sonogashira type cross-coupling reactions through C(aryl)–C bond formation in the presence of a catalytic amount of *N,N'*-dibenzyl BINAM–CuI complex under mild reaction conditions.

**Palladium-catalyzed coupling of vinyl tosylates with arylsulfinate salts**

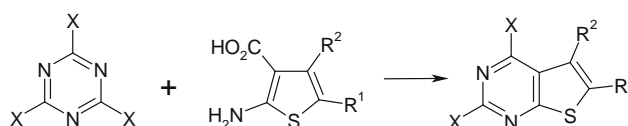
pp 2870–2873

Diana C. Reeves\*, Sonia Rodriguez, Heewon Lee, Nizar Haddad, Dhileep Krishnamurthy, Chris H. Senanayake


**A tandem decarboxylation and inverse electron-demand Diels–Alder reaction of amino-thiophenecarboxylic acids with 1,3,5-triazines**

pp 2874–2876

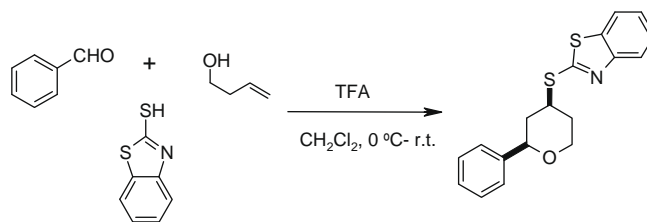
Qun Dang\*, Edmund Carruli, Feng Tian, Francis W. Dang, Tony Gibson, Wenyu Li, Huachen Bai, Michael Chung, Scott J. Hecker



**Three-component synthesis of 2-aryl-4-arylthio-tetrahydro-2H-pyrans via the Prins-cyclization**

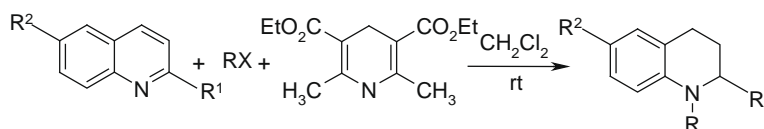
pp 2877–2880

J. S. Yadav \*, B. V. Subba Reddy, Y. Jayasudhan Reddy, N. Sivasankar Reddy

**A facile one-pot synthesis of N-substituted tetrahydroquinolines**

pp 2881–2884

Thelagathoti Hari Babu, Gnanamani Shanthi, Paramasivan T. Perumal \*

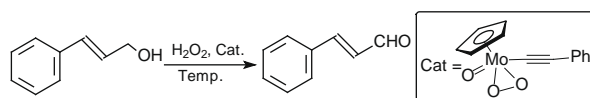


An uncatalyzed one-pot synthesis of N-substituted tetrahydroquinolines was achieved in good yields by the three-component reaction of quinoline and alkyl/acyl halides with Hantzsch dihydropyridine ester under mild reaction conditions.

**Selective oxidation of aromatic primary alcohols to aldehydes using molybdenum acetylide oxo-peroxo complex as catalyst**

pp 2885–2888

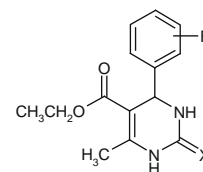
Ankush V. Biradar, Mohan K. Dongare, Shubhangi B. Umbarkar \*

**An improved synthesis of Biginelli-type compounds via phase-transfer catalysis**

pp 2889–2892

Bahar Ahmed \*, Riaz A. Khan, Habibullah, Manoj Keshari

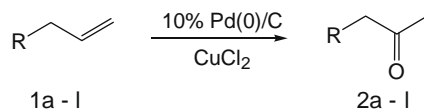
3,4-Dihydropyrimidin-2(1H)-one, 3,4-dihydropyrimidin-2(1H)-thione, and 3,4-dihydropyrimidin-2(1H)-imine derivatives were synthesized by modified Biginelli reaction from appropriately substituted aromatic aldehyde,  $\beta$ -ketoester and either urea, thiourea or guanidine using tetra-butyl ammonium bromide (TBAB) as catalyst for the first time in time-efficient manner and in near quantitative yields.

X = O ; R = H/n-NO<sub>2</sub>/4-Cl/4-FX = S ; R = [2-OH/OCH<sub>3</sub>/n-Cl/  
n-OCH<sub>3</sub>/N-N(CH<sub>3</sub>)<sub>2</sub>]X = NH ; R = [H/CH<sub>3</sub>/n-(OCH<sub>3</sub>)<sub>2</sub>/  
n-(OCH<sub>3</sub>)<sub>3</sub>/N-N(CH<sub>3</sub>)<sub>2</sub>]

**Pd(0)/C catalyzed efficient Wacker oxidation of functionalized terminal olefins**

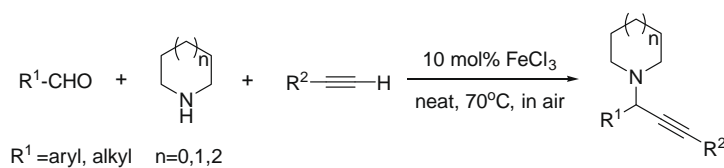
pp 2893–2894

Mukund G. Kulkarni \*, Sharanappa M. Bagale, Mahadev P. Shinde, Dnyaneshwar D. Gaikwad, Ajit S. Borhade, Attrimuni P. Dhondge, Sanjay W. Chavhan, Yunnus B. Shaikh, Vijay B. Ningdale, Mayur P. Desai, Deekshaputra R. Birhade \*

**Iron-catalyzed three-component coupling of aldehyde, alkyne, and amine under neat conditions in air**

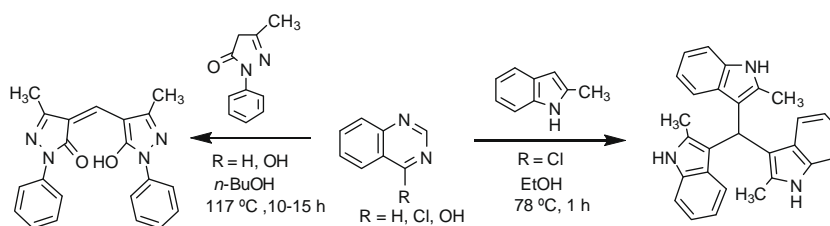
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Wen-Wen Chen, Rene V. Nguyen, Chao-Jun Li \*

**Specific features of the reactions of quinazoline and its 4-hydroxy and 4-chloro substituted derivatives with C-nucleophiles**

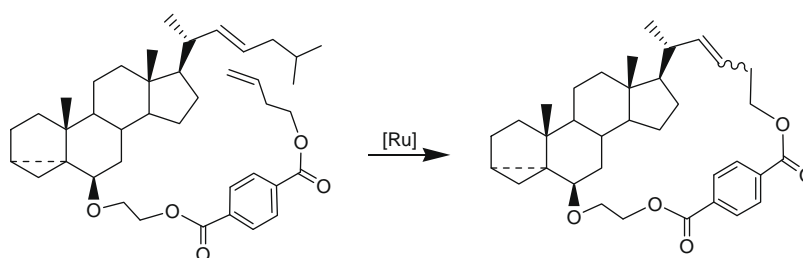
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Yuri A. Azev \*, Sergey V. Shorshnev, Boris V. Golomolzin

**Metathesis reactions of  $\Delta^{22}$ -steroids**

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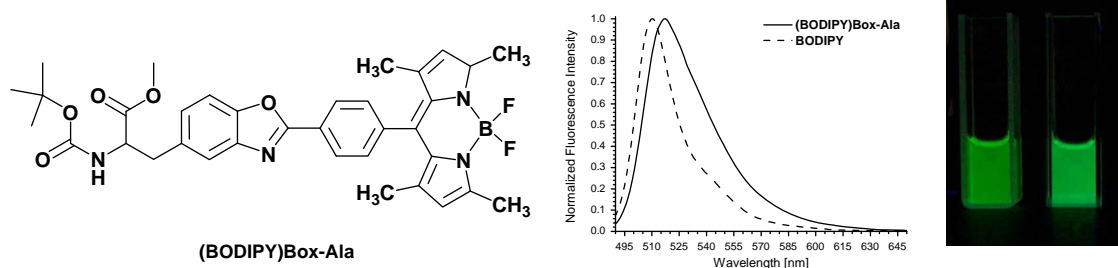
Dorota Czajkowska, Jacek W. Morzycki \*



**Synthesis and photophysical properties of a new amino acid possessing a BODIPY moiety**

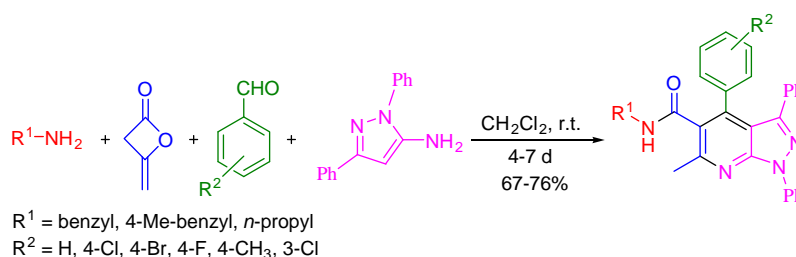
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Katarzyna Guzow \*, Kinga Kornowska, Wiesław Wiczak

**Synthesis of fully substituted pyrazolo[3,4-*b*]pyridine-5-carboxamide derivatives via a one-pot four-component reaction**

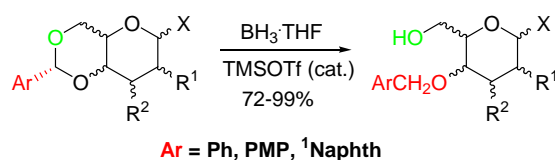
pp 2911–2913

Ahmad Shaabani \*, Mozhdeh Seyyedhamzeh, Ali Maleki, Maryam Behnam, Fahimeh Rezazadeh

**Regio- and chemoselective reductive cleavage of 4,6-*O*-benzylidene-type acetals of hexopyranosides using  $\text{BH}_3 \cdot \text{THF} \cdot \text{TMSOTf}$** 

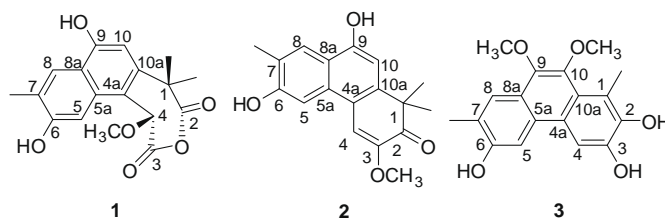
pp 2914–2916

Katalin Daragics, Péter Fügedi \*

Benzylidene-type cyclic acetals of carbohydrates undergo efficient reductive ring opening using  $\text{BH}_3 \cdot \text{THF}$  and a catalytic amount of TMSOTf to give benzyl-type ethers regioselectively.**New phenanthrenes from *Trigonostemon lili* Y.T. Chang**

pp 2917–2919

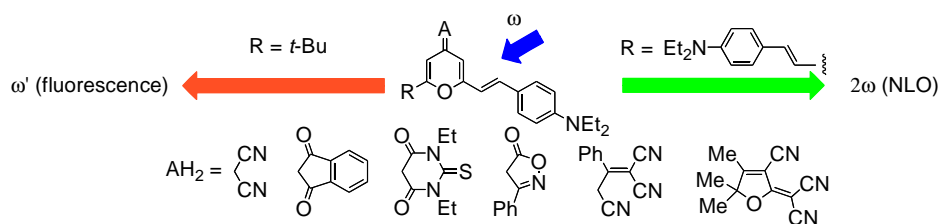
Xu-Jia Hu, Yue-Hu Wang, Ling-Yi Kong, Hong-Ping He, Suo Gao, Hai-Yang Liu, Jian Ding, Hua Xie, Ying-Tong Di \*, Xiao-Jiang Hao \*



### New one- and two-dimensional 4*H*-pyranylidene NLO-phores

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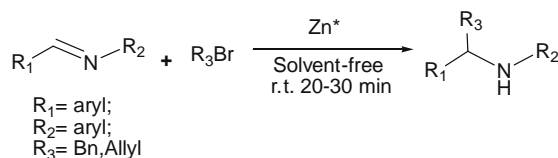
Raquel Andreu, Laura Carrasquer, Javier Garín\*, María Jesús Modrego, Jesús Orduna, Raquel Alicante, Belén Villacampa, Magali Allain



### Solvent-free allylation and benzylation of aldimines mediated by zinc powder

pp 2925–2928

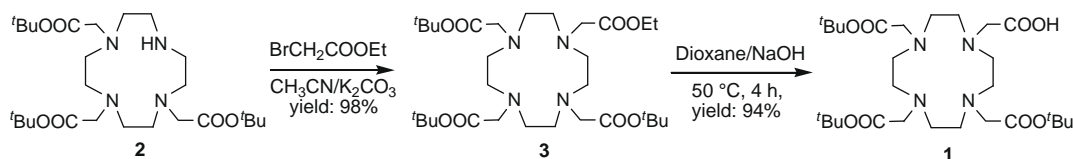
Yumei Zhang\*, Tingli Yan, Wei Cheng, Jianming Zuo, Weijie Zhao



### Facile synthesis of 1-(acetic acid)-4,7,10-tris(*tert*-butoxycarbonylmethyl)-1,4,7,10-tetraazacyclododecane: a reactive precursor chelating agent

pp 2929–2931

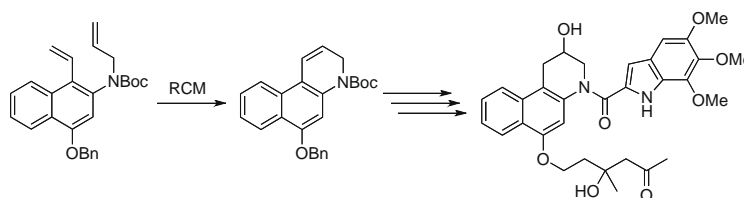
Cong Li\*, Paul Winnard Jr., Zaver M. Bhujwalla\*



### Studies toward the duocarmycin prodrugs for the antibody prodrug therapy approach

pp 2932–2935

Lian-Sheng Li, Subhash C. Sinha\*



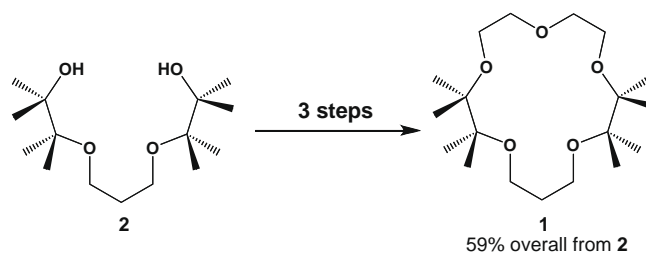
A tricyclic intermediate was prepared using the ring-closing metathesis approach, which serves as a precursor to the synthesis of CBI analogs and their prodrugs, including one designed for the aldolase Ab 38C2-catalyzed activation.



**2,2,3,3,11,11,12,12-Octamethyl-1,4,7,10,13-pentaoxacyclohexadecane: improved synthesis and crystal structure with NaSCN**

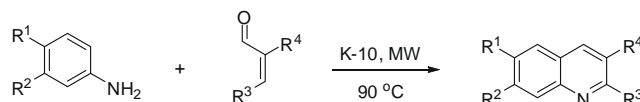
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Fanny Loustau-Chartez, Rachel M. Robeson, Radu Custelcean, Richard A. Sachleben, Peter V. Bonnesen \*

**Synthesis of quinolines by a solid acid-catalyzed microwave-assisted domino cyclization–aromatization approach**

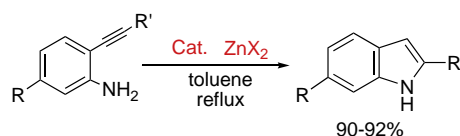
pp 2939–2942

Omar De Paolis, Liliana Teixeira, Béla Török \*

R<sup>1</sup> = H, CH<sub>3</sub>, CH<sub>3</sub>CH<sub>2</sub>, F, Cl, Br, CH<sub>3</sub>OR<sup>2</sup> = H, CH<sub>3</sub>, ClR<sup>3</sup> = C<sub>6</sub>H<sub>5</sub>, 2-NO<sub>2</sub>-C<sub>6</sub>H<sub>4</sub>, 2-CH<sub>3</sub>O-C<sub>6</sub>H<sub>4</sub>, 4-CH<sub>3</sub>O-C<sub>6</sub>H<sub>4</sub>, 4-NO<sub>2</sub>-C<sub>6</sub>H<sub>4</sub>R<sup>4</sup> = H, CH<sub>3</sub>**Palladium-free zinc-mediated hydroamination of alkynes: efficient synthesis of indoles from 2-alkynylaniline derivatives**

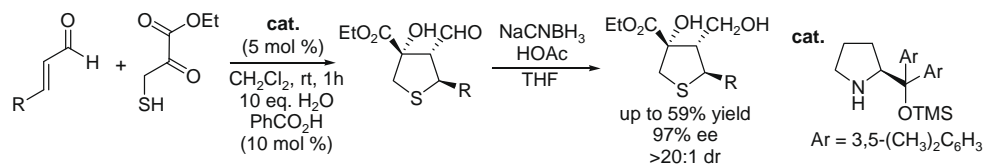
pp 2943–2945

Kentaro Okuma \*, Jun-ichi Seto, Ken-ichi Sakaguchi, Saori Ozaki, Noriyoshi Nagahora, Kosei Shioji

**Enantioselective organocatalytic synthesis of highly functionalized tetrahydrothiophenes by a Michael-aldol cascade reaction**

pp 2946–2948

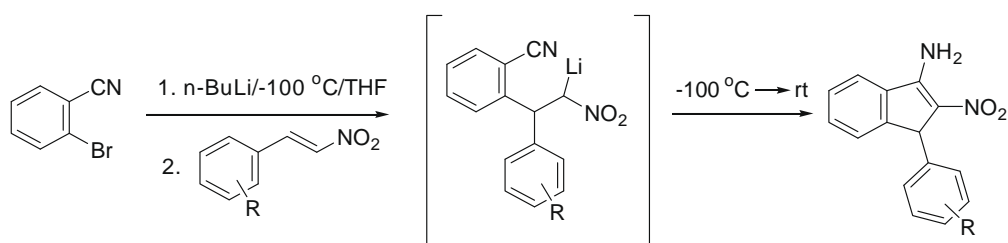
Guangshun Luo, Shilei Zhang, Wenhua Duan \*, Wei Wang \*



**$\beta$ -Nitrostyrenes as electrophiles in Parham cyclization chemistry: reaction with *o*-lithiobenzonitrile**

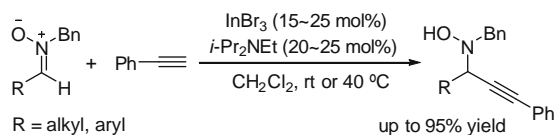
pp 2949–2951

Adam J. Clarke, David A. Hunt \*

 **$\text{InBr}_3$ -catalyzed direct alkylation of nitrones with terminal alkynes: an efficient synthesis of *N*-hydroxypropargyl amines**

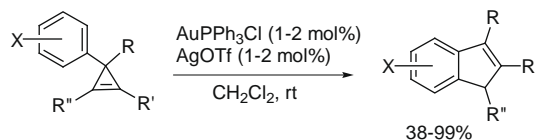
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Du-Ming Ji, Ming-Hua Xu \*

**Au-catalyzed isomerization of cyclopropenes: a novel approach to indene derivatives**

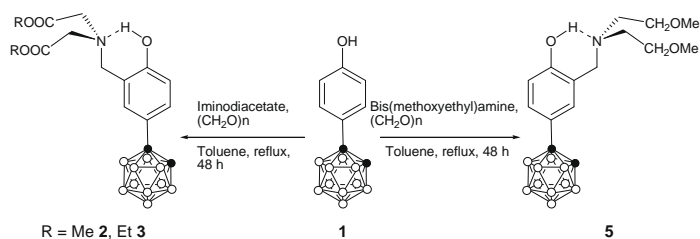
pp 2956–2959

Changkun Li, Yi Zeng, Jianbo Wang \*

**New types of potential BNCT agents, *o*-carboranyl aminoalcohols**

pp 2960–2963

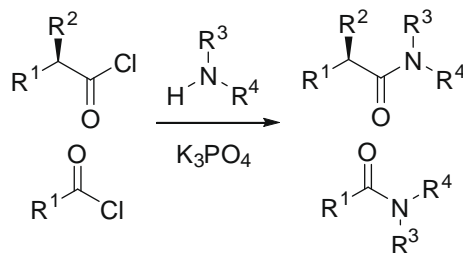
Chai-Ho Lee \*, Guo Fan Jin, Jung Gun Joung, Jong-Dae Lee, Hyun Seung Ban, Hiroyuki Nakamura, Jung-Keun Cho, Sang Ook Kang \*





**An improved method of amide synthesis using acyl chlorides**

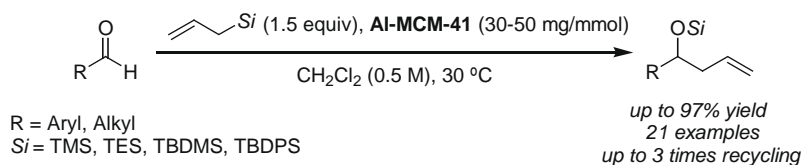
pp 2964–2966

Li Zhang <sup>\*</sup>, Xiao-jun Wang, Jing Wang, Nelu Grinberg, DhileepKumar Krishnamurthy, Chris H. Senanayake

A simple, mild, and highly efficient condition for amide synthesis from acyl chlorides has been developed to minimize hydrolysis, racemization, and other side reactions. This method should expand capabilities in the peptide coupling area.

**Mesoporous aluminosilicate-catalyzed allylation of aldehydes with allylsilanes**

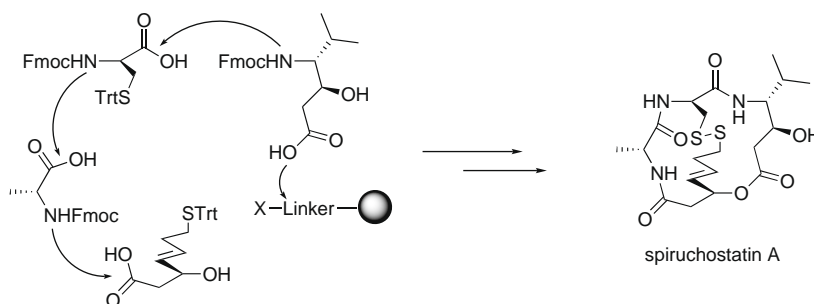
pp 2967–2969

Suguru Ito, Hitoshi Yamaguchi, Yoshihiro Kubota, Masatoshi Asami <sup>\*</sup>

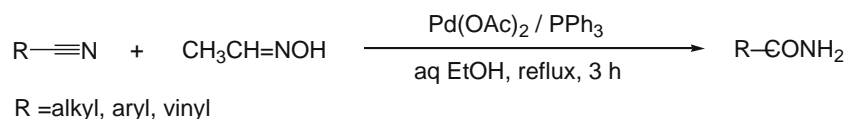
The allylation of both aromatic and aliphatic aldehydes with allylsilanes was promoted by mesoporous aluminosilicate (Al-MCM-41) under mild reaction conditions.

**A solid-phase total synthesis of the cyclic depsipeptide HDAC inhibitor spiruchostatin A**

pp 2970–2972

Yusuke Iijima, Asami Munakata, Kazuo Shin-ya, A. Ganesan, Takayuki Doi <sup>\*</sup>, Takashi Takahashi <sup>\*</sup>**An efficient Pd-catalyzed hydration of nitrile with acetaldoxime**

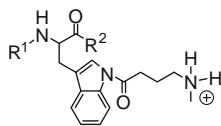
pp 2973–2975

Eun Sun Kim, Hoo Sook Kim, Jae Nyoun Kim <sup>\*</sup>

**A new protecting group for tryptophan in solid-phase peptide synthesis which protects against acid-catalyzed side reactions and facilitates purification by HPLC**

pp 2976–2978

Karolina Wahlström, Anders Undén \*

R<sup>1</sup> and R<sup>2</sup> = peptide chain

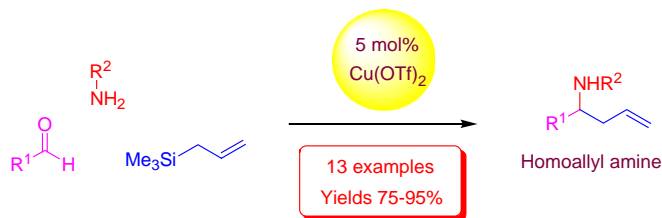
A new side-chain protecting group for tryptophan in Fmoc solid-phase peptide synthesis is reported which increases the solubility of synthetic peptides during the purification step. After purification, the protecting group is cleaved via an intramolecular cyclization reaction at slightly alkaline pH.



**A general and mild copper-catalyzed three-component synthesis of protected homoallyl amines**

pp 2979–2981

Kalyan Kumar Pasunooti, Min Li Leow, Seenuvasan Vedachalam, Bala Kishan Gorityala, Xue-Wei Liu \*



**OTHER CONTENT**

**Corrigendum**

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\*Corresponding author

Supplementary data available via ScienceDirect

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