

Tetrahedron Letters Vol. 50, No. 48, 2009

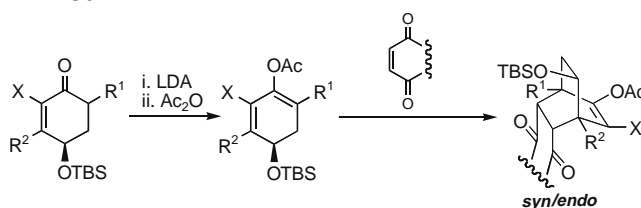
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COMMUNICATIONS

Asymmetric [4+2] cycloadditions employing 1,3-dienes derived from (*R*)-4-*t*-butyldimethyl-silyloxy-2-cyclohexen-1-one

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Zhengmao Hua, Lei Chen, Yan Mei, Zhendong Jin *

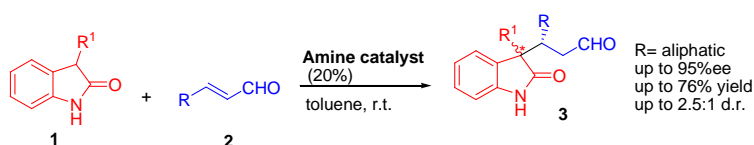


1,3-Dienes derived from (*R*)-4-*t*-butyldimethylsilyloxy-2-cyclohexen-1-one react with activated dienophiles to form predominately (or sometimes exclusively) *syn/endo* products. These controlled [4+2] cycloadditions increase the asymmetric complexity from one asymmetric center in the starting material to five asymmetric centers in the products in a single step, and provide a powerful approach for the asymmetric synthesis of compounds containing the bicyclo[2.2]octanone carbon skeleton.

Enantioselective addition of oxindoles to aliphatic α,β -unsaturated aldehydes

pp 6624–6626

Natalia Bravo, Ignasi Mon, Xavier Companyó, Andrea-Nekane Alba, Albert Moyano *, Ramon Rios *

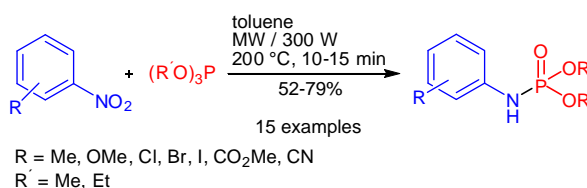


An enantioselective organocatalytic oxindole addition to aliphatic α,β -unsaturated aldehydes is reported. The reaction is catalyzed by simple and commercially available secondary amines yielding the corresponding adducts with moderate yields and diastereoselectivities, and with good enantioselectivities.

Practical and reliable synthesis of dialkyl *N*-arylphosphoramidates with nitroarenes as substrates

pp 6627–6630

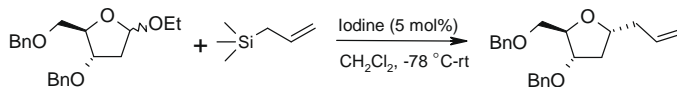
Reda Haggam, Jürgen Conrad, Uwe Beifuss *



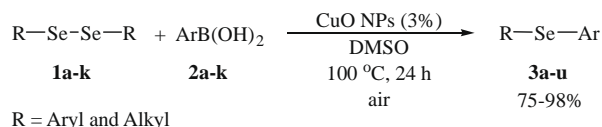
The efficient synthesis of dialkyl *N*-arylphosphoramidates by reaction of nitroarenes with trialkyl phosphites under thermal as well as under microwave conditions is reported.

Highly diastereoselective allylation of lactols and their ethers using molecular iodine

pp 6631–6634

J. S. Yadav^{*}, B. V. Subba Reddy, A. Srinivas Reddy, Ch. Suresh Reddy, S. Satyanarayana Raju**CuO nanoparticles: an efficient and recyclable catalyst for cross-coupling reactions of organic diselenides with aryl boronic acids**

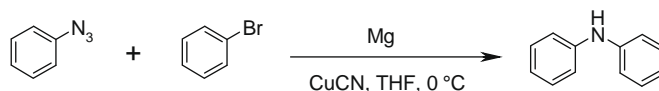
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Diego Alves^{*}, Cayane G. Santos, Márcio W. Paixão, Letiére C. Soares, Diego de Souza, Oscar E. D. Rodrigues^{*}, Antônio L. Braga**Montmorillonite K10 clay-catalyzed synthesis of homoallylic silyl ethers: an efficient and environmentally friendly Hosomi–Sakurai reaction**

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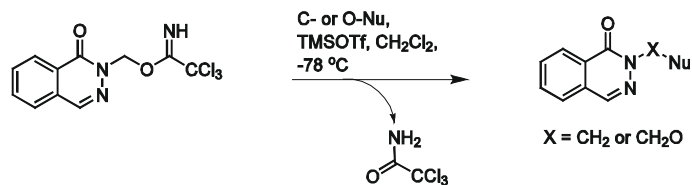
Matthew R. Dintzner^{*}, Yawo A. Mondjinou, Barrett Unger**Addition of aryl cuprates to azides: a novel approach for the synthesis of unsymmetrical diaryl amines**

pp 6642–6645

J. S. Yadav^{*}, B. V. Subba Reddy, Prashant Borkar, P. Janardhan Reddy

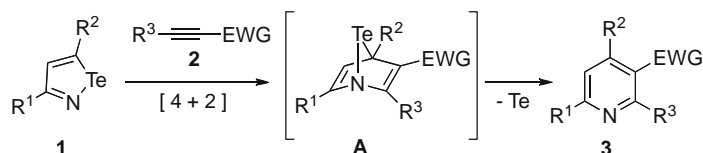
Studying the reactivity of (phthalazin-1(2*H*)-on-2-yl)methyl trichloroacetimidate towards different C- and O-nucleophiles

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Ahmed O. H. El Nezhawy^{*}, Samir T. Gaballah, Mohamed A. A. Radwan

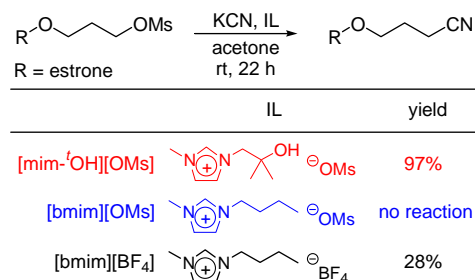
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Kazuaki Shimada^{*}, Yukichi Takata, Yu Osaki, Akiko Moro-oka, Hisashi Kogawa, Maiko Sakuraba, Shigenobu Aoyagi, Yuji Takikawa, Satoshi Ogawa

tert-Alcohol-functionalized imidazolium ionic liquid: catalyst for mild nucleophilic substitution reactions at room temperature

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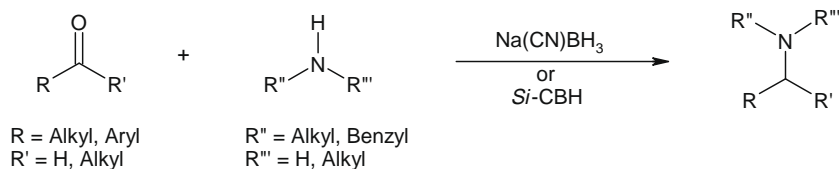
Sandip S. Shinde, Hyung Min Chi, Byoung Se Lee, Dae Yoon Chi^{*}

Tertiary alcohol containing [mim-^tOH][OMs] exhibited excellent phase transfer catalytic activity and good product yield compared to [bmim] salts.



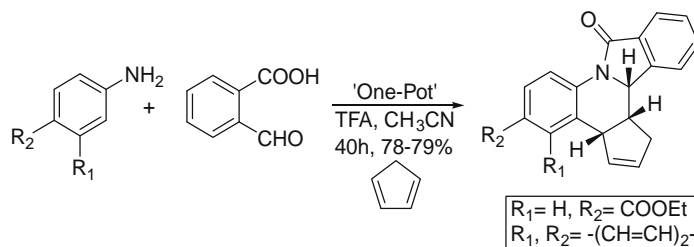
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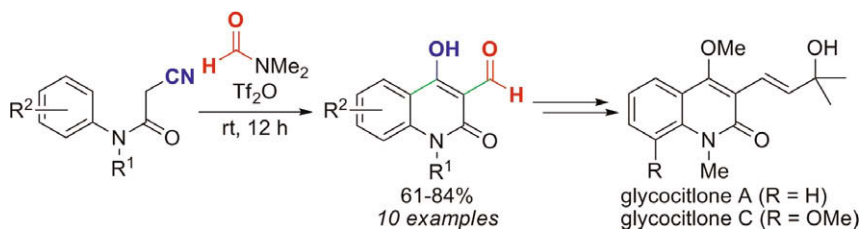
Paolo N. Grenga, Brittany L. Sumbler, François Beland, Ronny Priefer^{*}

One-pot construction of isoindolo[2,1-a]quinoline system

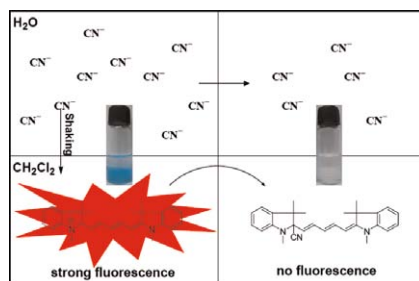
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Shahriar Khadem^{*}, Konstantin A. Udachin, Gary D. Enright, Michael Prakesch, Prabhat Arya**Triflic anhydride-mediated tandem formylation/cyclization of cyanoacetanilides: a concise synthesis of glycoctilone alkaloids**

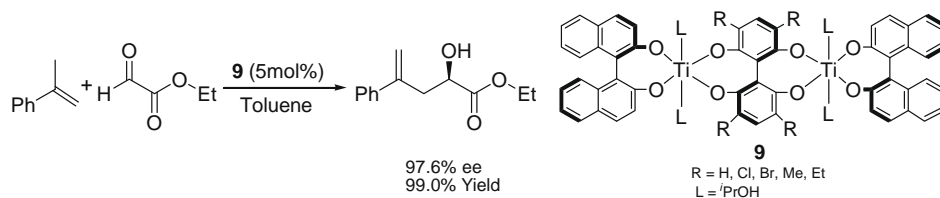
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Yusuke Kobayashi^{*}, Takashi Harayama^{*}**Cyanine dye-based chromofluorescent probe for highly sensitive and selective detection of cyanide in water**

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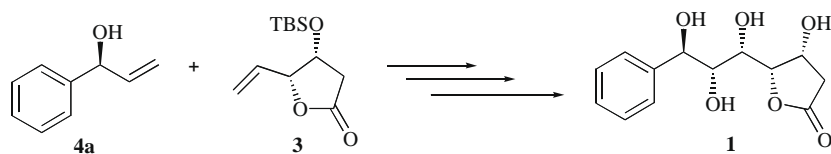
Hao-Tao Niu, Xueliang Jiang, Jiaqi He, Jin-Pei Cheng^{*}**Efficient bimetallic titanium catalyst for carbonyl-ene reaction**

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Fang Fang, Fang Xie, Han Yu, Hui Zhang, Bo Yang, Wanbin Zhang^{*}

Olefin cross-metathesis based approach for the stereoselective total synthesis of (+)-cardibutanolide

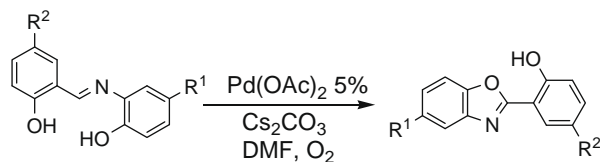
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Palakodety Radha Krishna^{*}, E. Shiva Kumar

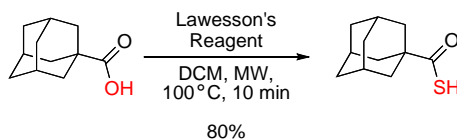
A stereoselective total synthesis of (+)-cardibutanolide is reported.

Efficient synthesis of 2-(2'-hydroxyphenyl)benzoxazole by palladium(II)-catalyzed oxidative cyclization

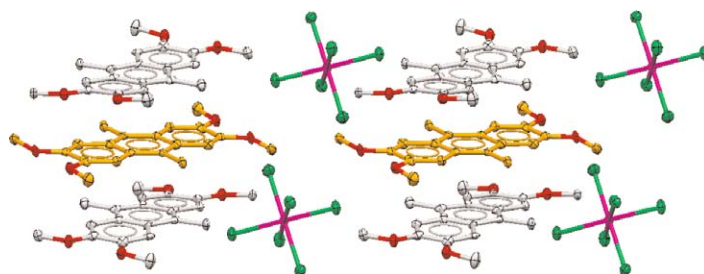
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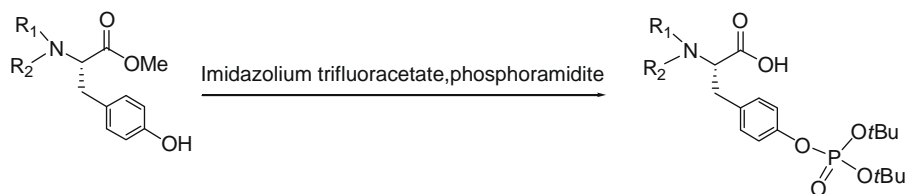
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Matthew J. Modjewski, Ruchi Shukla, Sergey V. Lindeman, Rajendra Rathore^{*}

Efficient synthesis of phosphotyrosine building blocks using imidazolium trifluoroacetate

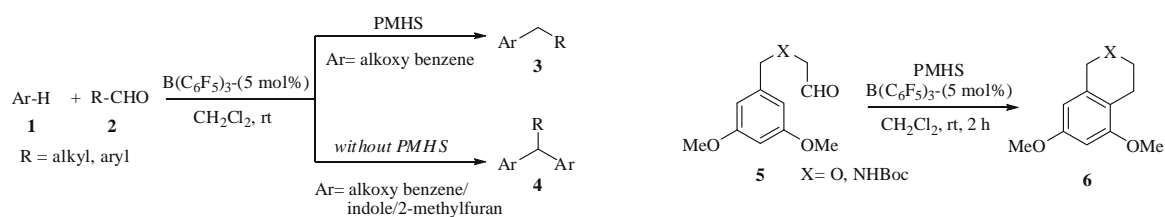
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Cindy Gomez, Jianyong Chen, Shaomeng Wang*

 **$B(C_6F_5)_3$: an efficient catalyst for reductive alkylation of alkoxy benzenes and for synthesis of triarylmethanes using aldehydes**

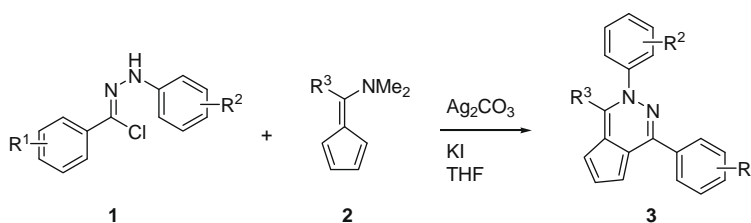
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S. Chandrasekhar*, Sanjida Khatun, G. Rajesh, Ch. Raji Reddy

**Novel 1,3-dipolar cycloadditions of fulvenes and hydrazoneyl chlorides: a facile synthesis of the cyclopenta[d]pyridazines**

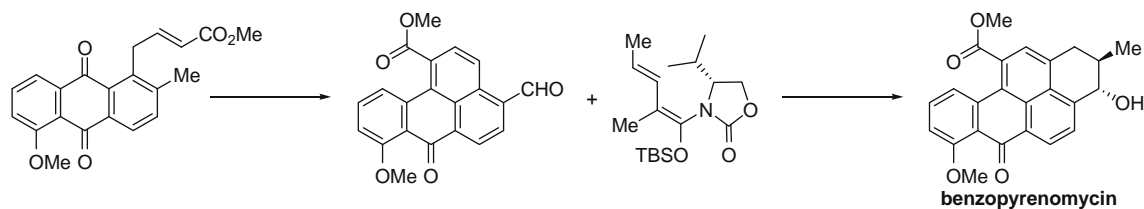
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Kang Jin Lee, Joong-Kwon Choi, Eul Kgun Yum, Sung Yun Cho*

**The first total synthesis and structural determination of benzopyrenomycin**

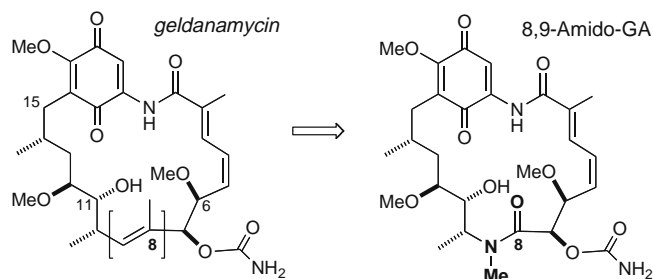
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Seijiro Hosokawa*, Yuki Mukaeda, Ryo Kawahara, Kuniaki Tatsuta*



Synthesis and evaluation of 8,9-amido analogs of geldanamycin

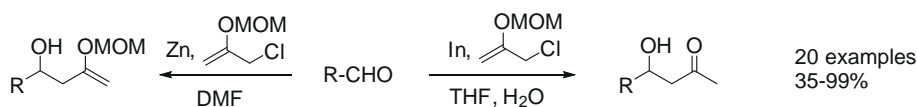
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Merritt B. Andrus^{*}, Yong Wong, Jing Liu, Kristin Beebe, Leonard M. Neckers

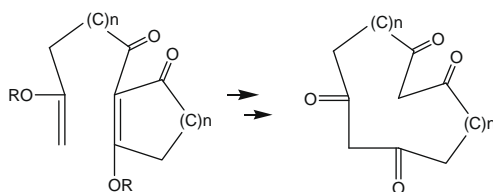
C8,9-Amido isostere analogs of the ansamycin Hsp90 inhibitor geldanamycin were synthesized and evaluated.

**A useful synthetic equivalent of an acetone enolate**

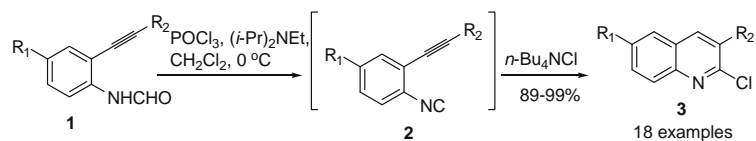
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Veselin Maslak, Zorana Tokic-Vujosevic, Zorana Ferjancic, Radomir N. Saicic^{*}**CARD (Computer-Aided Reaction Design) program as a heuristic tool to propose new reactions.**

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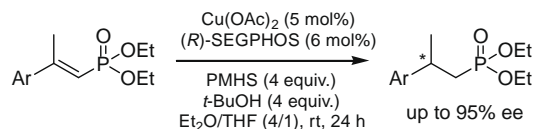
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Lanying Liu, Yong Wang, Honggen Wang, Changlan Peng, Jiayi Zhao, Qiang Zhu^{*}

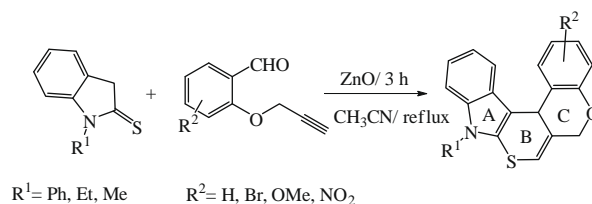
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Zheng-Chao Duan, Xiang-Ping Hu^{*}, Dao-Yong Wang, Sai-Bo Yu, Zhuo Zheng^{*}

An efficient ZnO-catalyzed synthesis of novel indole-annulated thiopyrano-chromene derivatives via Domino Knoevenagel-hetero-Diels–Alder reaction

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Mostafa Kiamehr, Firouz Matloubi Moghaddam^{*}^{*}Corresponding author

Supplementary data available via ScienceDirect

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