



Tetrahedron Vol. 64, No. 40, 2008

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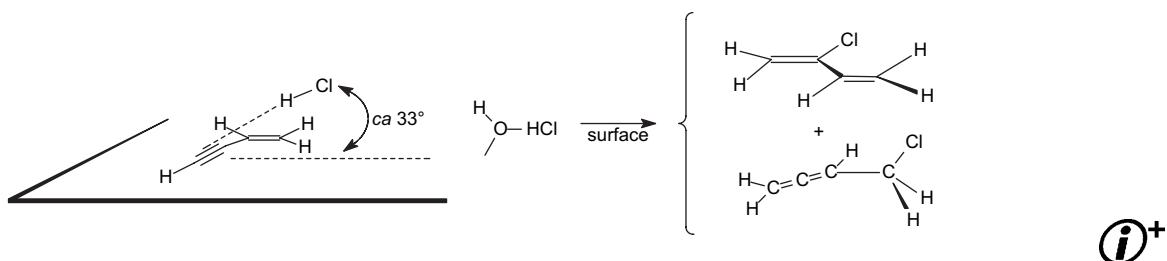
ARTICLES

Gas phase surface-catalyzed HCl addition to vinylacetylene: motion along a catalytic surface.

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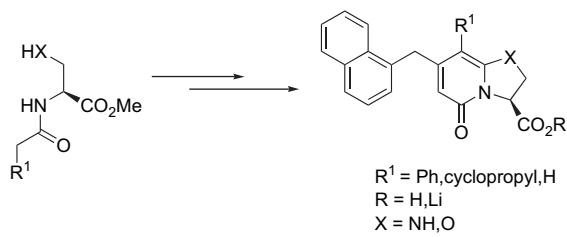
Experiment and theory

Linda M. Mascavage, Fan Zhang-Plasket, Philip E. Sonnet, David R. Dalton*

**Synthesis and evaluation of dihydroimidazolo and dihydrooxazolo ring-fused 2-pyridones—targeting pilus biogenesis in uropathogenic bacteria**

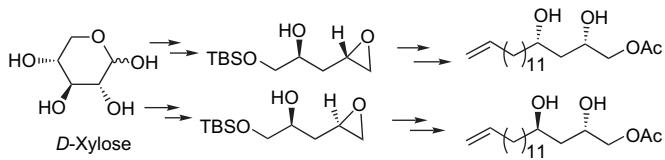
pp 9368–9376

Nils Pemberton, Jerome S. Pinkner, Sofie Edvinsson, Scott J. Hultgren, Fredrik Almqvist*



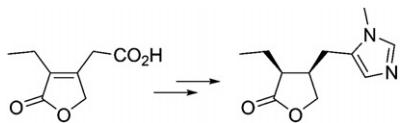
Chiral building blocks from D-xylose and their application in synthesis of avocadotriol monoacetate
 Jian Gao, Zhi-Bin Zhen, Ya-Jun Jian, Yikang Wu*

pp 9377–9383



A chemoenzymatic approach to (+)-pilocarpine
 René Csuk*, Barbara Woeste

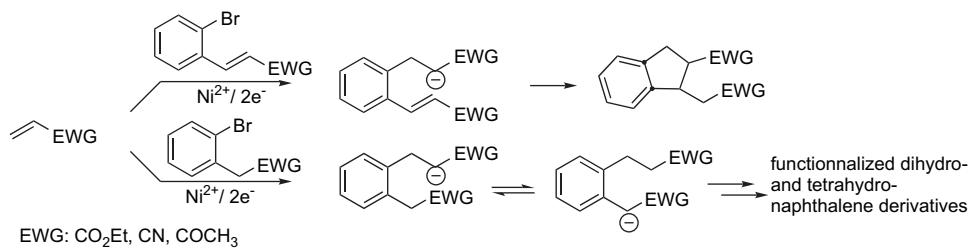
pp 9384–9387



Synthesis of functionalized benzannulated compounds

Sylvie Condon*, Amane El Ouarradi, Estelle Métay, Eric Léonel, Maryse Bourdonneau, Jean-Yves Nédélec

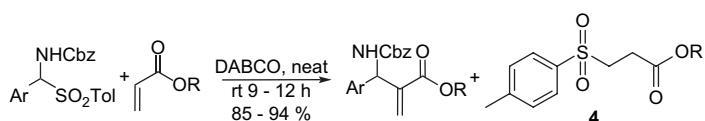
pp 9388–9395



α -Amido sulfones: novel substrates for the practical and efficient aza-Morita–Baylis–Hillman reaction under neat conditions

Biswanath Das*, Kongara Damodar, Nikhil Chowdhury, Darshanala Saritha, Bommenna Ravikanth, Maddeboina Krishnaiah

pp 9396–9400



Tipranavir analogous 3-sulfonylanilidotetronic acids: new synthesis and structure-dependent anti-HIV activity
Rainer Schobert*, Ralf Stehle, Hauke Walter

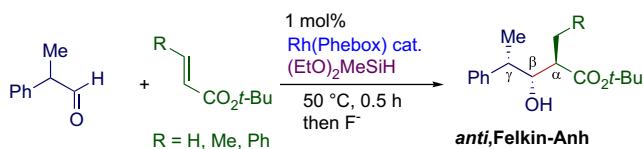
pp 9401–9407



Felkin–Anh selectivity in Rh(bisoxazolinylphenyl)-catalyzed reductive aldol coupling reaction: asymmetric synthesis of stereotriads

Toru Hashimoto, Jun-ichi Ito, Hisao Nishiyama*

pp 9408–9412

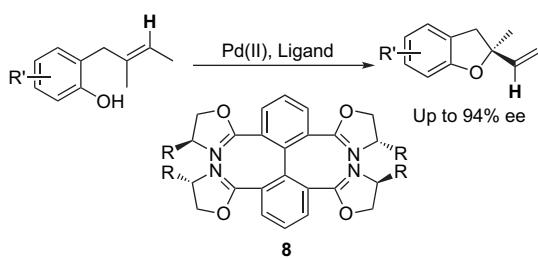


The catalytic reductive aldol coupling of 2-phenylpropionaldehyde and acrylate derivatives with rhodium-bisoxazolinyl catalysts resulted in high Felkin–Anh selectivity and high enantiomeric excesses.



Pd-catalyzed asymmetric Wacker-type cyclization of o-trisubstituted allylphenols by use of tetraoxazoline ligands
Feijun Wang, Guoqiang Yang, Yong Jian Zhang, Wanbin Zhang*

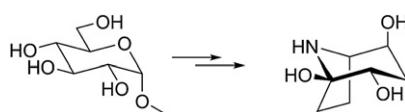
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Total synthesis of calystegine A₇

René Csuk*, Erik Prell, Stefan Reiβmann

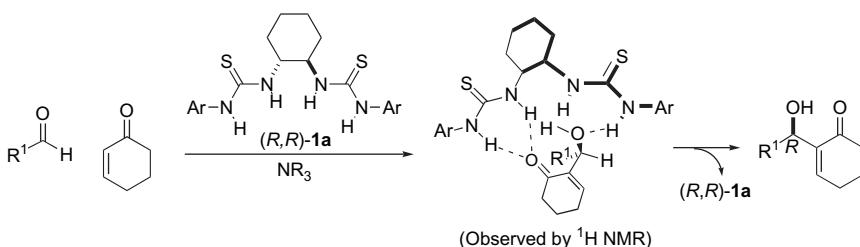
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Thiourea-catalyzed Morita–Baylis–Hillman reaction

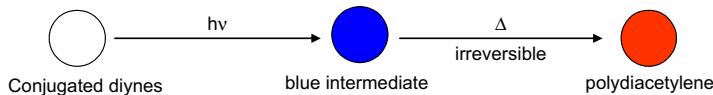
Yoshihiro Sohtome, Nobuko Takemura, Rika Takagi, Yuichi Hashimoto, Kazuo Nagasawa*

pp 9423–9429

**New irreversible thermochromic polydiacetylenes**

Laurent Rougeau, Dominique Picq*, Marie Rastello, Yves Frantz

pp 9430–9436

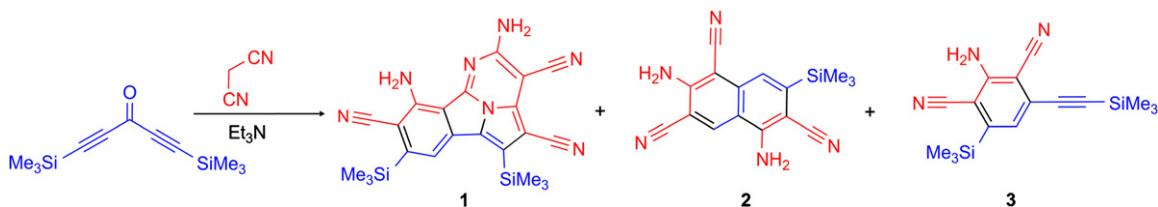


A new family (unsymmetrical diynes) of irreversible thermochromic compounds is reported. The polymerisation mechanism is demonstrated.

An efficient one-pot synthesis of strongly fluorescent (hetero)arenes polysubstituted with amino and cyano groups

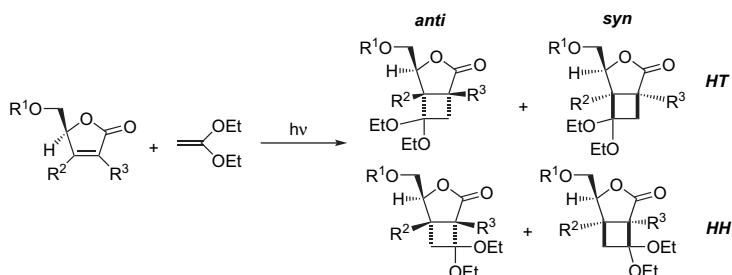
Chenyi Yi, Carmen Blum, Shi-Xia Liu*, Gabriela Frei, Antonia Neels, Helen Stoeckli-Evans, Samuel Leutwyler, Silvio Decurtins

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**Regio- and diastereoselectivity studies on the photocycloaddition of ketene diethyl acetal to chiral 2(5*H*)-furanones**

Albert Rustullet, Marta Racamonde, Ramon Alibés*, Pedro de March, Marta Figueredo, Josep Font

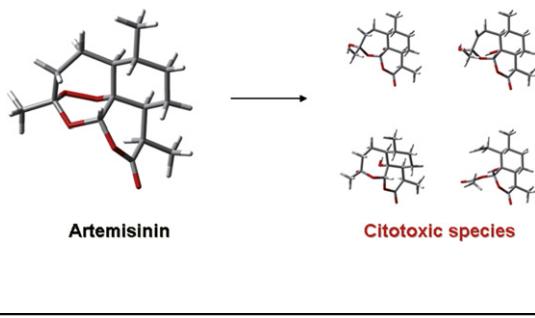
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A theoretical study on the decomposition mechanism of artemisinin

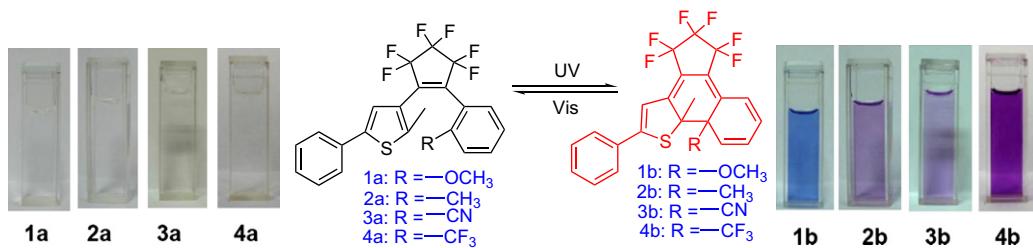
Pamela Moles, Mónica Oliva, Vicent S. Safont*

pp 9448–9463

**New photochromic diarylethenes with a six-membered aryl unit**

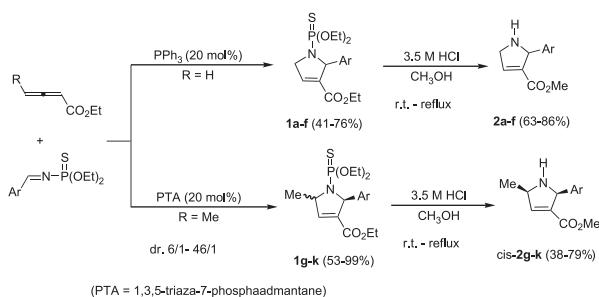
Shouzhi Pu*, Congbin Fan, Wenjuan Miao, Gang Liu

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**Nucleophilic phosphine-catalyzed [3+2] cycloaddition of allenes with N-(thio)phosphoryl imines and acidic methanolysis of adducts N-(thio)phosphoryl 3-pyrrolines: a facile synthesis of free amine 3-pyrrolines**

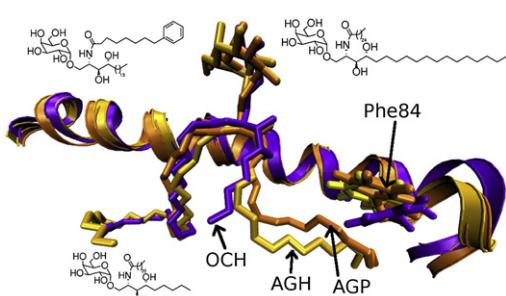
Bo Zhang, Zhengrong He, Silong Xu, Guiping Wu, Zhengjie He*

pp 9471–9479

**Molecular dynamics simulation study on the interaction of KRN 7000 and three analogues with human CD1d**

Eric Hénon*, Manuel Dauchez, Arnaud Haudrechy, Aline Banchet

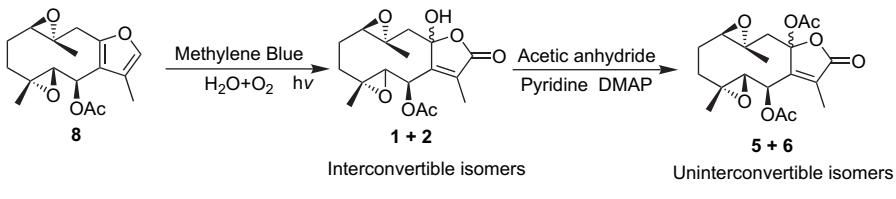
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Isolation, structural elucidation, and chemical transformation of interconvertible 8,12-hemiketal germacranolide sesquiterpenoids from *Salvia castanea* Diels f. *tomentosa* Stib.

pp 9490–9494

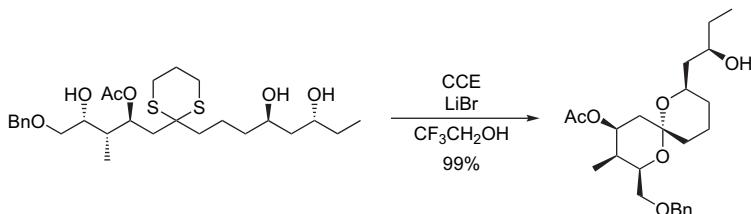
Gang Xu, Li-Yan Peng, Ai-Jun Hou, Jing Yang, Quan-Bin Han, Hong-Xi Xu, Qin-Shi Zhao*



Synthesis of a spiroacetal moiety of antitumor antibiotic ossamycin by anodic oxidation

pp 9495–9506

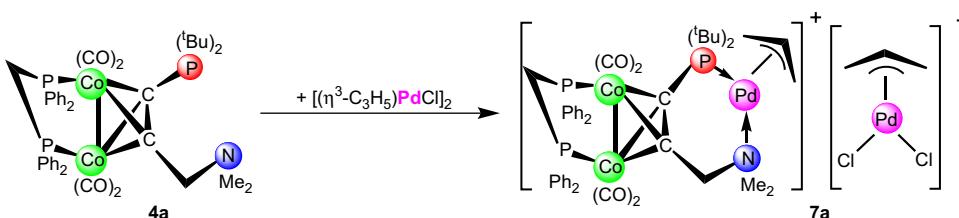
Eriko Honjo, Noriki Kutsunura, Yuichi Ishikawa, Shigeru Nishiyama*



Preparation and characterization of cobalt-containing P,N-ligands and an unusual palladium complex ion pair: their applications in amination reactions

pp 9507–9514

You-Chen Hsiao, Wen-Yuan Chiang, Chia-Ming Weng, Fung-E Hong*

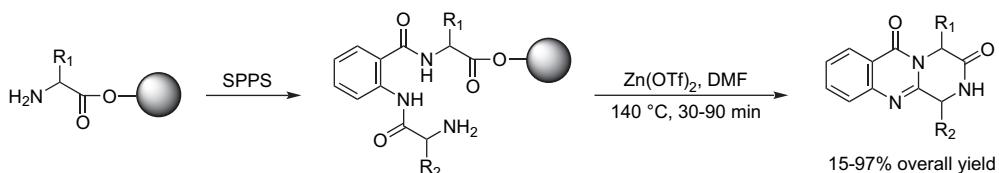


A unique palladium complex ion pair 7a was obtained from the reaction of a P,N-ligand 4a with $[(\eta^3\text{-C}_3\text{H}_5)\text{PdCl}]_2$. Satisfactory efficiencies were observed for employing 7a as catalyst precursor in amination reactions.

Zinc triflate-catalyzed synthesis of pyrazino[2,1-*b*]quinazoline-3,6-diones

pp 9515–9520

Ming-Chung Tseng, Yen-Ho Chu*

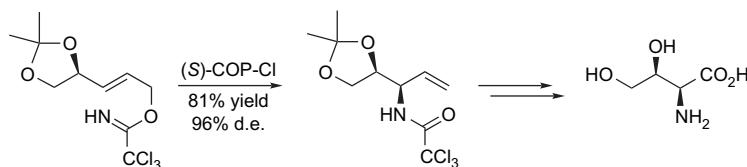


SPPS = solid-phase peptide synthesis

Studies on the aza-Claisen rearrangement of 4,5-dihydroxylated allylic trichloroacetimidates: the stereoselective synthesis of (2*R*,3*S*)- and (2*S*,3*S*)-2-amino-3,4-dihydroxybutyric acids

pp 9521–9527

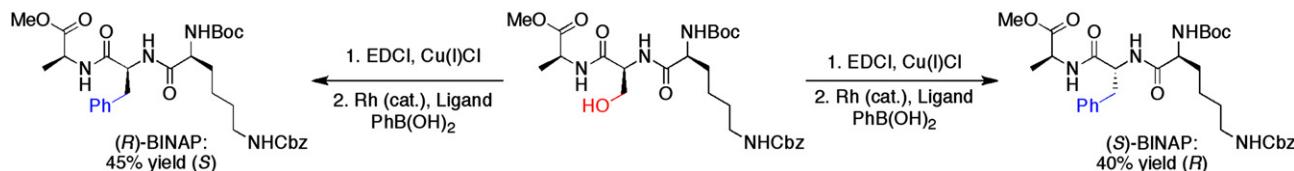
Michael D. Swift, Andrew Sutherland*



Peptide modification through site-selective residue interconversion: application of the rhodium-catalysed 1,4-addition of aryl siloxanes and boronates

pp 9528–9539

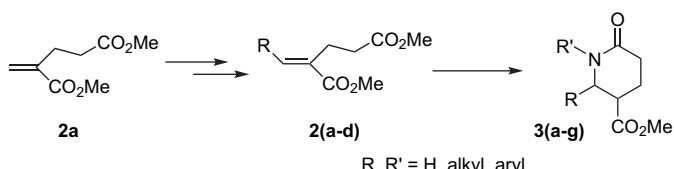
Christopher J. Chapman, Jonathan D. Hargrave, Gerwyn Bish, Christopher G. Frost*



An efficient synthetic route to functionalized δ -lactams

pp 9540–9543

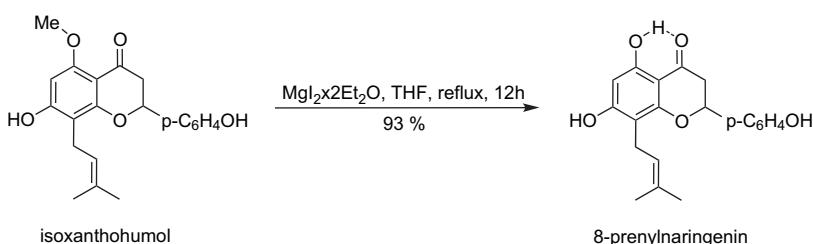
Ali Samarat, Jihène Ben Kraïem, Taïcir Ben Ayed, Hassen Amri*



An efficient synthesis of the phytoestrogen 8-prenylnaringenin from isoxanthohumol with magnesium iodide etherate

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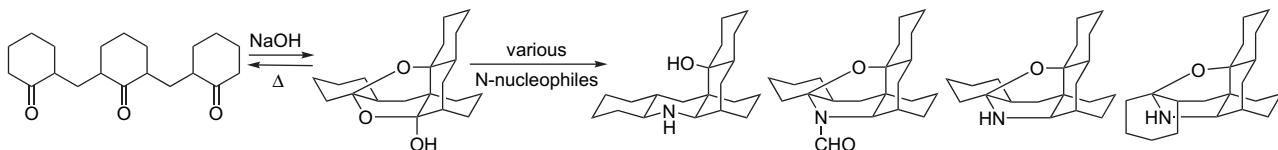
Miroslaw Anioł*, Katarzyna Szymańska, Anna Żołnierczyk



An alicyclic 1,5,9-triketone 2,6-bis[(2-oxocyclohexyl)methyl]cyclohexanone, its cyclic form and reactions with N-nucleophiles

pp 9548–9554

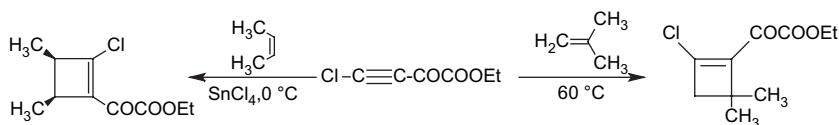
Taisia I. Akimova, Natalia S. Kravchenko*, Vladimir A. Denisenko



Synthesis and unusual [2+2]-cycloaddition reactions of ethyl 4-chloro-2-oxobut-3-ynoate with unactivated alkenes

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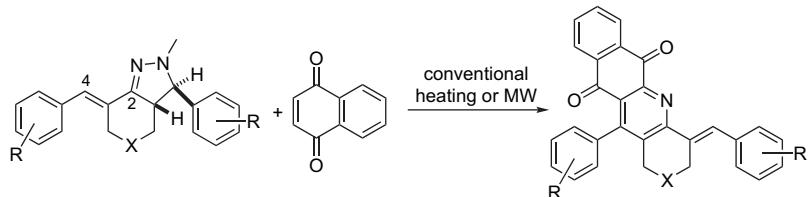
Andrey B. Koldobskii*, Ekaterina V. Solodova, Ivan A. Godovikov, Valery N. Kalinin



The synthesis of highly functionalised pyridines using Ghosez-type reactions of dihydropyrazoles

pp 9561–9566

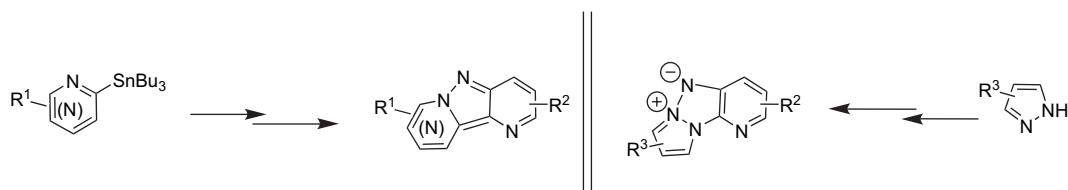
Federica Catti, Paula S. Kiuru, Alexandra M.Z. Slawin, Nicholas J. Westwood*



An efficient route to polynitrogen-fused tricycles via a nitrene-mediated N–N bond formation under microwave irradiation

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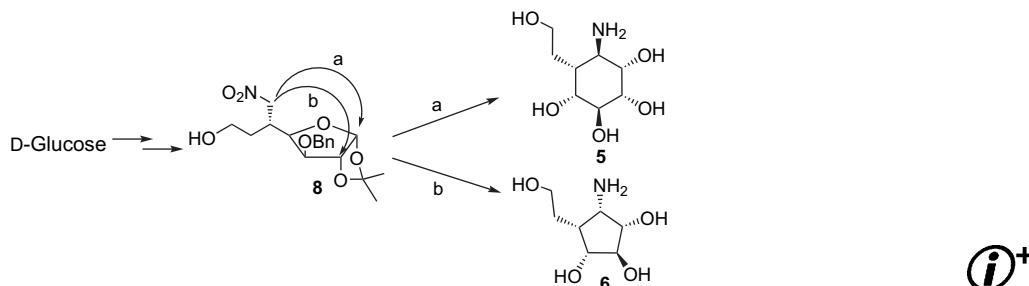
Coralie Nyffenegger, Eric Pasquinet, Franck Suzenet, Didier Poullain, Christian Jarry, Jean-Michel Léger, Gérard Guillaumet*



Synthesis of five and six membered aminocyclitols: stereoselective Michael and Henry reaction approach with D-glucose derived α,β -unsaturated ester

pp 9574–9580

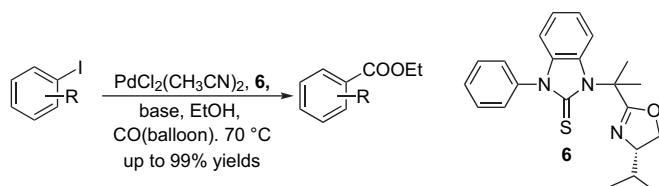
Chaitali Chakraborty, Vinod P. Vyawahare, Vedavati G. Puranik, Dilip D. Dhavale*



Alkoxy carbonylation of aryl iodides catalyzed by Pd with a thiourea type ligand under balloon pressure of CO

pp 9581–9584

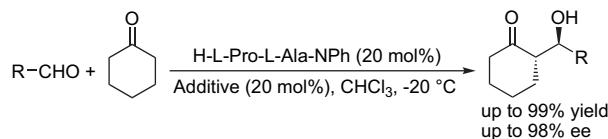
Jing Liu, Bo Liang, Dongxu Shu, Yanhe Hu, Zhen Yang*, Aiwen Lei*



Proline-based dipeptides with two amide units as organocatalyst for the asymmetric aldol reaction of cyclohexanone with aldehydes

pp 9585–9591

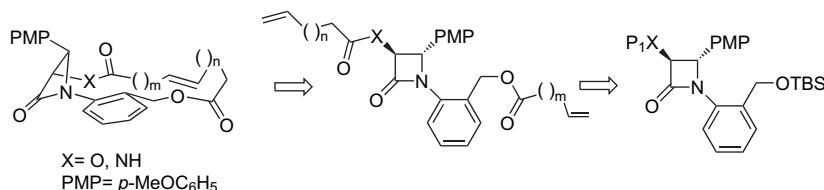
Fubin Chen, Shi Huang, Hui Zhang, Fengying Liu, Yungui Peng*



Synthesis of 1,3-bridged β -lactams embedded in a macrocyclic structure

pp 9592–9598

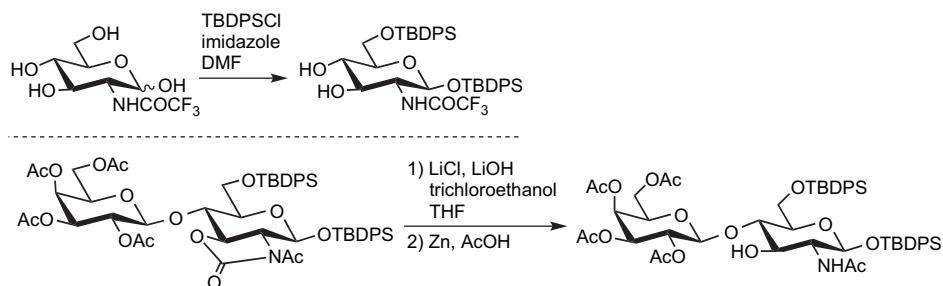
Miguel A. Sierra*, Mamen Rodríguez-Fernández, María José Mancheño, Luis Casarrubios, Mar Gómez-Gallego



Regio- and chemoselective manipulation under mild conditions on glucosamine derivatives for oligosaccharide synthesis and its application toward N-acetyl-D-lactosamine and Lewis X trisaccharide

Yasuhito Nagai, Naoyuki Ito, Israt Sultana, Takeshi Sugai*

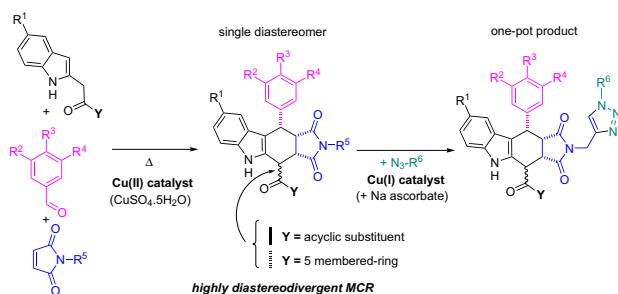
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Diastereodivergence and appendage diversity in the multicomponent synthesis of aryl-pyrrolo-tetrahydrocarbazoles

Daniel Royer, Yung-Sing Wong*, Sophie Plé, Angèle Chiaroni, Khalid Diker, Jean Lévy

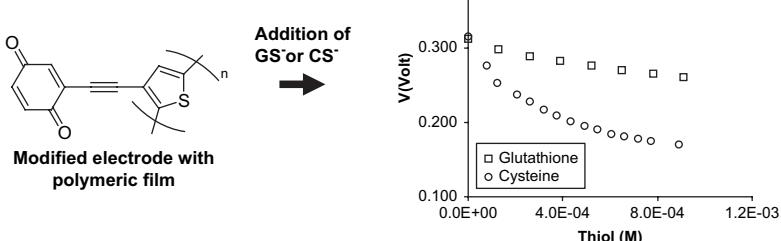
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Preparation and characterisation of a quinone-functionalised polythiophene film on a modified electrode. Application to the potentiometric determination of glutathione and cysteine concentrations

Stéphanie Étienne, Muriel Matt, Thierry Oster*, Mohammad Samadi, Marc Beley*

pp 9619–9624

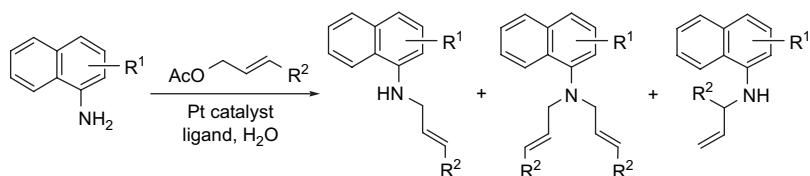


The addition of thiols on quinone moiety induces variation of the potential of the electrode.

Platinum-catalyzed allylation of aminonaphthalenes with allylic acetates in water

Kim-Hong Gan, Ciou-Jyu Jhong, Yi-Jen Shue, Shyh-Chyun Yang*

pp 9625–9629

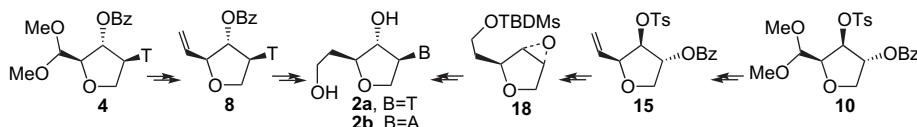


The platinum-catalyzed allylation of aminonaphthalenes with allylic acetates using water as solvent could give the corresponding *N*-allylic aminonaphthalenes in good yields.

Synthesis of 2S-(2-hydroxyethyl)-3R-hydroxy-4S-(thymin-1-yl or adenin-9-yl)-tetrahydrofuran

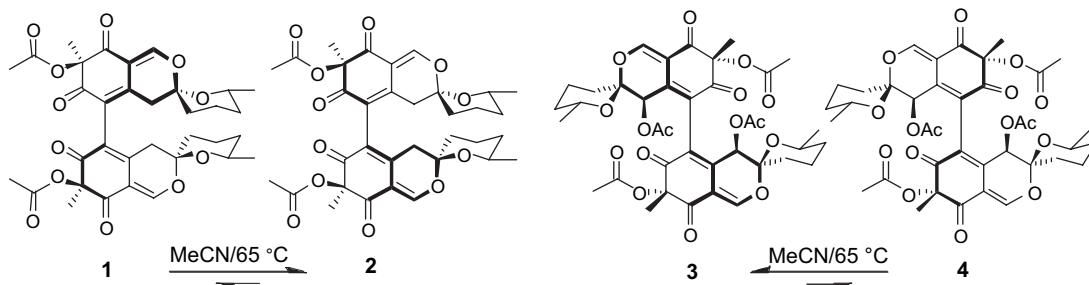
Ying-Chun Liu, Jun Zhang, Lei Xing, Zhen-Jun Yang*, Liang-Ren Zhang, Li-He Zhang

pp 9630–9635

**Bis-spiro-azaphilones and azaphilones from the fungi *Chaetomium cochlioides* VTh01 and *C. cochlioides* CTh01**

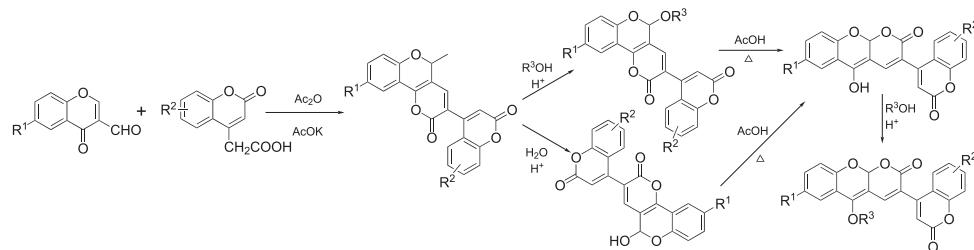
Nutchanan Phonkerd, Somdej Kanokmedhakul*, Kwanjai Kanokmedhakul, Kasem Soytong, Samran Prabpai, Palangpon Kongsearee

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**Convenient synthesis and unusual reactivity of 2-oxo-2H,5H-pyranos[3,2-c]chromenes**

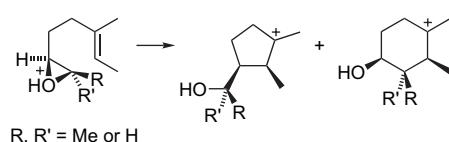
Margita Lácová, Henrieta Stankovičová*, Andrej Boháč, Bibiána Kotzianová

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**Five- and six-membered ring formation from the intramolecular reaction of a protonated oxirane and alkene**

James M. Coxon*, Michael A.E. Townsend

pp 9654–9661



*Corresponding author

† Supplementary data available via ScienceDirect



Full text of this journal is available, on-line from **ScienceDirect**. Visit www.sciencedirect.com for more information.

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