

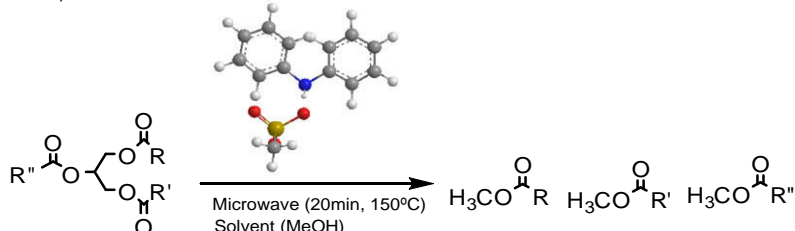
Tetrahedron Letters Vol. 50, No. 37, 2009

Contents

COMMUNICATIONS

Diphenylammonium salt catalysts for microwave assisted triglyceride transesterification of corn and soybean oil for biodiesel production pp 5175–5177

Mark W. Majewski, Scott A. Pollack, Veronica A. Curtis-Palmer *

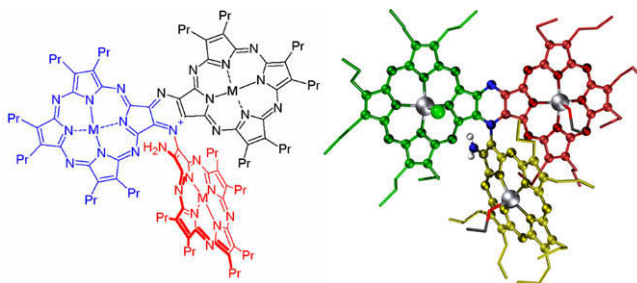


Diphenylammonium salts as catalysts for triglyceride transesterification have been investigated. Catalysts studied, such as diphenylammonium mesylate, were able to catalyze the transesterification process. Open atmosphere reactions and microwave-assisted reactions are considered and compared. Additionally, the study helps substantiate the advantage of microwave assisted technology in organic synthesis.

Serendipitous synthesis of trimetallic porphyrazine triads

pp 5178–5181

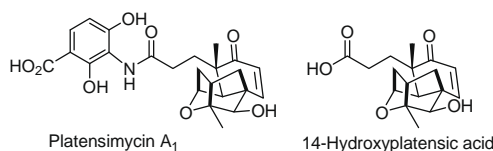
Tomasz Goslinski, Chang Zhong, Matthew J. Fuchter, Andrew J. P. White, Anthony G. M. Barrett *, Brian M. Hoffman *



Isolation, enzyme-bound structure and activity of platensimycin A₁ from *Streptomyces platensis*

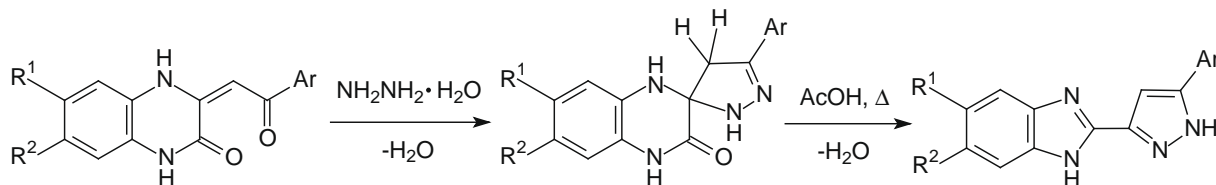
pp 5182–5185

Sheo B. Singh *, Hiranthi Jayasuriya, Kithsiri B. Herath, Chaowei Zhang, John G. Ondeyka, Deborah L. Zink, Sookhee Ha, Gopalakrishnan Parthasarathy, Joseph W. Becker, Jun Wang, Stephen M. Soisson

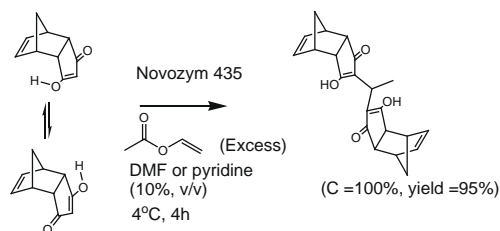


Efficient synthesis of 2-(pyrazol-3-yl)benzimidazoles from 3-arylacylidene-3,4-dihydroquinoxalin-2(1H)-ones and hydrazine hydrate via a novel rearrangement

pp 5186–5189

Vakhid A. Mamedov^{*}, Anna M. Murtazina, Aidar T. Gubaidullin, Elena A. Hafizova, Il'dar Kh. Rizvanov
A lipase catalyzed condensation reaction with a tricyclic diketone: yet another example of biocatalytic promiscuity

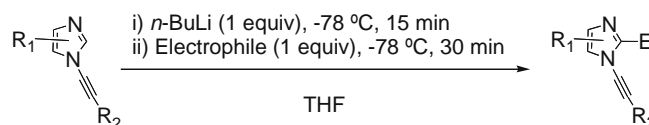
pp 5190–5193

Abir B. Majumder, Namakkal G. Ramesh^{*}, Munishwar N. Gupta^{*}

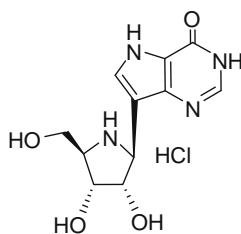
Novozyme 435, a commercial lipase, under low water conditions, behaved as both lipase and an aldolase in a single reaction resulting in a fast condensation of a tricyclic enol and acetaldehyde.


Lithiation and functionalization of 1-alkynylimidazoles at the 2-position

pp 5194–5197

Christophe Laroche, Sean M. Kerwin^{*}
Alternative route towards the convergent synthesis of a human purine nucleoside phosphorylase inhibitor—forodesine HCl

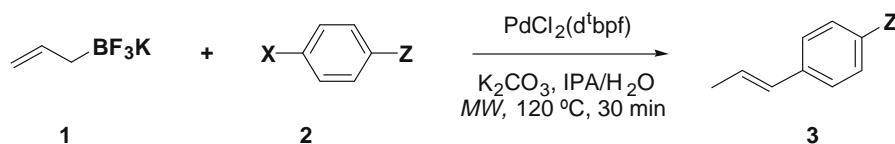
pp 5198–5200

Vivekanand P. Kamath^{*}, Jie Xue, Jesus J. Juarez-Brambila, Philip E. Morris Jr.

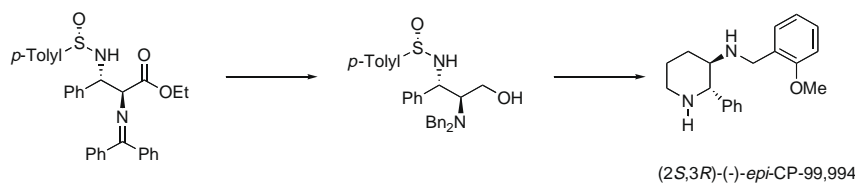
Forodesine HCl is currently being investigated as a potential therapeutic target for the control of T-cell proliferation. Herein we present an alternative route for the synthesis of the target molecule.

Remarkable regioselectivity in microwave-enhanced palladium-catalyzed allylation reaction involving allyltrifluoroborates and aryl halides

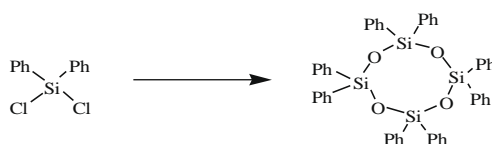
pp 5201–5204

Mohammad Al-Masum^{*}, Shahrina AlamMicrowave-enhanced cross-coupling of allyltrifluoroborates and aryl halides to produce *trans*- β -methyl styrenes.**Asymmetric synthesis of (2*S*,3*R*)-(-)-*epi*-CP-99,994 using sulfinimine-derived *anti*-2,3-diamino esters**

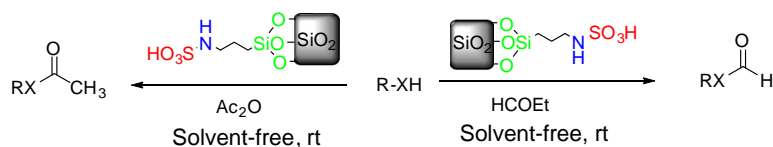
pp 5205–5207

Franklin A. Davis^{*}, Yanfeng Zhang**A simple synthesis of octaphenylcyclotetra(siloxane)**

pp 5208–5209

Mei Luo^{*}, Bing Yan^{*}An essential industrial monomer octaphenylcyclotetra(siloxane) or $(\text{Ph}_2\text{SiO})_4$ was obtained by very simple procedures. The product was confirmed by NMR, IR, MS, elemental analysis, and X-ray crystallography.**Silica-bonded *N*-propyl sulfamic acid as an efficient catalyst for the formylation and acetylation of alcohols and amines under heterogeneous conditions**

pp 5210–5214

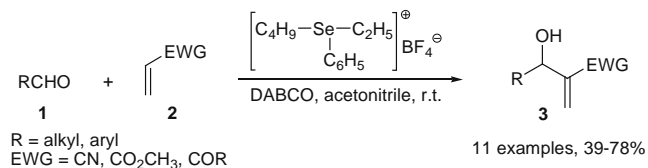
Khodabakhsh Niknam^{*}, Dariush Saberi

X = O, NH

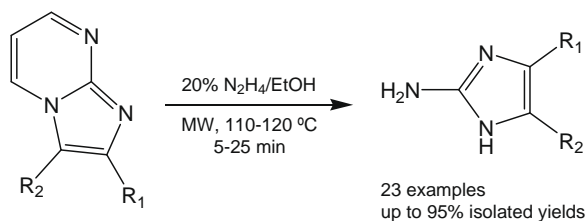
Silica-bonded *N*-propyl sulfamic acid (**SBNPSA**) was prepared by the reaction of 3-aminopropylsilica and chlorosulfonic acid in chloroform. This solid acid is employed as a catalyst for the formylation of alcohols and amines with ethyl formate at room temperature. Also, **SBNPSA** catalyzed acetylation of alcohols and amines with acetic anhydride at room temperature.

Selenium ionic liquid as efficient catalyst for the Baylis–Hillman reaction

pp 5215–5217

Eder J. Lenardão^{*}, Josiane de Oliveira Feijó, Samuel Thurow, Gelson Perin, Raquel G. Jacob, Claudio C. Silveira**Microwave-assisted synthesis of substituted 2-amino-1H-imidazoles from imidazo[1,2-a]pyrimidines**

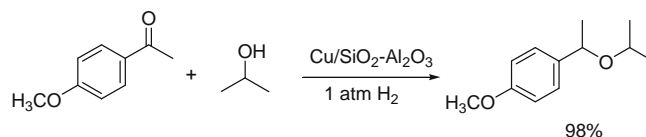
pp 5218–5220

D. S. Ermolat'ev, E. P. Svidritsky, E. V. Babaev, E. Van der Eycken^{*}

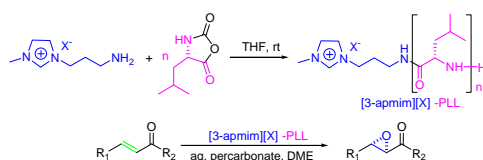
An efficient method for the synthesis of mono- and disubstituted 2-amino-1H-imidazoles via microwave-assisted hydrazinolysis of substituted imidazo[1,2-a]pyrimidines is reported. This high yielding protocol avoids strong acidic conditions.

**Bifunctional copper catalysts for an atom efficient ether synthesis**

pp 5221–5224

Federica Zaccheria, Rinaldo Psaro, Nicoletta Ravasio^{*}**Imidazolium-modified poly(L-leucine) catalyst: an efficient and recoverable catalyst for Juliá–Colonna reactions**

pp 5225–5227

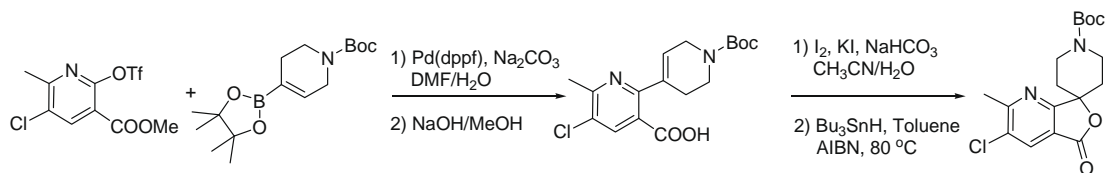
Wenwei Qiu, Linmei He, Qi Chen, Wanrong Luo, Zhichao Yu, Fan Yang^{*}, Jie Tang^{*}

A novel, easily recyclable imidazolium-modified poly(amino acid) catalyst was prepared. This catalyst exhibits high activity for the asymmetric epoxidation of α,β -unsaturated ketones without any pre-activation. Compared to classical Juliá–Colonna catalysts, this insoluble, powdery catalyst can dramatically reduce the reaction time and can be easily recycled by a simple filtration after the reaction. The recycled catalyst has been successfully reused for seven cycles without deterioration in catalytic efficiency.

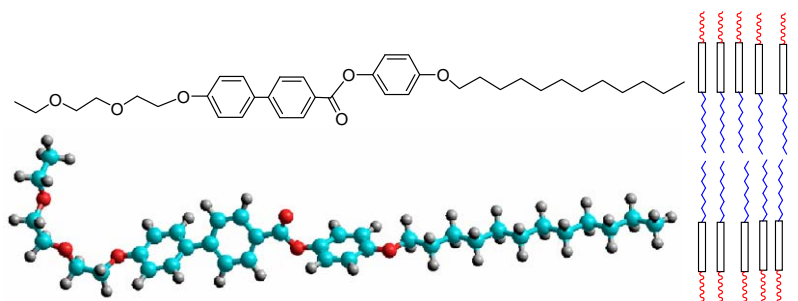


Preparation of 3,4-fused-spiro[furan-5(5H),4'-piperidin]-2-one

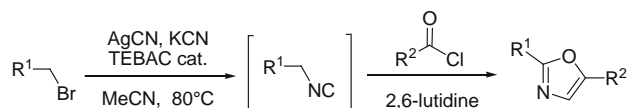
pp 5228–5230

Jian Liu^{*}, Tianying Jian, Liangqin Guo, Tzvetomira Atanasova, Ravi P. Nargund**4'-(2-(2-Ethoxyethoxy)ethoxy)biphenyl-4-carboxylic acid—a polar smectogen for amphipathic liquid crystals**

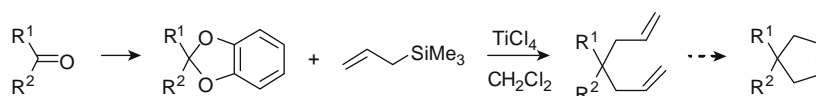
pp 5231–5234

Rosana S. Montani, Claudia M. Heggulustoy, Pablo G. Del Rosso, Bertrand Donnio, Daniel Guillon, Raúl O. Garay^{*}**One-pot synthesis of oxazoles using isocyanide surrogates**

pp 5235–5237

Laurent El Kaim^{*}, Laurence Grimaud^{*}, Aurélie Schiltz**Diallylation of 2,2-dialkylbenzodioxoles from TiCl4-mediated allylsilane reaction**

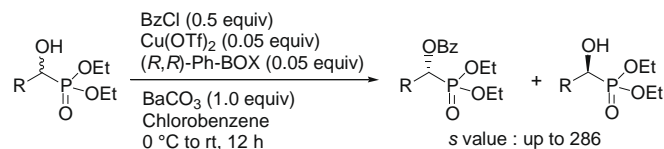
pp 5238–5240

Nicolas Galy, Delphine Moraleda, Maurice Santelli^{*}

Nonenzymatic kinetic resolution of *racemic* α -hydroxyalkylphosphonates with chiral copper catalyst

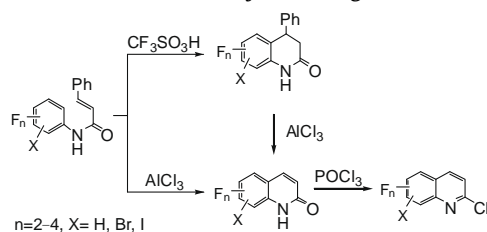
pp 5241–5244

Yosuke Demizu, Atsushi Moriyama, Osamu Onomura *

**Synthesis of polyfluorinated 4-phenyl-3,4-dihydroquinolin-2-ones and quinolin-2-ones via superacidic activation of *N*-(polyfluorophenyl)cinnamamides**

pp 5245–5247

Larisa Yu. Safina, Galina A. Selivanova, Konstantin Yu. Koltunov, Vitalij D. Shteingarts *

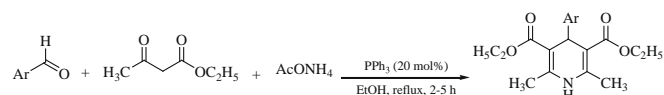


The cyclization reactions of a series of polyfluorocinnamamides in triflic acid yield 4-phenyl-3,4-dihydroquinolin-2-ones, which include a polyfluorinated benzene moiety as a part of the quinoline scaffold. These compounds undergo dehydrophenylation in the presence of AlCl_3 to give the corresponding polyfluoroquinolin-2-ones which were converted into polyfluorinated 2-chloroquinolines on treatment with POCl_3 .

**An efficient one-step synthesis of 1,4-dihydropyridines via a triphenylphosphine-catalyzed three-component Hantzsch reaction under mild conditions**

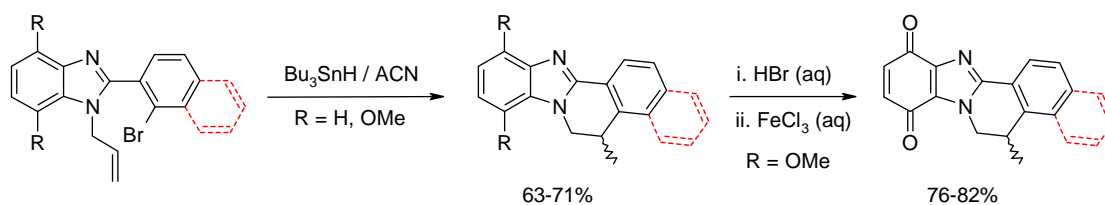
pp 5248–5250

Abdelmadjid Debache *, Wassima Ghalem, Raouf Boulcina, Ali Belfaitah, Salah Rhouati, Bertrand Carboni

**Synthesis of aryl ring-fused benzimidazolequinones using 6-*exo-trig* radical cyclizations**

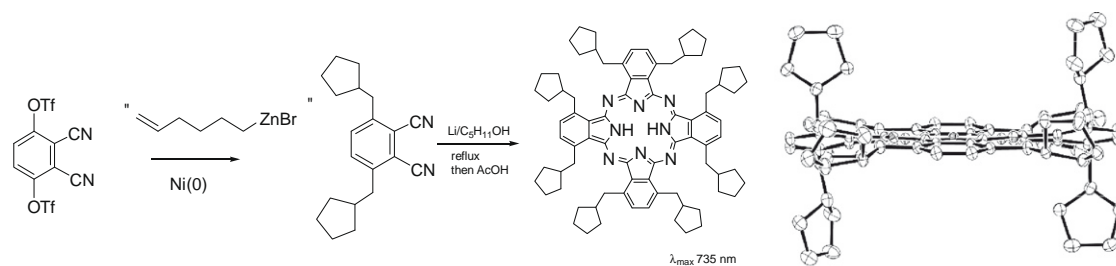
pp 5251–5253

Eoin Moriarty, Fawaz Aldabbagh *

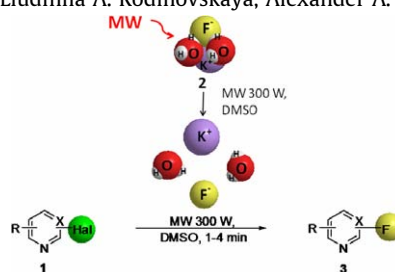


Phthalocyanines bearing bulky cycloalkylmethyl substituents on non-peripheral sites

pp 5254–5256

Andrew N. Cammidge^{*}, Chung-Hui Tseng, Isabelle Chambrier, David L. Hughes, Michael J. Cook^{*}**Microwave-assisted synthesis of substituted fluoroazines using KF·2H₂O**

pp 5257–5259

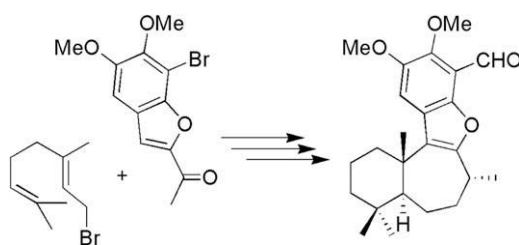
Anatoliy M. Shestopalov^{*}, Alexander E. Fedorov, Liudmila A. Rodinovskaya, Alexander A. Shestopalov, Andrei A. Gakh^{*}

X = CH, C-CN, N; Hal = Cl, Br; R = H, Alk, Ar.

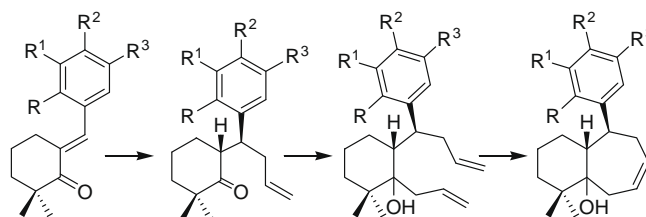
This Letter describes a new microwave-assisted fluorination of azines using hydrated potassium fluoride in untreated DMSO under atmospheric conditions. It is thought that microwave irradiation promotes desolvation of the fluorine anion leading to halide nucleophilic substitution.

A concise synthesis of the bioactive meroterpenoid natural product (±)-liphagal, a potent PI3K inhibitor

pp 5260–5262

Goverdhan Mehta^{*}, Nachiket S. Likhite, C. S. Ananda Kumar**Synthetic studies towards bioactive frondosins: rapid framework access and diversity creation**

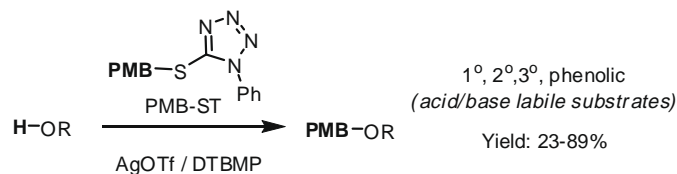
pp 5263–5266

Goverdhan Mehta^{*}, Nachiket S. Likhite

A mild method for the protection of alcohols using a *para*-methoxybenzylthio tetrazole (PMB-ST) under dual acid–base activation

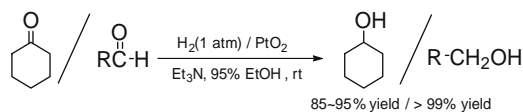
pp 5267–5269

Santosh R. Kotturi, Jason S. Tan, Martin J. Lear *


Platinum–triethylamine-catalyzed hydrogenation of aldehydes and cyclohexanones

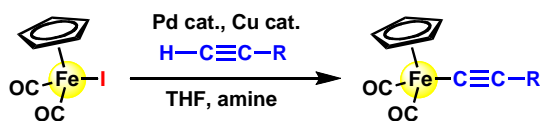
pp 5270–5273

Feng Gao, Qiao-Hong Chen, Feng-Peng Wang *


Synthesis of (1-alkynyl)dicarbonylcyclopentadienyliron complexes by palladium-catalyzed Sonogashira-type carbon–iron bond formation

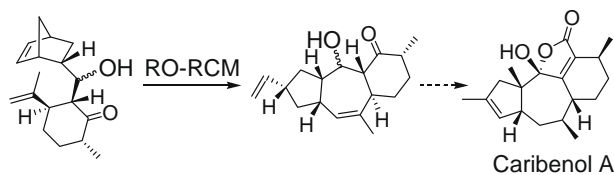
pp 5274–5276

Ryotaro Nakaya, Shigeo Yasuda, Hideki Yorimitsu *, Koichiro Oshima *


Expedient asymmetric synthesis of a functionalized 5-7-6 fused tricyclic skeleton present in caribanol A through ring opening–ring closing metathesis of a norbornene derivative

pp 5277–5279

Sujit Mondal, Ram N. Yadav, Subrata Ghosh *



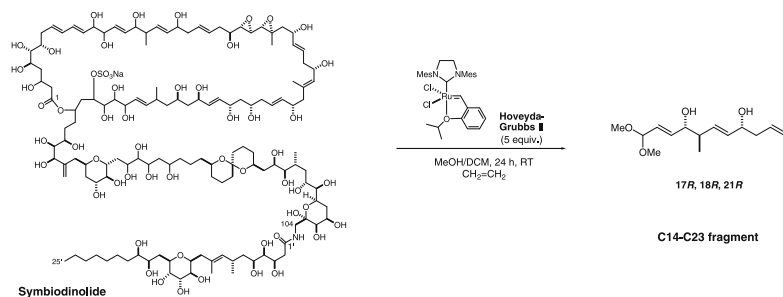
A concise synthesis of the tricyclic core structure present in highly biologically active terpenoids caribanol A is described using RO-RCM of a norbornene derivative.



Determination of absolute configuration of C14–C23 fragment in symbiodinolide

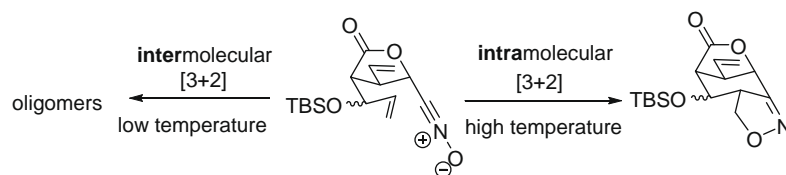
pp 5280–5282

Chunguang Han, Yoshi Yamano, Masaki Kita, Hiroyoshi Takamura, Daisuke Uemura *

**Remarkable temperature effect on intramolecular [3+2] cyclization**

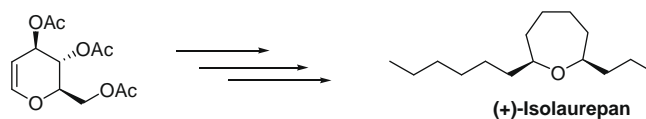
pp 5283–5284

Alexey Gromov, Valentin Enev, Johann Mulzer *

**A new, enantioselective synthesis of (+)-isolaurepan**

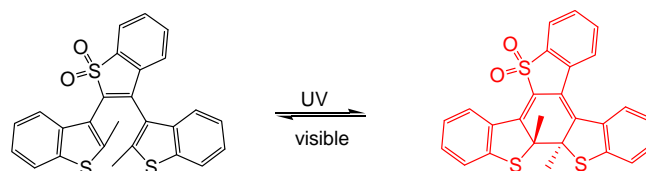
pp 5285–5287

Gonzalo Pazos, Manuel Pérez, Zoila Gándara, Generosa Gómez *, Yagamare Fall *


**The considerable photostability improvement of photochromic terarylene by sulfone group**

pp 5288–5290

Yong-Chul Jeong, Chunji Gao, In Su Lee, Sung Ik Yang *, Kwang-Hyun Ahn *



*Corresponding author

 Supplementary data available via ScienceDirect

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