



Tetrahedron Vol. 65, Issue 50, 2009

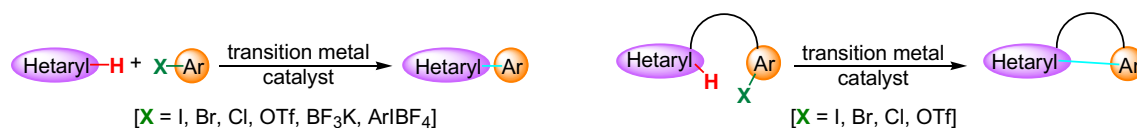
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Recent advances in the synthesis of (hetero)aryl-substituted heteroarenes via transition metal-catalysed direct (hetero)arylation of heteroarene C–H bonds with aryl halides or pseudohalides, diaryliodonium salts, and potassium aryltrifluoroborates

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Fabio Bellina, Renzo Rossi*

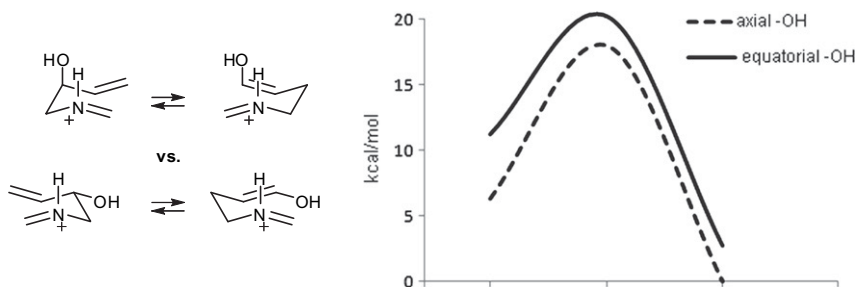


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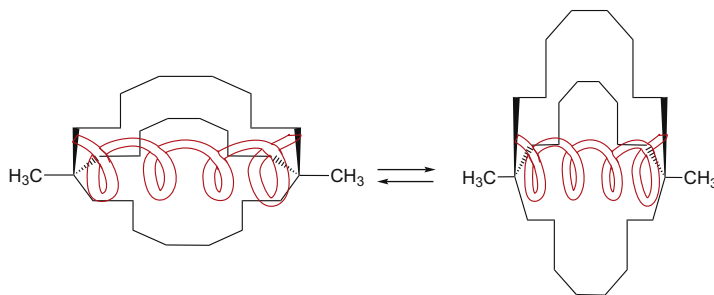
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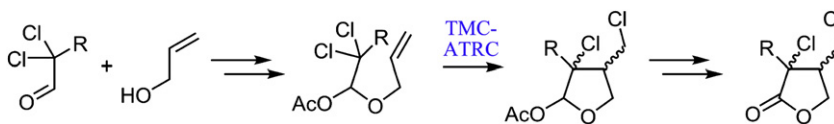
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Ian W. Jones, Matthew A. Lynn, Eugene A. Mash*

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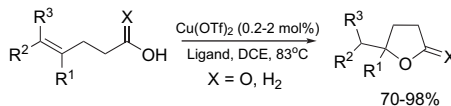
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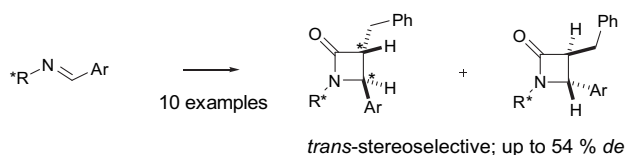
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Luis A. Adrio, Louisa Shuyi Quek, Jason G. Taylor, King Kuok (Mimi) Hii*

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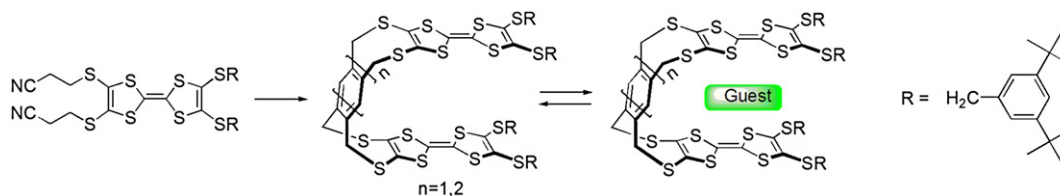
Aleksandar R. Todorov, Vanya B. Kurteva*, Ranko P. Bontchev, Nikolay G. Vassilev



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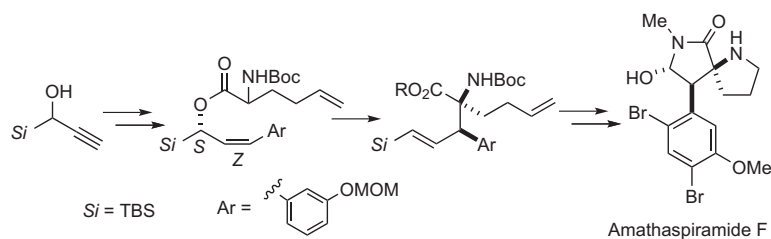
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Maciej Skibiński, Rafael Gómez, Enno Lork, Vladimir A. Azov*

**Total synthesis of (–)-amathaspiramide F**

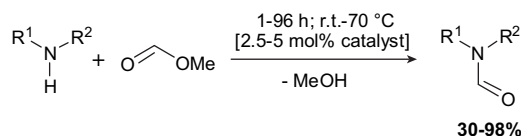
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Kazuhiko Sakaguchi*, Miki Ayabe, Yusuke Watanabe, Takuya Okada, Kazushige Kawamura, Tetsuro Shinada, Yasufumi Ohfuné*

**Catalytic reaction of methyl formate with amines to formamides**

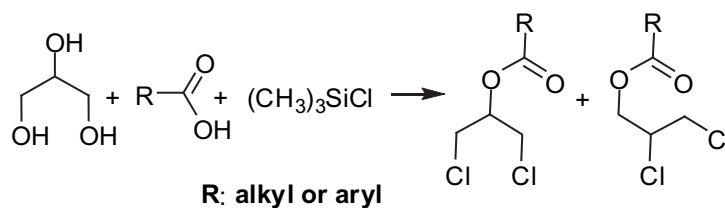
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Jens Deutsch*, Reinhard Eckelt, Angela Köckritz, Andreas Martin

**From glycerol to chlorohydrin esters using a solvent-free system. Microwave irradiation versus conventional heating**

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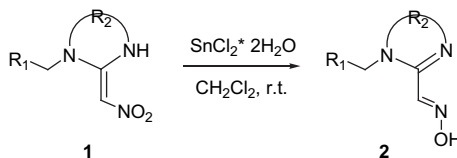
Marc Escribà, Jordi Eras*, Miquel Duran, Sílvia Simon, Cristina Butchosa, Gemma Villorbina, Mercè Balcells, Ramon Canela



One step from nitro to oxime: a convenient preparation of unsaturated oximes by the reduction of the corresponding vinylnitro compounds

pp 10377–10382

Kewei Wang, Xuhong Qian*, Jingnan Cui*

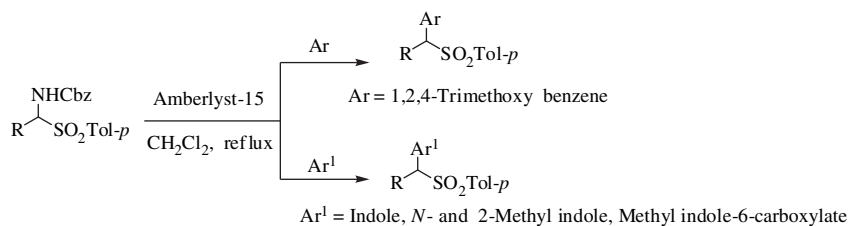


A series of novel unsaturated oximes were prepared from vinylnitro compounds by reduction and these oximes seem to be formed by reduction of the *aci* form of nitro compounds.

Amberlyst-15: an efficient and reusable catalyst for the Friedel–Crafts reactions of activated arenes and heteroarenes with α -amido sulfones

pp 10383–10389

Santosh T. Kadam, Ponnaboina Thirupathi, Sung Soo Kim*

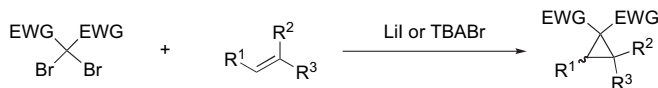


α -Amido sulfones derived from various aldehydes undergo the Friedel–Crafts reactions with electron-rich arenes or heteroarenes in the presence of Amberlyst-15 as the catalyst. Amberlyst-15 can be recycled without significant loss of activity.


Cyclopropanation of electron-deficient alkenes with activated dibromomethylene compounds mediated by lithium iodide or tetrabutylammonium salts

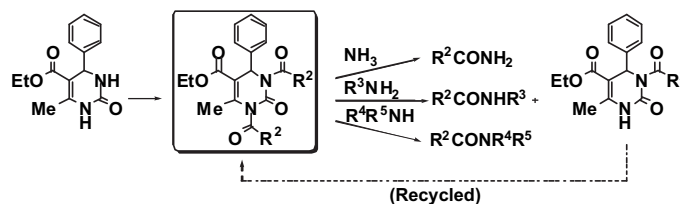
pp 10390–10394

Daisuke Kawai, Katsuaki Kawasumi, Tsukasa Miyahara, Tsunehisa Hirashita*, Shuki Araki*


N1,N3-Diacyl-3,4-dihydropyrimidin-2(1H)-ones: neutral acyl group transfer reagents

pp 10395–10399

Kamaljit Singh*, Kawaljit Singh

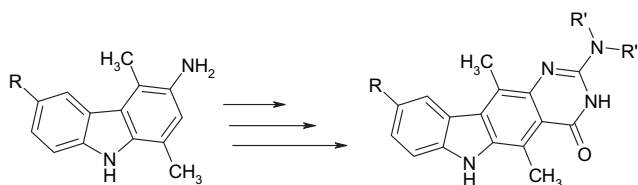


The title dihydropyrimidinone reagents perform acylations of ammonia as well as primary and secondary amines in neutral medium to furnish primary, secondary and tertiary amides in a synthetically useful manner.

A rapid and versatile synthesis of novel pyrimido[5,4-*b*]carbazoles

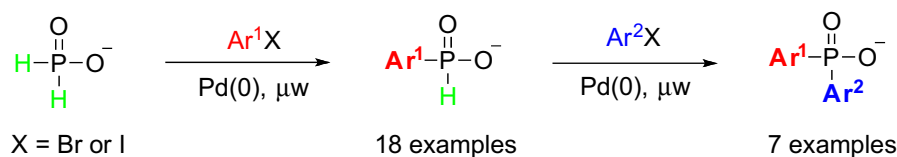
pp 10400–10405

Anna Caruso, Jean-Charles Lancelot, Hussein El-Kashef, Maria Stefania Sinicropi, Rémi Legay, Aurélien Lesnard, Sylvain Rault*

**Efficient synthesis of mono- and diarylphosphinic acids: a microwave-assisted palladium-catalyzed cross-coupling of aryl halides with phosphinate**

pp 10406–10412

Marcin Kalek, Jacek Stawinski*

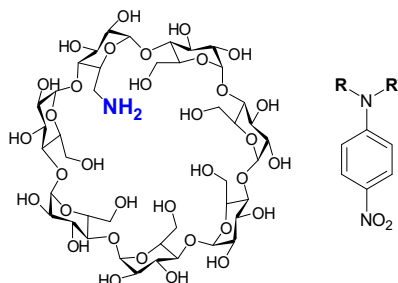


A general, efficient method for the microwave-assisted synthesis of mono and diarylphosphinic acids from anilinium phosphinate and aryl halides, using Pd(0) and Xantphos as a supporting ligand, was developed

**Binding properties of mono-(6-deoxy-6-amino)-β-cyclodextrin towards *p*-nitroaniline derivatives: a polarimetric study**

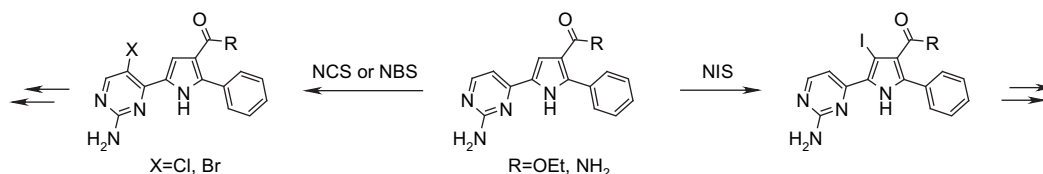
pp 10413–10417

Paolo Lo Meo*, Francesca D'Anna, Michelangelo Gruttadauria, Serena Riela, Renato Noto*

**Regioselective halogenation of aminopyrimidinyl-pyrrole carboxylic acid derivatives**

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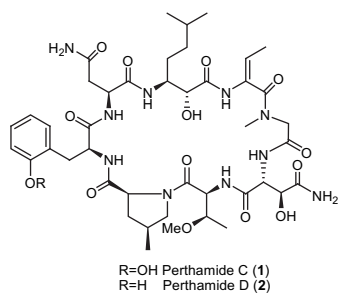
Ermes Vanotti, Marina Caldarelli, Teresa Disingrini, Marcella Nesi, Marco Tatò, Paola Vianello, Maria Menichincheri*



Perthamides C and D, two new potent anti-inflammatory cyclopeptides from a Solomon Lithistid sponge *Theonella swinhoei*

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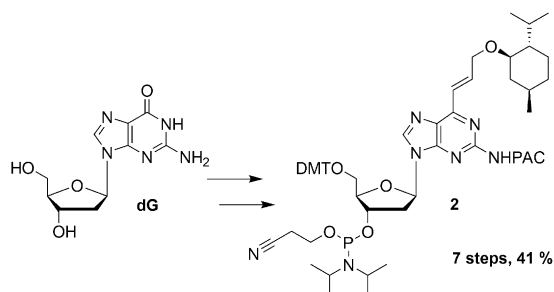
Carmen Festa, Simona De Marino, Valentina Sepe, Maria Chiara Monti, Paolo Luciano, Maria Valeria D'Auria, Cecile Débitus, Mariarosaria Bucci, Valentina Vellecco, Angela Zampella*



The synthesis of a menthol derivative of 2-aminopurine as a fluorescent DNA lesion

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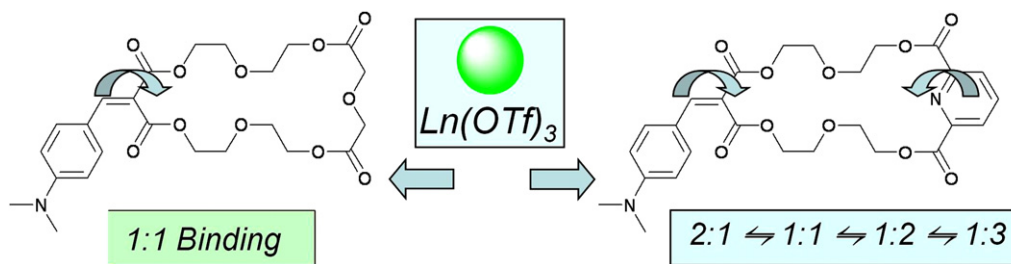
Wouter F.J. Hogendorf, Carlo P. Verhagen, Erik Malta, Nora Goosen, Herman S. Overkleeft, Dmitri V. Filippov*, Gijsbert A. Van der Marel



Dynamic switching between binding sites in the complexation of macrocyclic 'push-pull' chromophores to lanthanides

pp 10436–10440

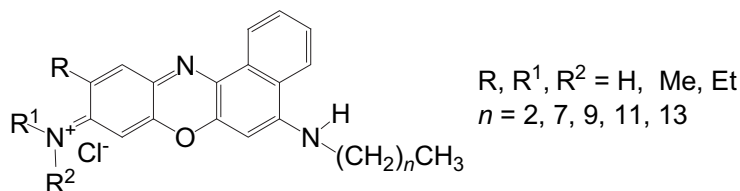
Carmine Coluccini, Dario Pasini*, Pierpaolo Righetti, Douglas A. Vander Griend



Novel long alkyl side chain benzo[a]phenoxazinium chlorides: synthesis, photophysical behaviour and DNA interaction

pp 10441–10452

Carla M.A. Alves, Sarala Naik, Paulo J.G. Coutinho, M. Sameiro T. Gonçalves*

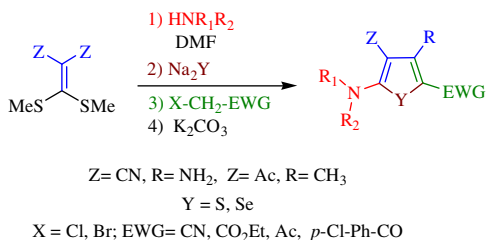


A series of benzo[a]phenoxazinium chlorides possessing long alkyl side chains at the 5-amino position of the heterocycle were efficiently synthesised and photophysical studies revealed that the compounds with an alkyl side chain of up to eight carbon atoms have the ability to act as new long-wavelength fluorescent probes for DNA.

One-pot synthesis of new tetrasubstituted thiophenes and selenophenes

pp 10453–10458

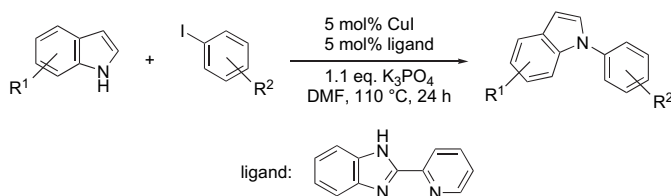
David Thomae, Enrico Perspicace, Dorothée Henryon, Zhanjie Xu, Serge Schneider, Stéphanie Hesse, Gilbert Kirsch*, Pierre Seck



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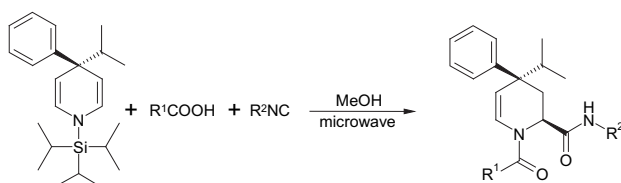
Satoshi Haneda, Yusuke Adachi, Masahiko Hayashi*



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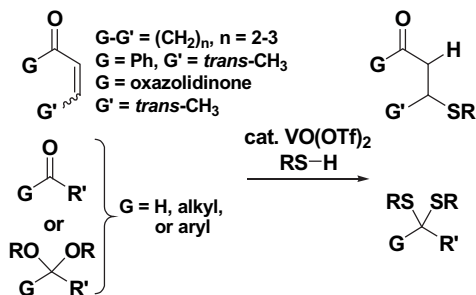
Christian A. Sperger, Peter Mayer, Klaus T. Wanner*



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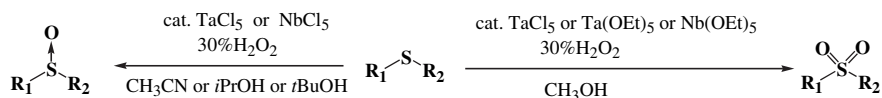
Chien-Tien Chen*, Yow-Dzer Lin, Cheng-Yuan Liu



Tantalum(V) or niobium(V) catalyzed oxidation of sulfides with 30% hydrogen peroxide

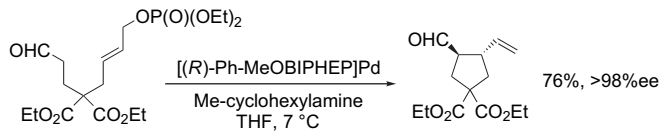
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Masayuki Kiriwara*, Junya Yamamoto, Takuya Noguchi, Atsushi Itou, Sayuri Naito, Yoshiro Hirai

**Organocatalyzed Tsuji–Trost reaction: a new method for the closure of five- and six-membered rings**

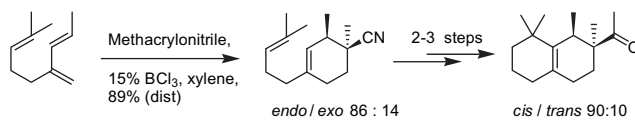
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Bojan Vulovic, Filip Bihelovic, Radomir Matovic, Radomir N. Saicic*


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Andras Borosy, Georg Frater, Urs Müller, Fridtjof Schröder*



*Corresponding author

 Supplementary data available via ScienceDirect



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