

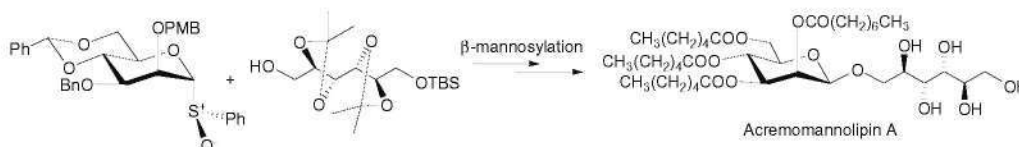
## Tetrahedron Letters Vol. 54, Issue 6, 2013

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## COMMUNICATIONS

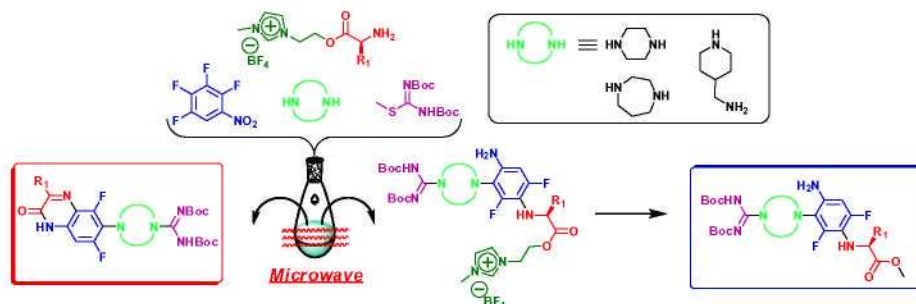
**The first total synthesis of acremomannolipin A, the potential Ca<sup>2+</sup> signal modulator with a characteristic glycolipid structure, isolated from the filamentous fungus *Acremonium strictum*** pp 451–453

Nozomi Tsutsui, Genzoh Tanabe, Ayako Kita, Reiko Sugiura\*, Osamu Muraoka\*



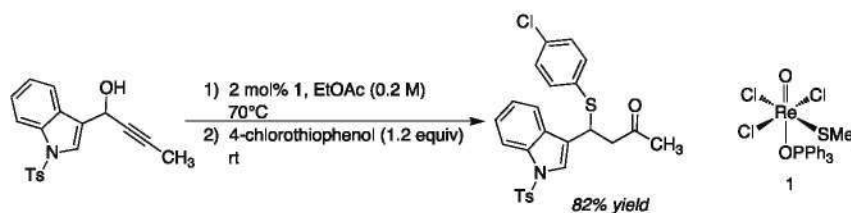
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Li-Hsun Chen, Zhan-Hui Xu, Chun-Chung Lin, Chung-Ming Sun\*



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Alyson E. Garst, Alexandra D. Badiceanu, Kristine A. Nolin\*



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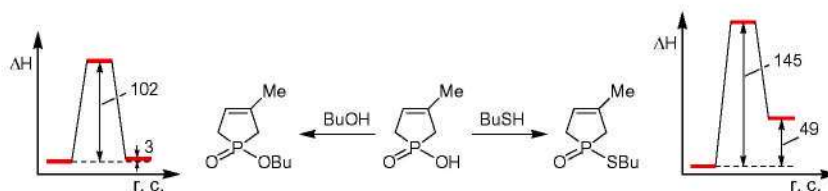
Bukuo Ni\*, Junpeng He



## Direct esterification of phosphinic acids under microwave conditions: extension to the synthesis of thiophosphinates and new mechanistic insights

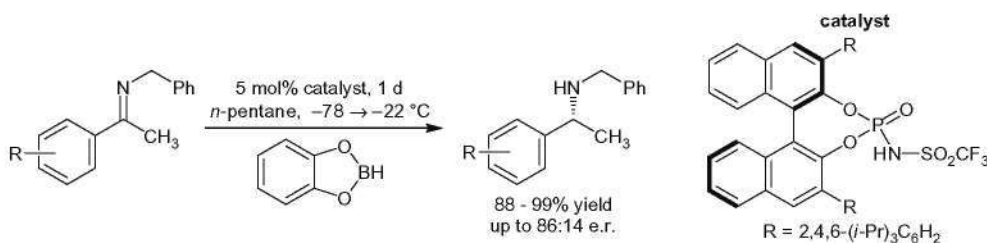
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György Keglevich\*, Nóra Zsuzsa Kiss, László Drahos, Tamás Körtvélyesi

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Dieter Enders\*, Andreas Rembiak, Matthias Seppelt



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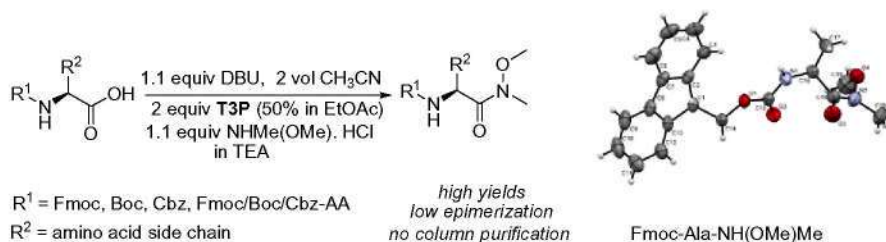
Zhipeng Tong, Shouzhi Pu\*, Qiang Xiao\*, Gang Liu, Shiqiang Cui



**Efficient synthesis of N-protected amino/peptide Weinreb amides from T3P and DBU**

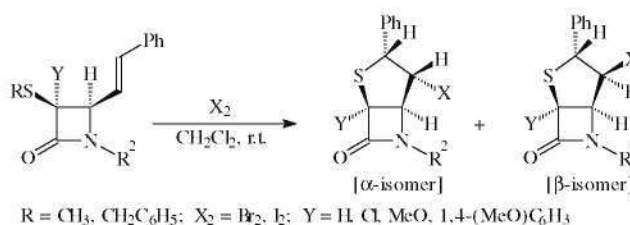
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K. M. Sharnabai, G. Nagendra, T. M. Vishwanatha, Vommina V. Sureshbabu\*

**Facile synthesis of novel bicyclic  $\beta$ -lactams: analogues of C-fused penicillin type ring systems**

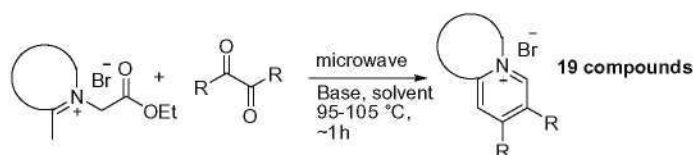
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S. S. Bari\*, Aman Bhalla\*, Reshma, Geeta Hundal

**Microwave assisted Westphal condensation and its application to synthesis of sempervirine and related compounds**

pp 487–490

T. S. Chinta Rao, Sanjay Saha, Gajendra B. Raolji, Balam Patro\*, Prabhaker Risbood, Michael J. Diflippantonio, Joseph E. Tomaszewski, Sanjay V. Malhotra\*

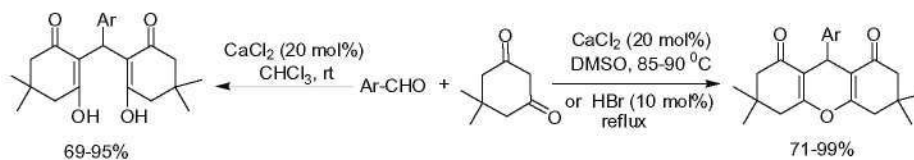


A concise synthesis of a potent lead in anticancer therapeutics, sempervirine, was achieved by one pot Westphal condensation, ester hydrolysis, and decarboxylation under microwave irradiation. The method was extended to the synthesis of several similar heterocycles.

**Simple and cost effective acid catalysts for efficient synthesis of 9-aryl-1,8-dioxooctahydroxanthene**

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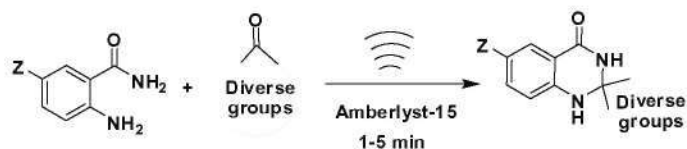
A. Ilangovan\*, S. Muralidharan, P. Sakthivel, S. Malayappasamy, S. Karuppusamy, M. P. Kaushik



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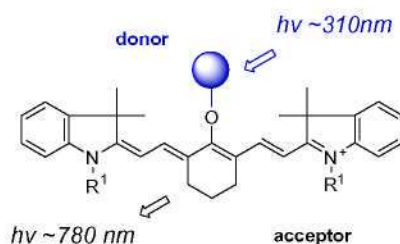
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D. Rambabu, S. Kiran Kumar, B. Yogi Sreenivas, Sandhya Sandra, Ajit Kandale, Parimal Misra, M. V. Basaveswara Rao\*, Manojit Pal\*


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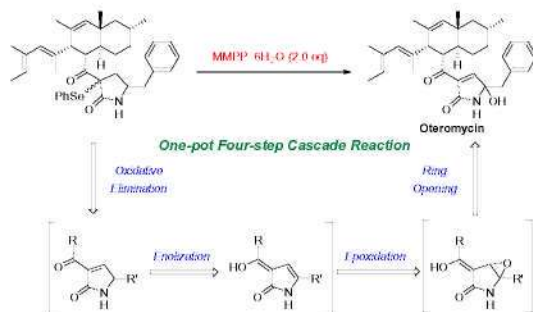
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Junyan Han, Anthony Engler, Jianjun Qi, Ching-Hsuan Tung\*


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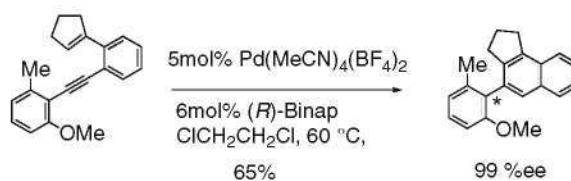
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Hiromi Uchiro\*, Nobuhiro Shionozaki, Ryo Tanaka, Hiroyuki Kitano, Naoki Iwamura, Kimiko Makino


**Palladium(II)-catalyzed asymmetric cycloisomerization of enynes for axially chiral biaryl construction**

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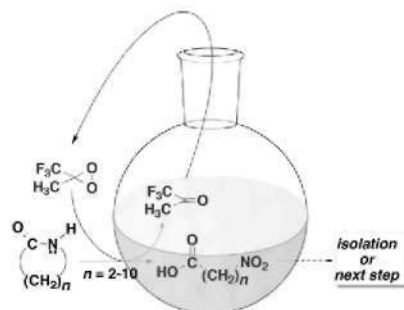
Nobuaki Kadoya, Masato Murai, Masako Ishiguro, Jun'ichi Uenishi, Motokazu Uemura\*



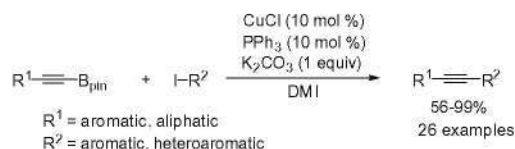


**Oxidative cleavage of lactams in water using dioxiranes: an expedient and environmentally-safe route to  $\omega$ -nitro acids** pp 515–517

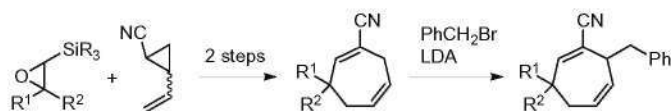
Cosimo Annese, Lucia D'Accolti\*, Rosella Filardi, Immacolata Tommasi, Caterina Fusco\*

**Palladium-free synthesis of unsymmetrical diarylethyne by cross-coupling reaction of alkynylboronates with aryl iodides catalyzed by CuCl** pp 518–521

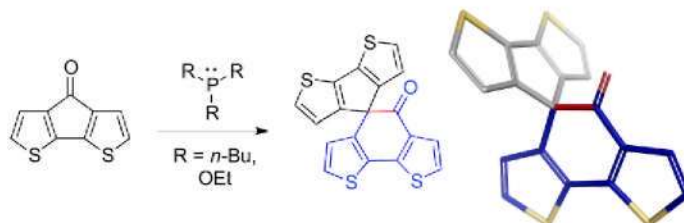
Daisuke Ogawa, Jing Li, Masato Suetsugu, Jiao Jiao, Masayuki Iwasaki, Yasushi Nishihara\*

**Synthesis of 2-cyano-1,4-cycloheptadiene derivatives via divinylcyclopropane rearrangement and alkylation of novel cycloheptadienyl anion species** pp 522–525

Takumasa Yamada, Fumihiko Yoshimura, Keiji Tanino\*

**Trivalent organophosphorus reagent induced pinacol rearrangement of 4H-cyclopenta[2,1-b:3,4-b']dithiophen-4-one** pp 526–529

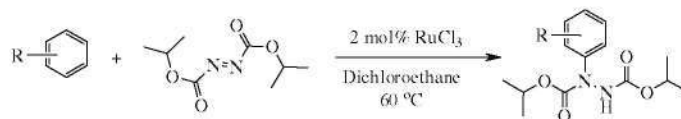
Lidia Marin, Yuexing Zhang, Koen Robeyns, Benoît Champagne, Peter Adriaensens, Laurence Lutsen, Dirk Vanderzande, David Bevk, Wouter Maes\*



**Ruthenium chloride, a new and efficient catalyst for direct amination of arenes with azodicarboxylates**

pp 530–532

Suleman M. Inamdar, Vinod K. More, Sisir K. Mandal\*



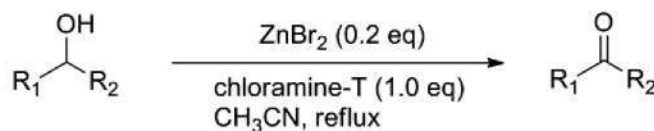
R= Me, OMe, OH, halogen, etc

An efficient cross coupling amination of arene with azodicarboxylate to afford hydrazides catalysed by ruthenium chloride has been demonstrated. The catalyst was found to be effective across a spectrum of arenes with a variety of functional groups. The yields are found to be modest to low depending on the type of substrates. The catalyst can be recycled in ligand free conditions to afford the cross coupling reaction.

**Zinc(II)-catalyzed oxidation of alcohols to carbonyl compounds with chloramine-T**

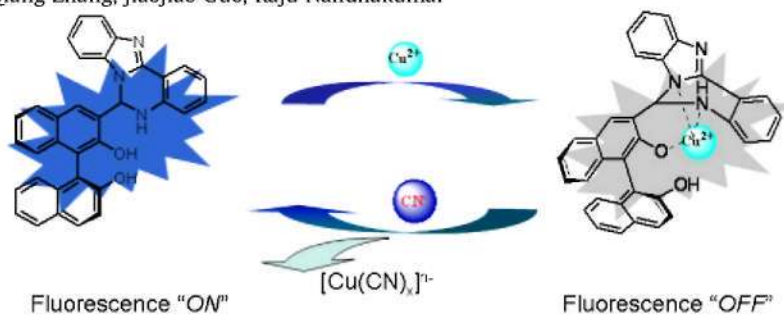
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Peng Wang, Jin Cai, Jiabin Yang, Chunlong Sun, Lushen Li, Huayou Hu, Min Ji\*

**A new benzimidazole-based quinazoline derivative for highly selective sequential recognition of Cu<sup>2+</sup> and CN<sup>-</sup>**

pp 536–540

Lijun Tang\*, Nannan Wang, Qiang Zhang, Jiaojiao Guo, Raju Nandhakumar\*

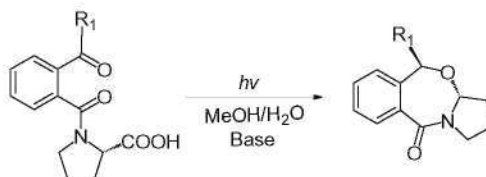


A new benzimidazole-based quinazoline derivative (**1**) as a fluorescent probe for sequential recognition of Cu<sup>2+</sup> and CN<sup>-</sup> has been developed.

**Unusual stereo- and chemo-selective photocyclization of chiral  $\alpha$ -amino acid-incorporated 2-acyl benzamides by control of chiral memory**

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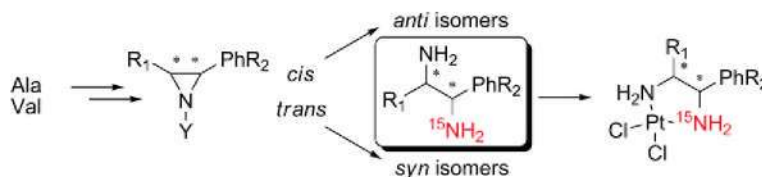
Cai-E Liu, Qiang Han, Nan Ma, Zheng-Song Geng, Rong-Hua Zhang\*, Zhi-Qin Jiang



**Synthesis of <sup>15</sup>N-labeled vicinal diamines through N-activated chiral aziridines: tools for the NMR study of platinum-based anticancer compounds**

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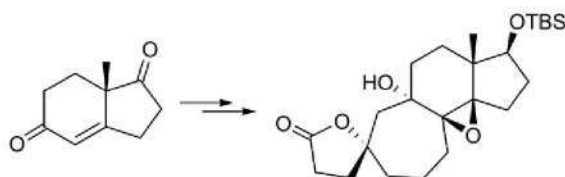
Gilles Berger\*, Michel Gelbcke, Emilie Cauët, Michel Luhmer, Jean Nève, François Dufrasne



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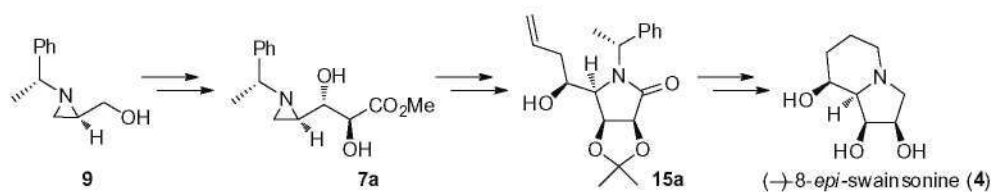
Goverdhan Mehta\*, Srinivasarao Yaragorla



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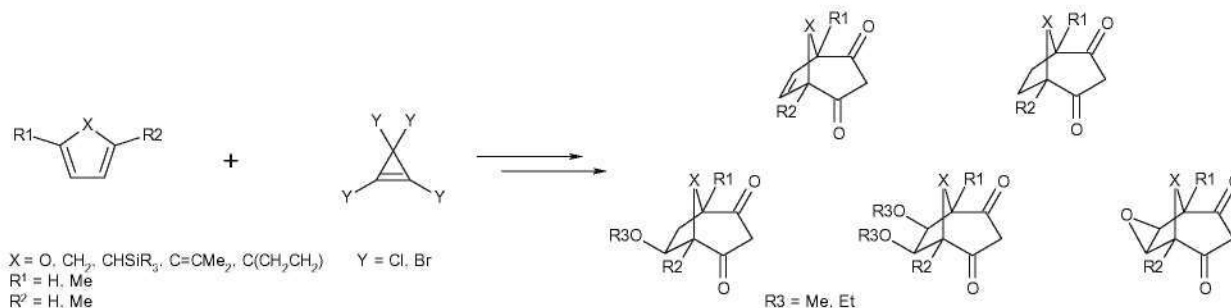
Baek Kyoung Lee, Hwan Geun Choi, Eun Joo Roh, Won Koo Lee, Taeho Sim\*



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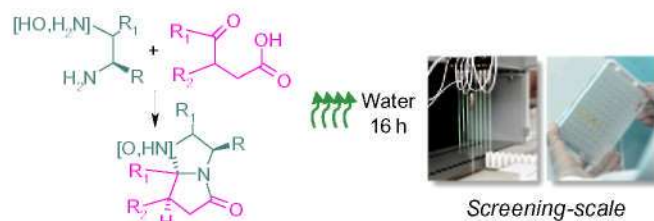
Myriam Baalouch, Alain De Mesmaeker, Renaud Beaudegnies\*



**Water-based conditions for the microscale parallel synthesis of bicyclic lactams**

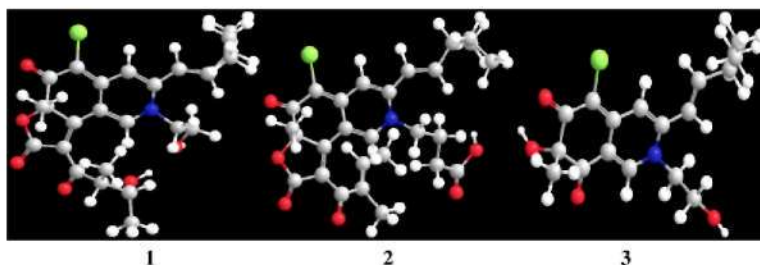
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Sandra Malaquin, Mouhamad Jida, Justin Courtin, Guillaume Laconde, Nicolas Willand, Benoit Deprez\*, Rebecca Deprez-Poulain\*

**New azaphilones from *Chaetomium globosum* isolated from the built environment**

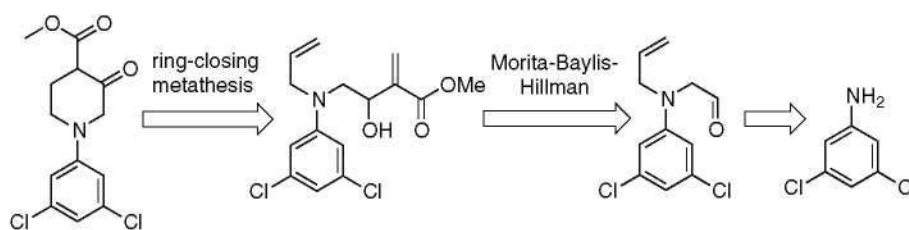
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David R. McMullin, Mark W. Sumarah, Barbara A. Blackwell, J. David Miller\*

Molecular models of 4'-epi-N-2-hydroxyethyl-azachaetoviridin A (1), N-2-butyric-azochaetoviridin E, and isochromophilone XIII (3) isolated from an indoor strain of *Chaetomium globosum*.**A novel synthesis of 1-aryl-3-piperidone derivatives**

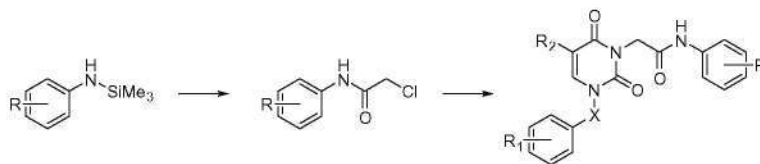
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Yinan Zhang, Richard B. Silverman\*

**A highly facile approach to the synthesis of novel 2-(3-benzyl-2,4-dioxo-1,2,3,4-tetrahydropyrimidin-1-yl)-N-phenylacetamides**

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Mikhail S. Novikov, Denis A. Babkov, Maria P. Paramonova, Alexander O. Chizhov, Anastasia L. Khandazhinskaya, Katherine L. Seley-Radtke\*





**CuO nano-particles supported on silica, a new catalyst for facile synthesis of benzimidazoles, benzothiazoles and benzoxazoles**

pp 579–583

Suleman M. Inamdar, Vinod K. More, Sisir K. Mandal\*

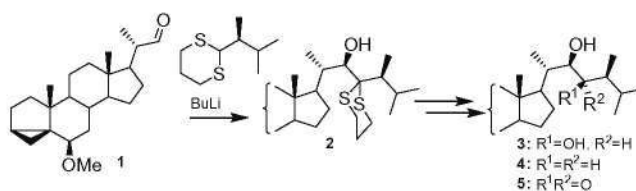


A facile synthetic route for benzimidazoles, benzothiazoles and benzoxazoles comprising the reaction of corresponding *o*-phenylenediamine, *o*-aminothiophenol and *o*-aminophenol with various aldehydes using silica supported nano-copper (II) oxide as a catalyst has been described. The catalyst exhibited clean reaction profile with excellent yields in a short reaction time. The catalyst can be recycled effectively after use.

**A short convergent synthesis of the side chains of brassinolide, cathasterone, and cryptolide**

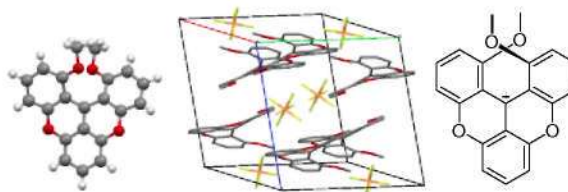
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Alaksiej Hurski, Vladimir Zhabinskii\*, Vladimir Khripach

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Thomas Just Sørensen, Anders Ø. Madsen, Bo W. Laursen\*

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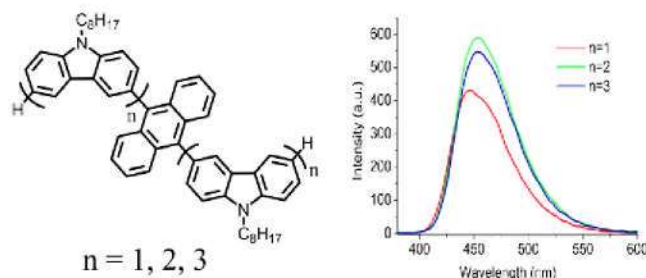
Claudia Thomas, Hans-Joachim Knölker\*



**Synthesis of monodisperse oligocarbazoles-functionalized anthracenes with intense blue-emitting**

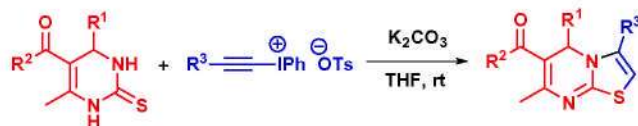
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Yong Zhan, Kaiyu Cao, Pengchong Xue, Ran Lu\*


**New synthesis of 3,5-disubstituted-5H-thiazolo[3,2-a]pyrimidine via ring annulation of 3,4-dihydropyrimidin-2(1H)-thione using alkynyl(aryl)iodonium salts**

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Amol V. Shelke, Bhagyashree Y. Bhong, Nandkishor N. Karade\*



\*Corresponding author

Supplementary data available via SciVerse ScienceDirect

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