

Vol. 54 · Issue 27 · 3 July 2013 · ISSN 0040-4039

Tetrahedron Letters

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

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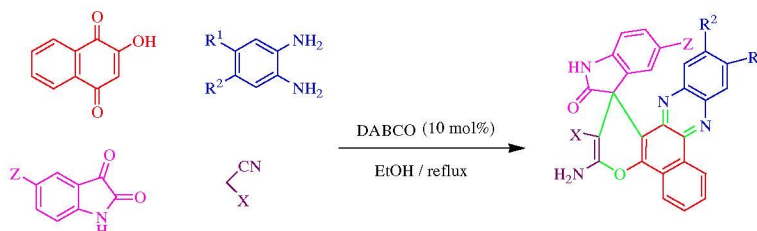
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Tetrahedron Letters Vol. 54, Issue 27, 2013

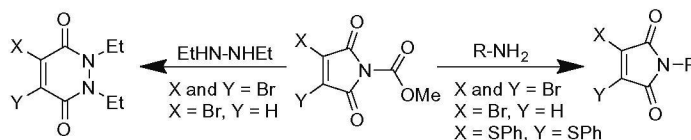
Contents

COMMUNICATIONS

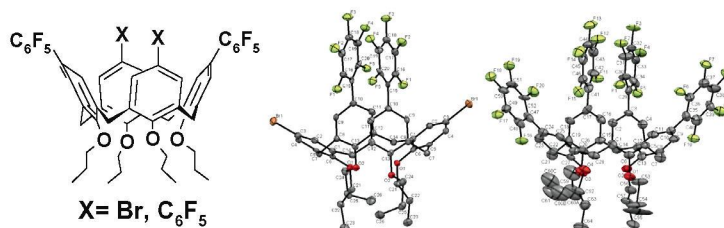
- A rapid and simple diversity-oriented synthesis of novel 3-amino-2'-oxospiro [benzo[c]pyrano[3,2-a]phenazine-1,3'-indoline]-2-carbonitrile/carboxylate derivatives via a one-pot, four-component domino reaction** pp 3487–3492
 Gholam Hossein Mahdavinia*, Maryam Mirzazadeh, Behrouz Notash



- A mild synthesis of N-functionalised bromomaleimides, thiomaleimides and bromopyridazinediones** pp 3493–3495
 Lourdes Castañeda, Zoë V. F. Wright, Cristina Marculescu, Trang M. Tran, Vijay Chudasama, Antoine Maruani, Elizabeth A. Hull, João P. M. Nunes, Richard J. Fitzmaurice, Mark E. B. Smith, Lyn H. Jones, Stephen Caddick*, James R. Baker*

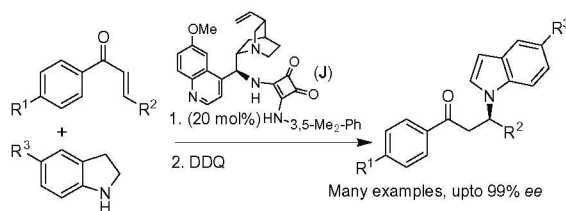


- Perfluorophenylcalix[4]arenes: prospective hosts for nucleophilic guests. Synthesis, structure and quantum chemical calculations** pp 3496–3499
 Alexander V. Ruban, Alexander B. Rozhenko, Vladimir V. Pirozhenko, Svetlana V. Shishkina, Oleg V. Shishkin, Anton M. Sikorsky, Sergiy O. Cherenok, Vitaly I. Kalchenko*

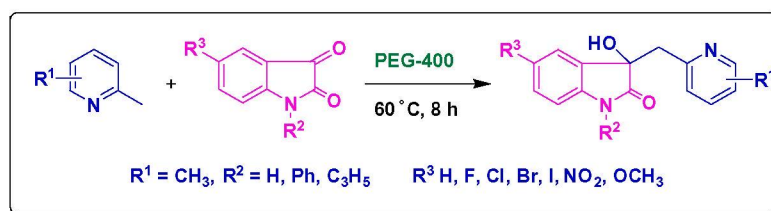


Bifunctional cinchona alkaloid-squaramide-catalyzed highly enantioselective aza-Michael addition of indolines to α,β -unsaturated ketones pp 3500–3502

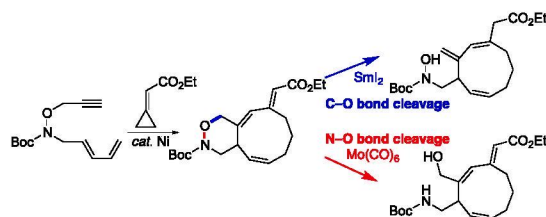
Arun K. Ghosh*, Bing Zhou


Polyethylene glycol (PEG-400): a mild and efficient reaction medium for one-pot synthesis of 3-hydroxy-3-(pyridin-2-ylmethyl)indolin-2-ones pp 3503–3506

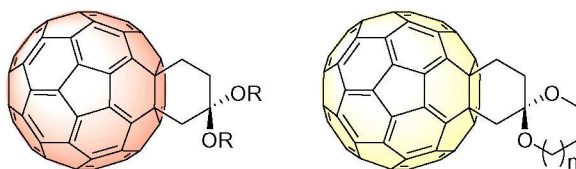
M. Raghu, M. Rajasekhar, B. Chandra Obula Reddy, C. Suresh Reddy, B. V. Subba Reddy*


Synthesis of monocyclic nine-membered compounds by the [4+3+2] cycloaddition-bond cleavage strategy pp 3507–3509

Ryu Yamasaki, Korehito Kato, Daichi Hanitani, Yuichiro Mutoh, Shinichi Saito*


Synthesis and characterization of new acetalized [60]fullerenes pp 3510–3513

Ken Kokubo*, Hiroyuki Masuda, Naohiko Ikuma, Tsubasa Mikie, Takumi Oshima



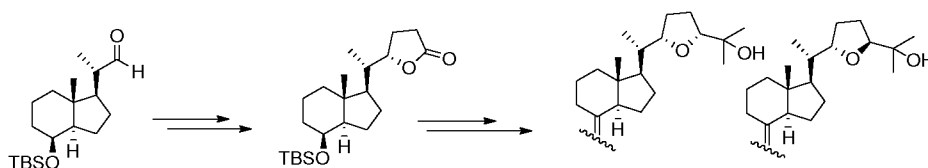
Acetalized [60]fullerenes were synthesized from cyclohexanone-fused [60]fullerene, which was readily prepared by Diels-Alder reaction of C_{60} with silyl ether diene, on treatment of various aliphatic alcohols under TiCl_4 catalyst. The spiro-cyclic acetalized [60]fullerenes having 5-, 6-, and 7-membered ring were also synthesized by using the corresponding diols under the same condition. The slightly raised reduction potentials E^{red} (~ 0.04 V) relative to that of PCBM were observed by cyclic voltammetry measurement, depending on the identity of alkyl group/chain. The noncyclic acetalized [60]fullerenes showed lower thermal stability up to 200 °C, while the cyclic ones exhibited the drastically improved thermal stability up to 350 °C under nitrogen atmosphere. The acid-catalyzed hydrolysis easily removed the acetal moiety quantitatively, resulting in the considerable change of solvent solubility of the fullerene.



Synthesis of new calcitriol analogues with an oxolane moiety in their side chains

pp 3514–3517

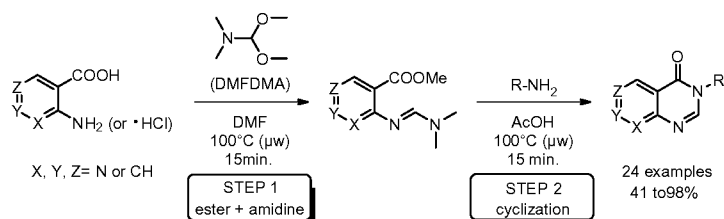
Andrea Martínez, Zoila Gándara*, María González, Generosa Gómez, Yagamare Fall*



Convenient one-pot synthesis of N³-substituted pyrido[2,3-d]-, pyrido[3,4-d]-, pyrido[4,3-d]-pyrimidin-4(3H)-ones, and quinazolin-4(3H)-ones analogs

pp 3518–3521

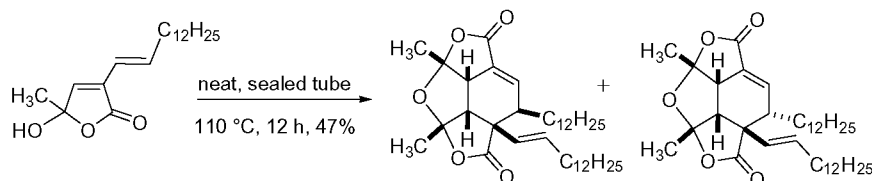
Emmanuel Deau, Damien Hédou, Elizabeth Chosson, Vincent Levacher, Thierry Besson*



Total synthesis of a novel oxa-bowl natural product paracaseolide A via a 'putative' biomimetic pathway

pp 3522–3525

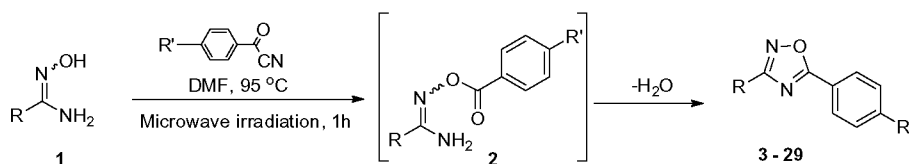
Laxmaiah Vasamsetty, Faiz Ahmed Khan*, Goverdhan Mehta*



Microwave assisted synthesis of 3,5-disubstituted 1,2,4-oxadiazoles from substituted amidoximes and benzoyl cyanides

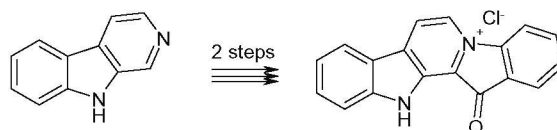
pp 3526–3529

Shivaji Kandre, Pundlik Rambhau Bhagat, Rajiv Sharma, Amol Gupte*



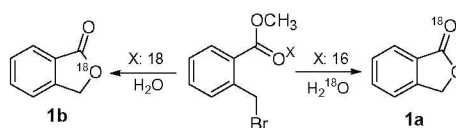
A new method for the synthesis of the marine alkaloid fascaplysin based on the microwave-assisted Minisci reaction pp 3530–3532

Maxim E. Zhidkov*, Vladimir A. Kaminskiĭ


Synthesis of selectively ^{18}O -labeled phthalides using water-assisted cyclization

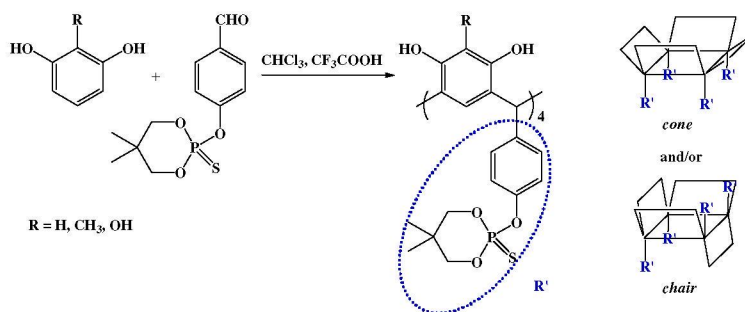
pp 3533–3537

Jiří Váňa, Illia Panov, Milan Erben, Miloš Sedlák, Jiří Hanusek*


One-step synthesis of *rccc*- and *rctt*-diastereomers of novel calix[4]resorcinols based on a *para*-thiophosphorylated derivative of benzaldehyde

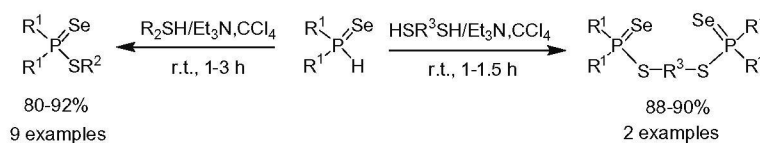
pp 3538–3542

Irina R. Knyazeva*, Victoria I. Sokolova, Margit Gruner, Wolf D. Habicher, Victor V. Syakaev, Vera V. Khrizanforova, Bulat M. Gabidullin, Aidar T. Gubaidullin, Yulia H. Budnikova, Alexander R. Burilov, Michael A. Pudovik


Oxidative cross-coupling between secondary phosphine selenides and thiols or dithiols: a facile regio-selective synthesis of thioselenophosphinic *S*-esters and *S*-diesters

pp 3543–3545

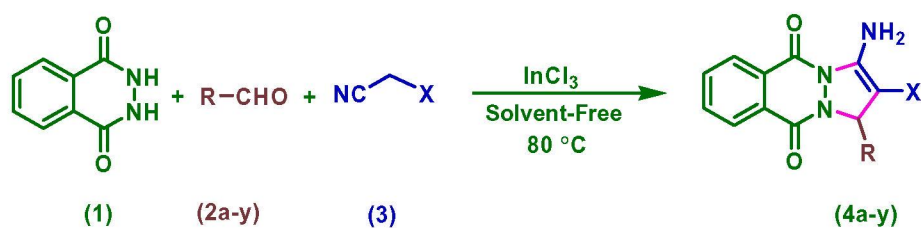
Nina K. Gusarova, Pavel A. Volkov, Nina I. Ivanova, Yurii V. Gatilov, Boris A. Trofimov*



InCl₃-catalyzed green synthesis of 1*H*-pyrazolo[1,2-*b*]phthalazine-5,10-diones under solvent-free conditions

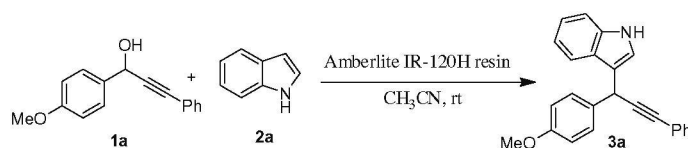
pp 3546–3549

Mudumala Veeramarayana Reddy, Yeon Tae Jeong*

**Amberlite IR-120H as an efficient and versatile solid phase catalyst for nucleophilic substitution of propargylic alcohols**

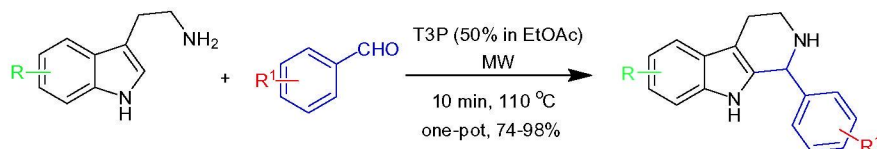
pp 3550–3553

Satheesh Gujarathi, Howard P. Hendrickson, Guangrong Zheng*

**A facile and efficient synthesis of tetrahydro-β-carbolines**

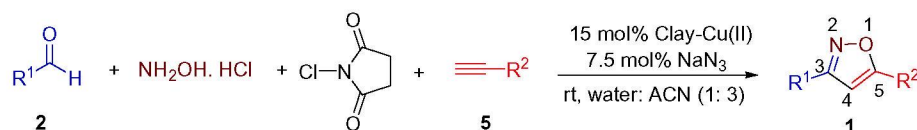
pp 3554–3557

Matthieu Desroses*, Tobias Koolmeister, Sylvain Jacques, Sabin Llona-Minguez, Marie-Caroline Jacques-Cordonnier, Armando Cázares-Körner, Thomas Helleday, Martin Scobie

**Montmorillonite clay Cu(II) catalyzed domino one-pot multicomponent synthesis of 3,5-disubstituted isoxazoles**

pp 3558–3561

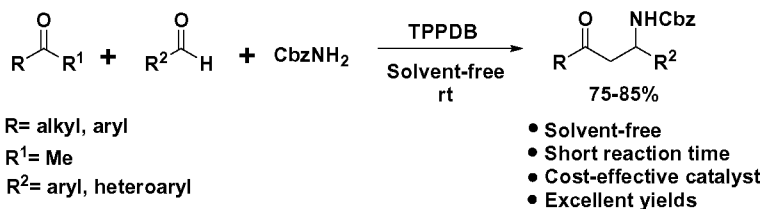
Sandip B. Bharate*, Anil K. Padala, Bashir A. Dar, Rammohan R. Yadav, Baldev Singh, Ram A. Vishwakarma*



A solvent-free method for the direct synthesis of Cbz-protected β -amino ketones using triphenylphosphine dibromide

pp 3562–3564

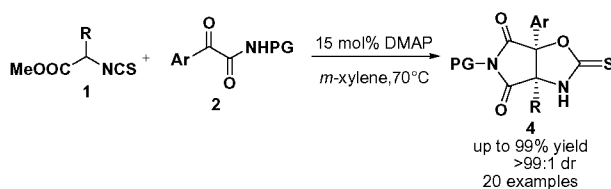
Pori Buragohain, Partha Pratim Saikia, Nabin C. Barua*



Diastereoselective synthesis of ring-fused thiocarbamates bearing contiguous quaternary carbon centers

pp 3565–3567

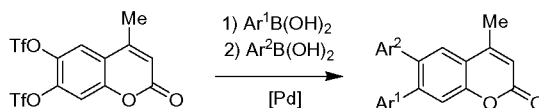
Qi-Xiang Guo*, Li-Jun Zhang, Liu Song, Biao Xu, Dong-Rong Xiao, Yun-Gui Peng*



Regioselective Suzuki–Miyaura cross-coupling reactions of 4-methyl-6,7-bis(trifluoromethanesulfonyloxy)coumarin

pp 3568–3571

Aws M. Hamdy, Nadi Eleya, Hamid H. Mohammed, Zien Khaddour, Tamás Patonay, Alexander Villinger, Peter Langer*



*Corresponding author

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ISSN 0040-4039