

Tetrahedron Letters Vol. 51, No. 35, 2010

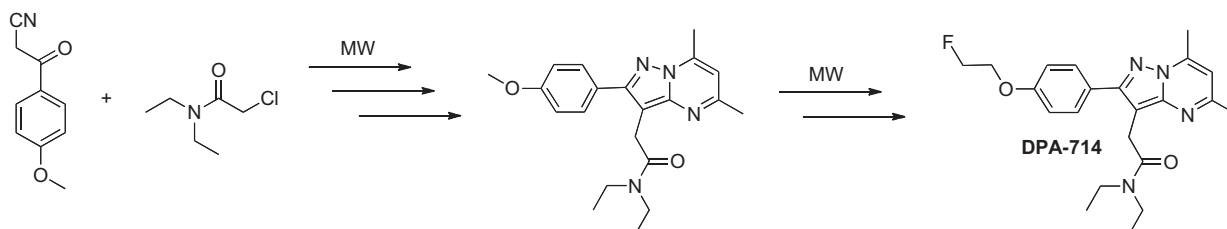
Contents

COMMUNICATIONS

Microwave-assisted organic synthesis of a high-affinity pyrazolo-pyrimidinyl TSP0 ligand

pp 4595–4598

Dewei Tang, Jason R. Buck, Matthew R. Hight, H. Charles Manning*



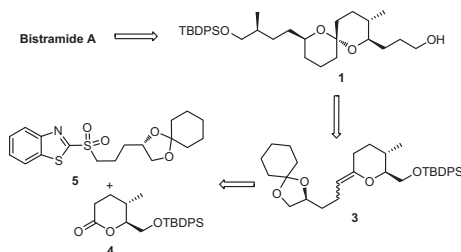
A microwave-assisted total synthesis of the high-affinity TSP0 ligand, DPA-714, is reported. This protocol could enable high-throughput development of focused libraries of novel TSP0 ligands.



Synthesis of the spiroketal fragment of bistramide A via an exocyclic enol ether

pp 4599–4601

Loïc Tomas, David Gueyrard*, Peter G. Goekjian*



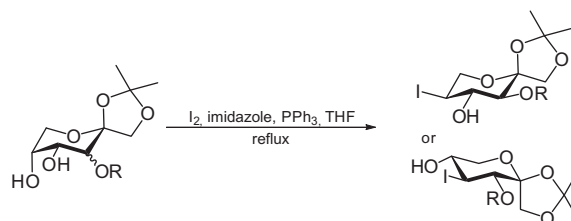
An efficient synthesis of the spirocyclic fragment **1** of bistramides is reported. An olefination reaction of lactone **4** with sulfone **5** gave the enol ether **3**, which upon cyclization in acidic media provided the spiroketal ring system. This compound was then converted into the C19–C36 fragment of the bistramides via successive Julia–Kocienski and Horner–Emmons olefinations.



Selective iodination of vicinal *cis*-diols on ketopyranose templates

pp 4602–4604

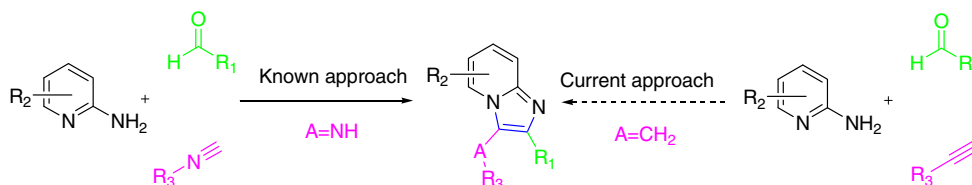
Ana Catarina Simao, Arnaud Tatibouët*, Amelia P. Rauter, Patrick Rollin



Synthesis of imidazo[1,2a]pyridines via three-component reaction of 2-aminopyridines, aldehydes and alkynes

pp 4605–4608

Ping Liu, Li-song Fang, Xinsheng Lei*, Guo-qiang Lin*

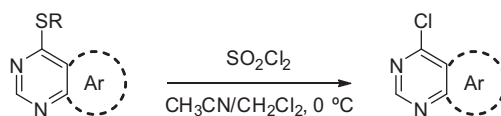


A novel three-component reaction towards the synthesis of imidazo[1,2a]pyridines was independently developed based on 2-aminopyridines, aldehydes and alkynes, and thereby imidazo[1,2a]pyridines were obtained in acceptable yields by the $\text{CuSO}_4/\text{TsOH}$ catalyzed three-component reaction.

**The efficient one-step chlorination of methylsulfonyl group on pyrimidine ring system with sulfuryl chloride**

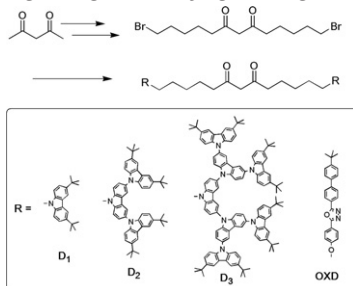
pp 4609–4611

Young Jin Ham, Duck-Hyung Lee, Hwan Geun Choi, Jung-Mi Hah, Taebo Sim*

**Twofold terminal post-functionalization of acetylacetone with hole- and electron-transporting fragments**

pp 4612–4616

Lingcheng Chen, Junqiao Ding, Yanxiang Cheng, Lixiang Wang*, Xiabin Jing, Fosong Wang

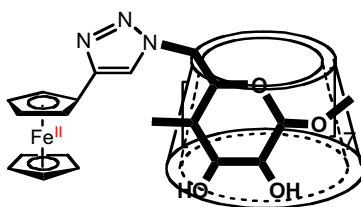


A modular synthetic methodology has been developed to prepare β -diketones functionalized with hole- and electron-transporting fragments at their two termini. The optical and electrochemical properties of these new β -diketones are also described in detail.

**'Click' synthesis of ferrocenyl-, biferrocenyl-, and cobalticenyl-triazolyl- β -cyclodextrins**

pp 4617–4619

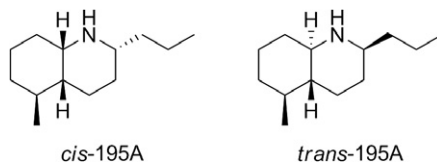
Abdou K. Diallo, Stéphane Menuel, Eric Monflier, Jaime Ruiz, Didier Astruc*



Palladium-catalyzed oxidative cyclization in alkaloid synthesis: total syntheses of (\pm)-*cis*- and *trans*-195A

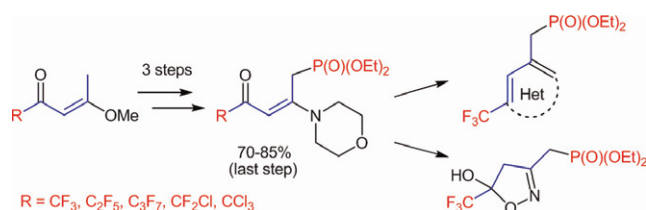
pp 4620–4622

Megumi Saeki, Masahiro Toyota*

**Synthesis of new polyhalogenoalkyl-containing phosphonates with an enaminone core and their use in the preparation of fluorinated heterocycles**

pp 4623–4626

Karen V. Tarasenko, Olga V. Manoylenko, Valery P. Kukhar, Gerd-Volker Röschenthaler, Igor I. Gerus*

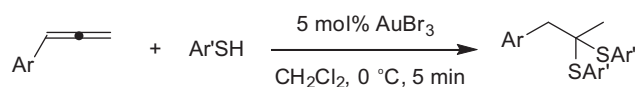


A number of polyhalogenoalkyl-containing phosphonates with an enaminone core were synthesized and used for the preparation of five- and six-membered heterocycles bearing both trifluoromethyl and methylenephosphonate groups.

**Gold-catalyzed regioselective intermolecular hydrothiolation of allenes**

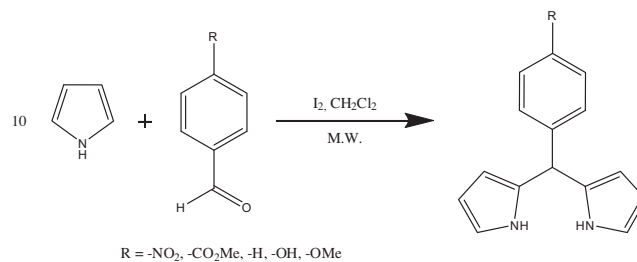
pp 4627–4629

Menggenbateer, Meda Narsireddy, Giovanni Ferrara, Naoko Nishina, Tienan Jin*, Yoshinori Yamamoto*

**Synthesis of *meso*-substituted dipyrromethanes using iodine-catalysis**

pp 4630–4632

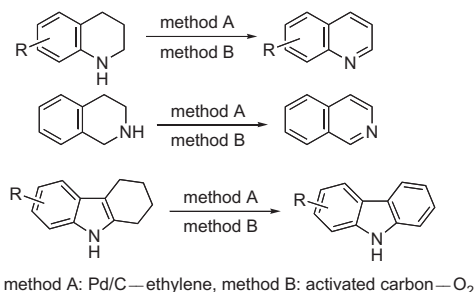
Pierre-Antoine Faugeras, Benjamin Boëns, Pierre-Henri Elchinger, Julien Vergnaud, Karine Teste, Rachida Zerrouki*



Dehydrogenation of 1,2,3,4-tetrahydroquinoline and its related compounds: comparison of Pd/C–ethylene system and activated carbon–O₂ system

pp 4633–4635

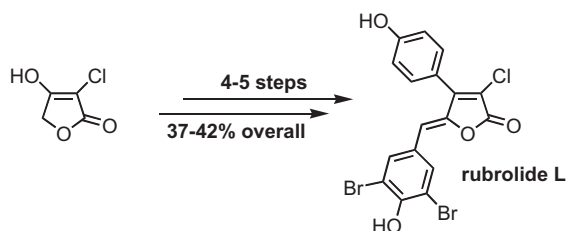
Takanori Tanaka, Ken-ichi Okunaga, Masahiko Hayashi*



Synthesis of the human aldose reductase inhibitor rubrolide L

pp 4636–4639

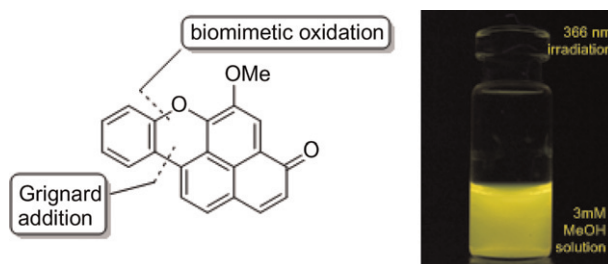
John Boukouvalas*, Lucas C. McCann



Synthesis of musafluorone: a naphthoxanthone isolated from *Musa acuminata*

pp 4640–4643

Luisa Duque, Catalina Restrepo, Jairo Sáez, Jesús Gil, Bernd Schneider*, Felipe Otálvaro*

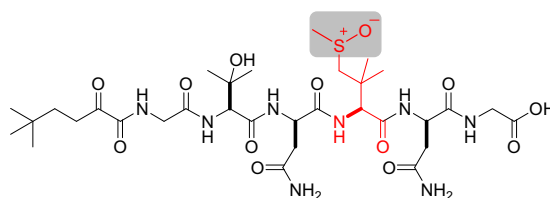


Musafluorone was synthesized using a nine-step procedure including a Grignard addition and a photochemical cyclization.

The effect of sulfur stereochemistry of L-β,β-dimethylmethionine S-oxide on the physicochemical properties of truncated polytheonamides

pp 4644–4647

Shigeru Matsuoka, Yuki Mizoguchi, Hiroaki Itoh, Ken Okura, Naoki Shinohara, Masayuki Inoue*



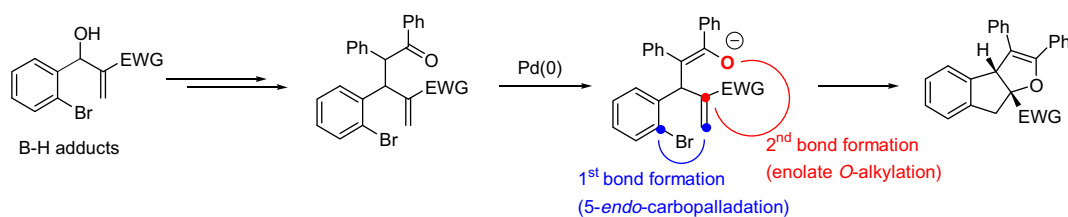
sulfur stereochemistry	S _R	S _S
hydrophobic parameter (log <i>k_w</i>)	1.91	3.88
hemolytic activity (EC ₅₀ /mM)	0.38	> 1.0



Synthesis of dihydroindenofuran scaffold via a Pd-catalyzed 5-endo-trig cyclization/enolate O-alkylation cascade

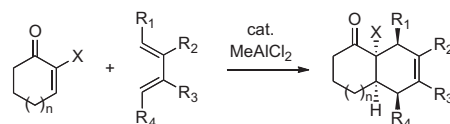
pp 4648–4652

Eun Sun Kim, Ko Hoon Kim, Sunhong Park, Jae Nyoung Kim*

**Diels–Alder routes to angularly halogenated cis-fused bicyclic ketones: readily accessible cyclynone intermediates**

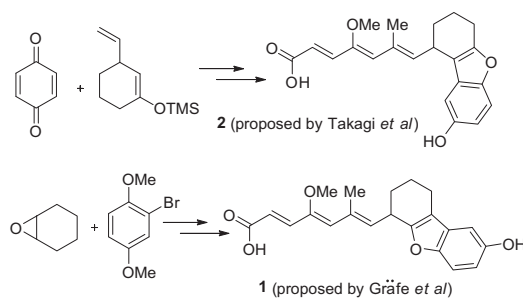
pp 4653–4654

Jun Hee Lee*, Woo Han Kim, Samuel J. Danishefsky*

**Total syntheses of the proposed structures of cuevaena A**

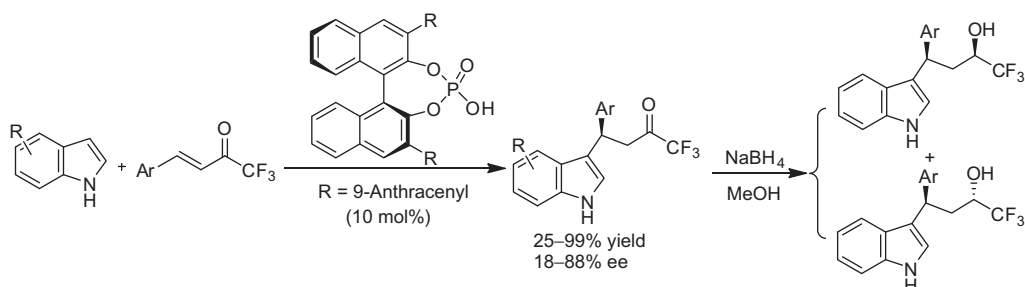
pp 4655–4657

Yunxiu Chen, Jianfeng Huang, Bo Liu*

**Chiral Brønsted acid-catalyzed regio- and enantioselective arylation of α,β -unsaturated trifluoromethyl ketones**

pp 4658–4661

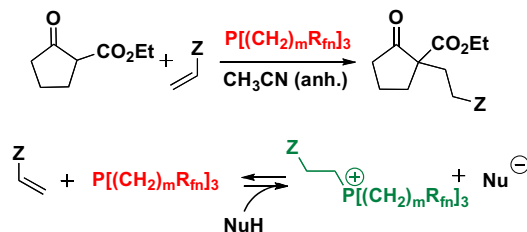
Zeng-kai Pei, Yan Zheng, Jing Nie, Jun-An Ma*



Thermomorphic fluoros phosphines as organocatalysts for Michael addition reactions

pp 4662–4665

Carolina Gimbert, Adelina Vallribera*, John A. Gladysz*, Markus Jurisch

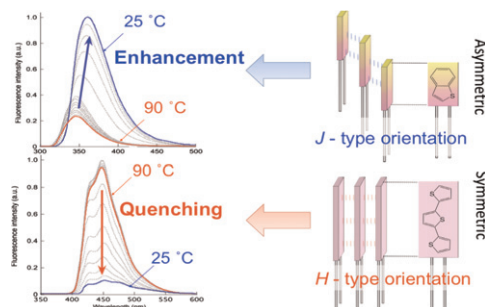


The fluoros phosphines $\text{P}[(\text{CH}_2)_m\text{R}_{fn}]_3$ ($\text{R}_{fn} = (\text{CF}_2)_{n-1}\text{CF}_3$; $m/n = 2/8, 3/8, 3/10$) are efficient nucleophilic catalysts of Michael addition reactions. They can be easily recycled based upon their highly temperature-dependent solubilities (thermomorphism), with recovery by simple liquid/solid phase separation. The phosphonium salt formed by reaction of the nucleophilic phosphine with the α,β -unsaturated system appears to be a significant component of the catalyst rest state.

Controlled emission enhancement and quenching by self-assembly of low molecular weight thiophene derivatives

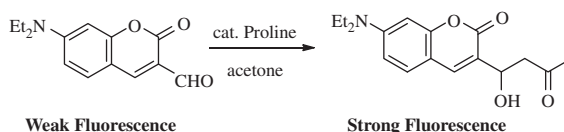
pp 4666–4669

Koji Miyamoto, Tsuyoshi Sawada, Hirokuni Jintoku, Makoto Takafuji, Takashi Sagawa, Hirota Iihara*

**Highly selective and sensitive fluorescence turn-on probe for proline**

pp 4670–4672

Gun-Joong Kim, Hae-Jo Kim*

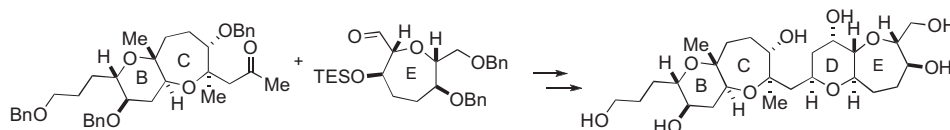


A weakly fluorescent coumarinyl aldehyde was transformed into a strongly fluorescent aldol product by a catalytic amount of proline.

**Synthesis of the BC/DE ring model of brevisin for confirmation of the structure around the acyclic junction**

pp 4673–4676

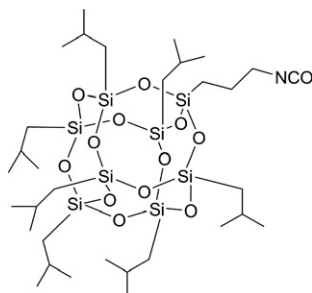
Takefumi Kuranaga, Masayuki Satake*, Daniel G. Baden, Jeffrey L. C. Wright, Kazuo Tachibana*



The use of polyhedral oligomeric silsesquioxane (POSS) as a soluble support for organic synthesis: a case study with a POSS-bound isocyanate scavenger reagent

pp 4677–4680

Mark York*, Richard A. Evans



*Corresponding author

Supplementary data available via ScienceDirect

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