

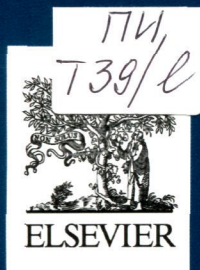
Vol. 55 • Issue 33 • 13 August 2014 • ISSN 0040-4039

Tetrahedron Letters

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

Available online at www.sciencedirect.com

ScienceDirect



Tetrahedron Letters Vol. 55, Issue 33, 2014

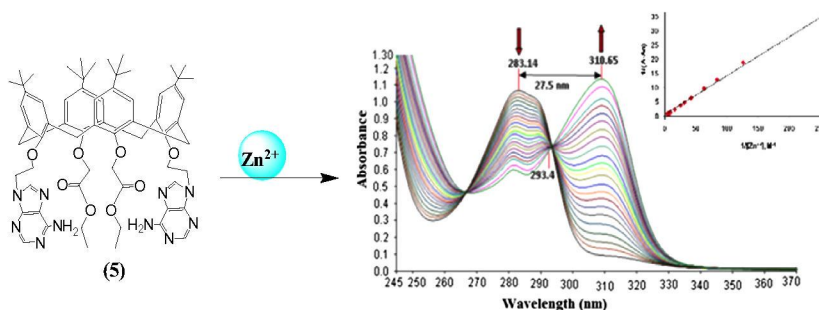
Contents

COMMUNICATIONS

A new calix[4]arene based nucleobase for cation recognition

pp 4517–4520

Har Mohindra Chawla*, Jyotsna Rani Kar, Weqar Ahmad Siddiqui, Naresh Kumar, David StC Black



One-pot, three component synthesis of novel 5*H*-[1,3,4]thiadiazolo[3,2-*a*]pyrimidine-6-carboxylate derivatives by microwave irradiation

pp 4521–4524

Bing Zhao, Yu Xu, Qi-Gang Deng*, Zhuo Liu, Li-Yan Wang, Yan Gao*

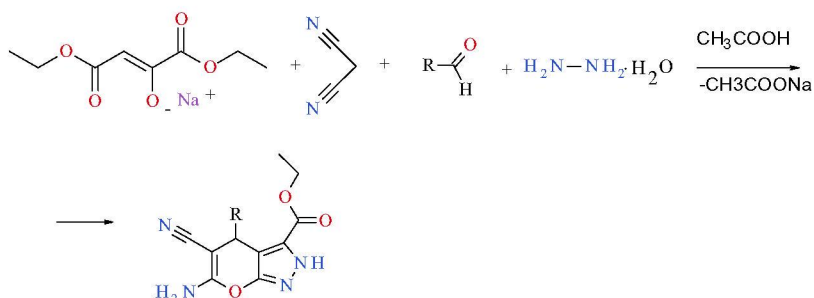


The synthesis of highly substituted 5*H*-[1,3,4]thiadiazolo[3,2-*a*]pyrimidine-6-carboxylate derivatives via a microwave assisted multicomponent reaction of 2-aminothiadiazole, substituted benzaldehydes, and ethyl acetoacetate has been accomplished without any catalyst in acetic acid. This approach provides a convenient one pot method for the synthesis of 5*H*-[1,3,4]thiadiazolo[3,2-*a*]pyrimidine-6-carboxylate derivatives.

A novel four-component synthesis of ethyl 6-amino-4-aryl-5-cyano-2,4-dihydropyran[2,3-*c*]pyrazole-3-carboxylates

pp 4525–4528

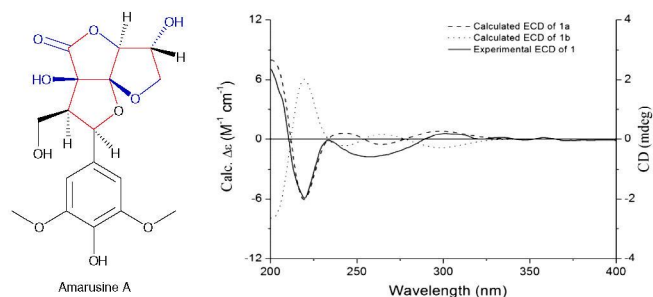
V. L. Gein*, T. M. Zamaraeva, P. A. Slepukhin



Amarusine A, a new dioxaspiro[4.4]nonane derivative with a butyrolactone ring from *Pleoblastus amarus*

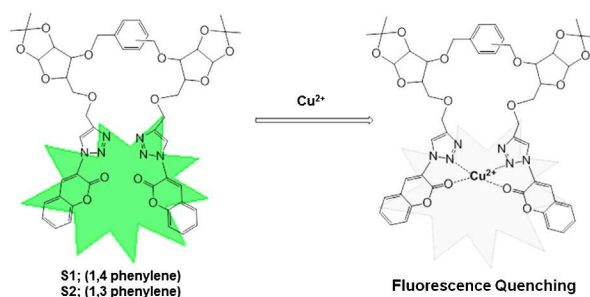
pp 4529–4531

Jia Sun, Peicheng Zhang, Qi Wei, Hang Xun, Feng Tang, Yongde Yue*, Li Li, Xuefeng Guo, Rong Zhang

**Fluorogenic dual click derived bis-glycoconjugated triazolocoumarins for selective recognition of Cu(II) ion**

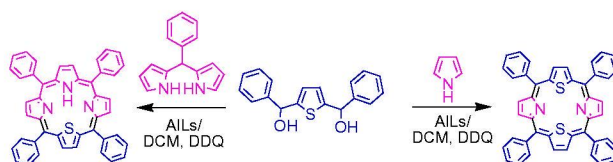
pp 4532–4536

Divya Kushwaha, Roop Shikha Singh, Vinod K. Tiwari*

**Highly efficient synthesis of 21-thia-5,10,15,20-tetraarylporphyrins and 21,23-dithia-5,10,15,20-tetraarylporphyrins in presence of acidic ionic liquid catalyst**

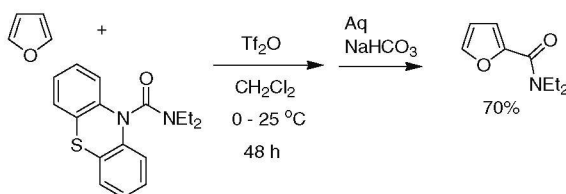
pp 4537–4540

Amit Kumar Rawat, Soumee Bhattacharya, S. M. S. Chauhan*

**Direct synthesis of arenecarboxamides through Friedel–Crafts acylation using ureas**

pp 4541–4544

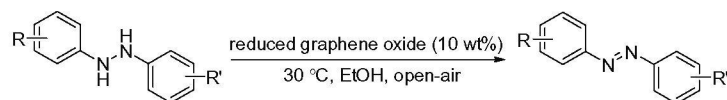
Wenjiang Ying, Lalith S. R. Gamage, Luke R. Lovro, James W. Herndon III, Nathan W. Jenkins, James W. Herndon*



Reduced graphene oxide as a recyclable catalyst for dehydrogenation of hydrazo compounds

pp 4545–4548

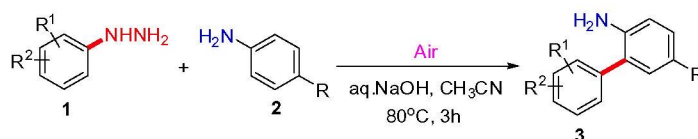
Li-Sha Bai, Xiao-Min Gao, Xuan Zhang, Fei-Fei Sun, Ning Ma*



Air-promoted direct radical arylation of anilines with arylhydrazines

pp 4549–4552

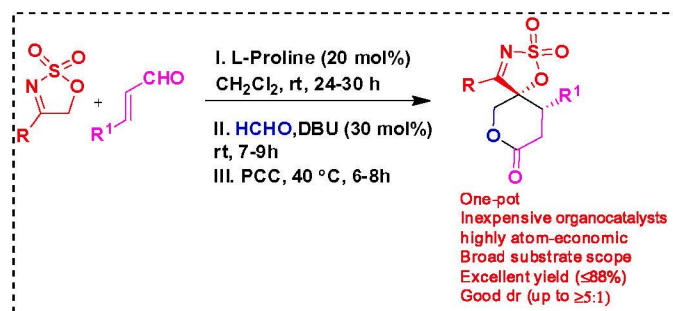
Tao Jiang, Sheng-Yan Chen, Huan Zhuang, Run-Sheng Zeng*, Jian-Ping Zou*



An expedient one-pot sequential three-component reaction for the stereoselective synthesis of functionalized spiro-sulfamidate imine fused δ -lactone scaffold

pp 4553–4558

Debashis Majee, Soumen Biswas, Shaikh M. Mobin, Sampak Samanta*



Synthesis and spectrophotometric studies of water-soluble amino[bis(ethanesulfonate)] azobenzene pH indicators

pp 4559–4563

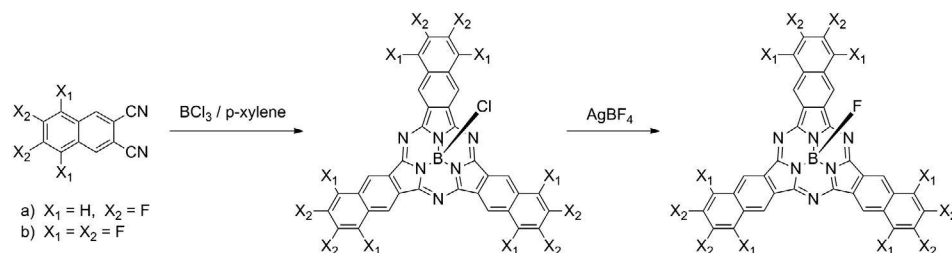
Maria A. Cardona, David C. Magri*



Synthesis and properties of novel fluorinated subnaphthalocyanines for organic photovoltaic cells

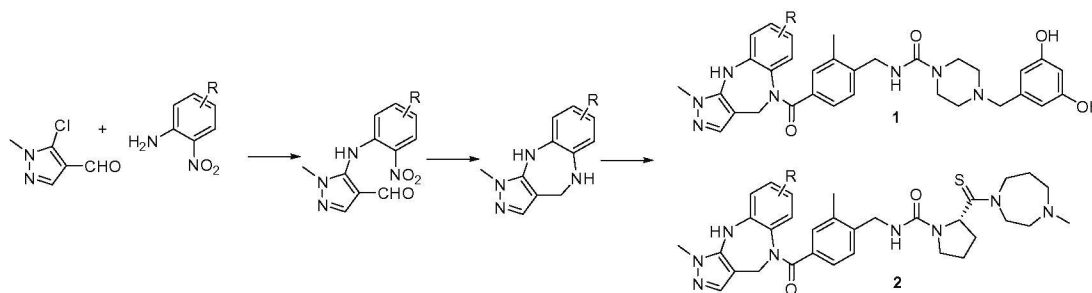
pp 4564–4567

Yuko Takao*, Tomoaki Masuoka, Koji Yamamoto, Tadashi Mizutani, Fukashi Matsumoto, Kazuyuki Moriwaki, Koichi Hida, Toshiyuki Iwai, Takatoshi Ito, Takumi Mizuno, Toshinobu Ohno*

**Pyrazolo[1,4]diazepines as non-peptidic probes of the oxytocin and vasopressin receptors**

pp 4568–4571

Tristan A. Reekie, Iain S. McGregor, Michael Kassiou*

**Metal-free regioselective hydrobromination of alkynes through C–H/C–Br activation**

pp 4572–4575

Xiuling Chen, Tieqiao Chen, Yuqiang Xiang, Yongbo Zhou*, Daoqing Han, Li-Biao Han, Shuang-Feng Yin*

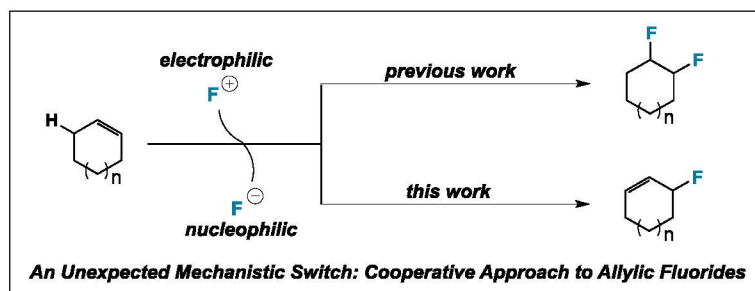


A metal-free regioselective hydrobromination of alkynes has been developed to provide the Markovnikov-type vinyl bromides in good yields using dibromomethane/*N,N*-dimethylaniline as in-situ 'HBr' source. This protocol also represents an elegant example of the activation of sp^2 C–H and C–Br bonds in one pot, in which 'HBr' is generated and transferred under mild metal-free conditions. *D*-incorporated experiments were employed to investigate the reaction mechanism and a plausible reaction path was proposed.

**A cooperative allylic fluorination: combination of nucleophilic and electrophilic fluorine sources**

pp 4576–4580

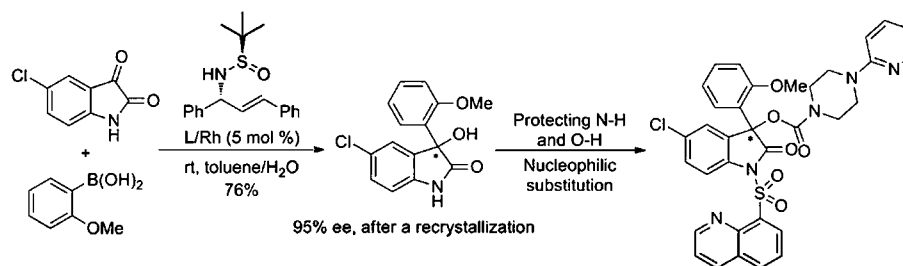
Steven Bloom, James Levi Knippel, Maxwell Gargiulo Holl, Ross Barber, Thomas Lectka*



Rh(I)-catalyzed asymmetric 1,2-additions of arylboronic acids to isatins with chiral sulfur–alkene hybrid ligands

pp 4581–4584

Xiangqing Feng, Yanzhao Nie, Lanqiong Zhang, Jing Yang*, Haifeng Du*

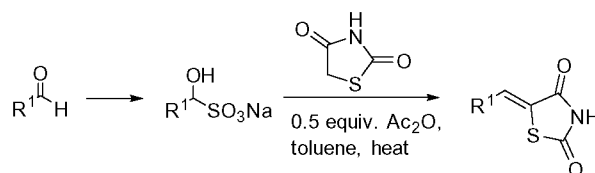


A rhodium-catalyzed asymmetric 1,2-additions of arylboronic acids to isatins with chiral sulfur–alkene hybrid ligands was achieved, and a variety of 3-aryl-3-hydroxy-2-oxindoles were obtained in moderate to good yields with up to 85% ee. And a biologically active compound was synthesized with this strategy.

**Acetic anhydride-promoted one-pot condensation of 2,4-thiazolidinedione with bisulfite adducts of aldehydes**

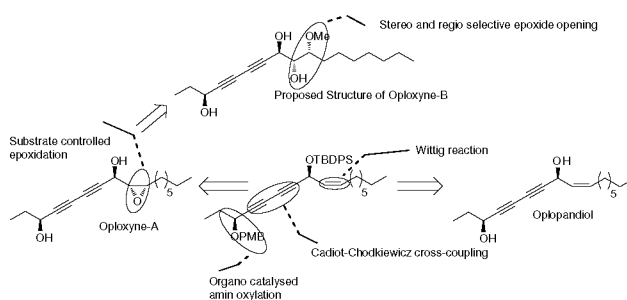
pp 4585–4589

Sandeep Mohanty*, Amrendra Kumar Roy, Vinay K. P. Kumar, Sandeep G. Reddy, Arun Chandra Karmakar

**Stereoselective total synthesis of oplopandiol, oploxyne A, and oploxyne B**

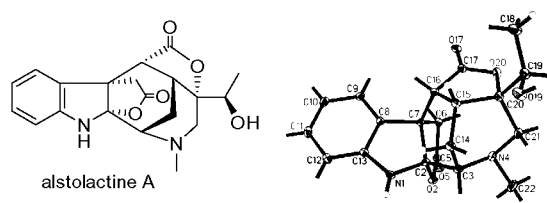
pp 4590–4592

B. V. Subba Reddy*, R. Nageshwar Rao, B. Kumaraswamy, J. S. Yadav

**Alstolactines A–C, novel monoterpenoid indole alkaloids from *Alstonia scholaris***

pp 4593–4596

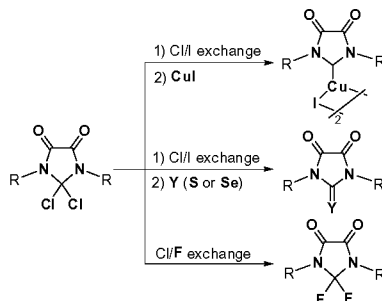
Xing-Wei Yang, Xu-Jie Qin, Yun-Li Zhao, Paul K. Lunga, Xiao-Nian Li, Shi-Zhi Jiang, Gui-Guang Cheng, Ya-Ping Liu*, Xiao-Dong Luo*



Novel reactivities of 2,2-dichloroimidazolidine-4,5-diones: synthesis of copper(I) diamidocarbene complex, 2-thioxo/selenoxoimidazolidine-4,5-dione, and 2,2-difluoroimidazolidine-4,5-dione

pp 4597–4600

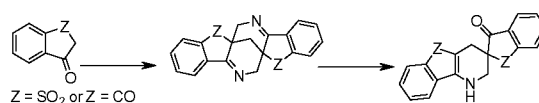
Fei Zhao, Yang Wang, Ling Xu, Wen-Xiong Zhang*, Zhenfeng Xi



Cyclisation of benzo[b]thiophen-3(2H)-one 1,1-dioxide and 1,3-indanedione into novel methylene bridged polycyclic diazocines and their rearrangement into spirocyclic compounds

pp 4601–4604

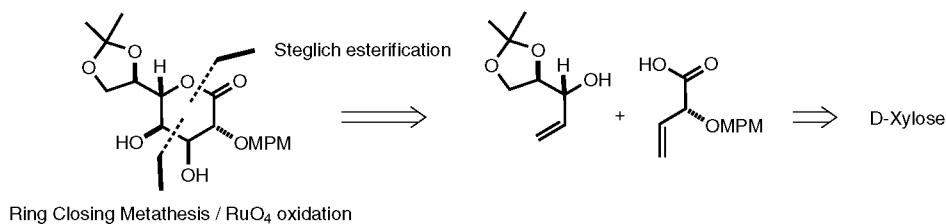
Brigita Cekavicus, Brigita Vigante, Martins Rucins, Aiva Plotniece, Karlis Pajuste, Marina Petrova, Sergey Belyakov, Gunars Duburs, Arkadij Sobolev*



From D-xylose to a D-glycero-L-altrose derivative

pp 4605–4607

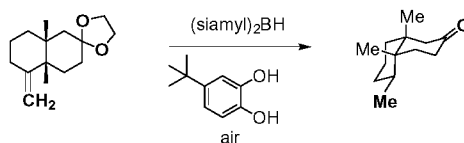
Aline Banchet-Cadeddu, Arnaud Haudrechy*



Synthesis of the all-cis-trimethyldecalin fragment of unusual terpenes by radical-mediated protonolysis of an alkylboron derivative

pp 4608–4611

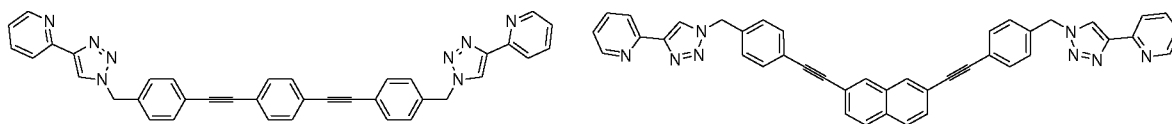
Giorgio Villa, Ben Bradshaw, Cédric Bürki, Josep Bonjoch*, Philippe Renaud*



2-(1,2,3-Triazol-4-yl)pyridine-containing ethynylarenes as selective ‘turn-on’ fluorescent chemosensors for Ni(II)

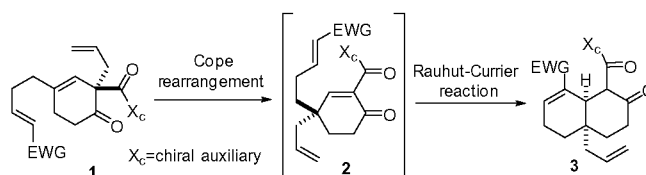
pp 4612–4615

Joseph A. Christensen, James T. Fletcher*

**Enantioselective synthesis of decalin structures with all-carbon quaternary centers via one-pot sequential Cope/Rauhut–Currier reaction**

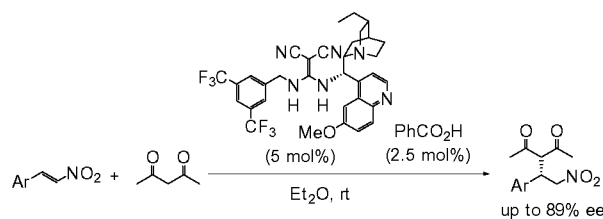
pp 4616–4618

Tina Morgan Ross, Sarah J. Burke, William P. Malachowski*

**Cinchona–diaminomethylenemalononitrile organocatalyst for asymmetric conjugate addition of 1,3-diketone to nitroalkene**

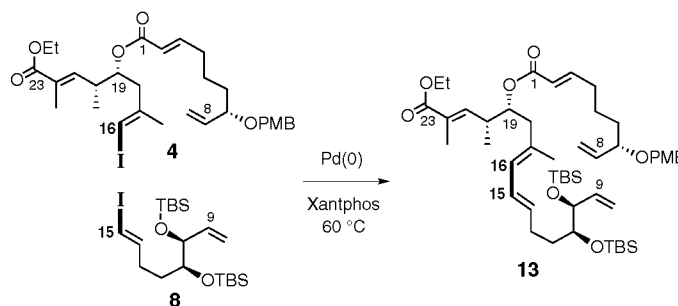
pp 4619–4622

Shin-ichi Hirashima, Kosuke Nakashima, Yuki Fujino, Ryoga Arai, Takaaki Sakai, Masahiro Kawada, Yuji Koseki, Miho Murahashi, Norihiro Tada, Akichika Itoh, Tsuyoshi Miura*

**A synthetic approach to palmerolides via Negishi cross coupling. The challenge of the C15–C16 bond formation**

pp 4623–4627

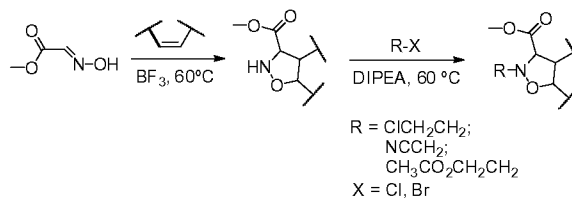
Jokin Carrillo, Alex Gómez, Anna M. Costa*, Patricia Fernández, Carles Isart, Mireia Sidera, Jaume Vilarrasa*



Synthesis and *N*-functionalization of isoxazolidines: a new approach to nucleoside analogues

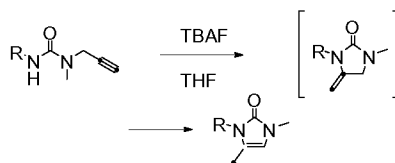
pp 4628–4631

Carlos A. D. Sousa*, José E. Rodríguez-Borges*, Xerardo Garcia-Mera

**Metal-free 5-*exo*-dig cyclization of propargyl urea using TBAF**

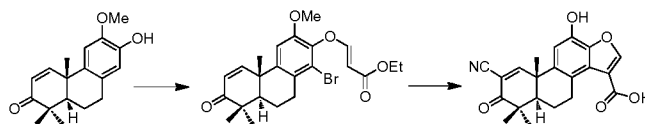
pp 4632–4635

Florent Huguenot*, Clémence Delalande, Michel Vidal

**Synthesis of a furano abietane cyano enone—A new scaffold for biological exploration**

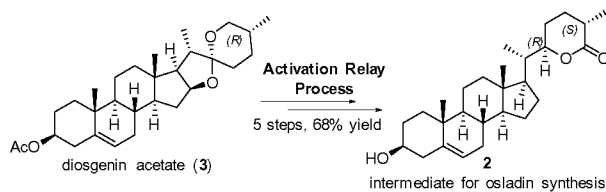
pp 4636–4638

Evans O. Onyango, Liangfeng Fu, Gordon W. Gribble*

**Formal synthesis of osladin based on an activation relay process**

pp 4639–4642

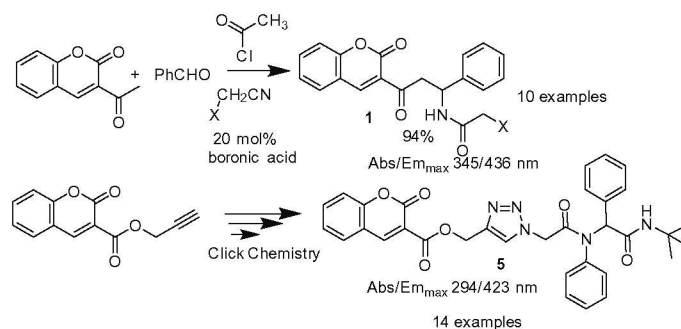
Xiao-Fei Zhang, Jing-Jing Wu, Yong Shi*, Jing-Rong Lin*, Wei-Sheng Tian*



Step-economic and cost effective synthesis of coumarin based blue emitting fluorescent dyes

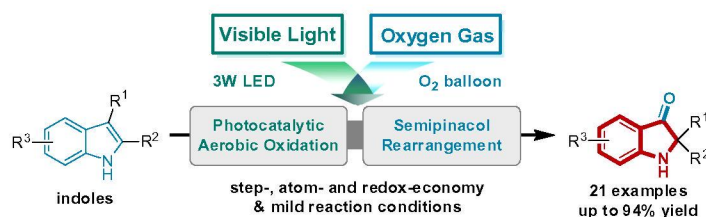
pp 4643–4647

T. V. Soumya, P. Thasnim, D. Bahulayan*

**Photocatalytic aerobic oxidation/semipinacol rearrangement sequence: a concise route to the core of pseudoindoxyl alkaloids**

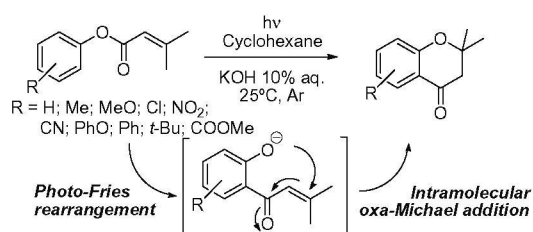
pp 4648–4652

Wei Ding, Quan-Quan Zhou, Jun Xuan, Tian-Ren Li, Liang-Qiu Lu*, Wen-Jing Xiao*

**Expeditious photochemical reaction toward the preparation of substituted chroman-4-ones**

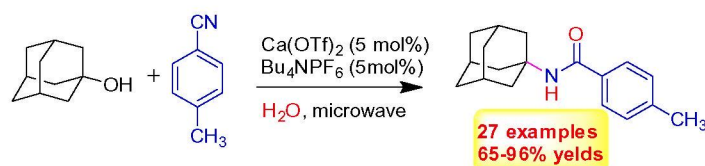
pp 4653–4656

Daniela Iguchi, Rosa Erra-Balsells, Sergio M. Bonesi*

**Microwave assisted, Ca(II)-catalyzed Ritter reaction for the green synthesis of amides**

pp 4657–4660

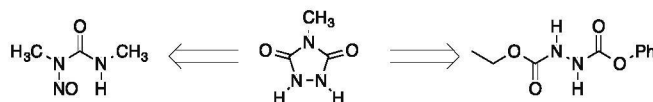
Srinivasarao Yaragorla*, Garima Singh, Pyare Lal Saini, M. Kesava Reddy



Alternative synthetic routes to *N*-methyl-1,2,4-triazoline-3,5-dione (MeTAD) and other triazolinedione derivatives

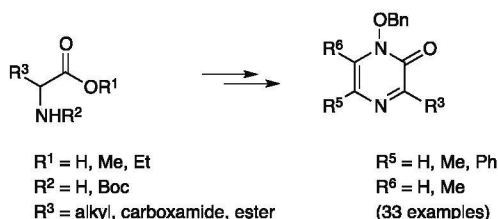
pp 4661–4663

Gary W. Breton*, Mark Turlington

**Synthesis of 1-benzyloxypyrazin-2(1H)-one derivatives**

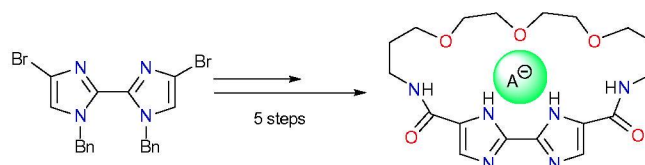
pp 4664–4666

Anh Hung Mai, Sonalika Pawar, Wim M. De Borggraeve*

**Synthesis and anion binding studies of a new crown ether containing 2,2'-biimidazole**

pp 4667–4670

Maria C. Llinàs, Joan Farran, Mario V. Capparelli, Gonzalo Anguera, David Sánchez-García*, Jordi Teixidó, Salvador Borrós



*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®. Full text available on ScienceDirect®



ELSEVIER

Available online at www.sciencedirect.com**ScienceDirect**

ISSN 0040-4039