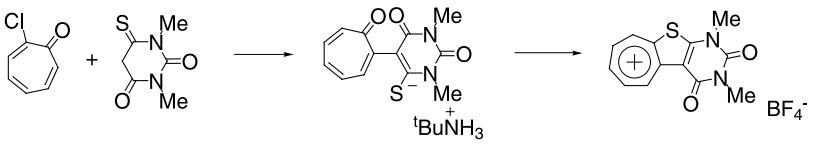
Graphical abstracts

Novel synthesis and properties of 7,9-dimethylcyclohepta[*b*]pyrimido[5,4-*d*]thiophen-8(7*H*),10(9*H*)-dionylium tetrafluoroborate: autorecycling oxidation of some alcohols under photo-irradiation

Tetrahedron 59 (2003) 4929

Shin-ichi Naya, Hisashi Miyama, Kenji Yasu, Tohru Takayasu and Makoto Nitta*

Department of Chemistry, School of Science and Engineering, Waseda University, Shinjuku-ku, Tokyo 169-8555, Japan



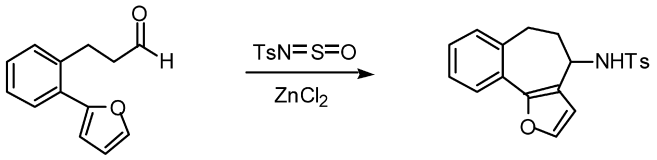
An efficient synthesis of furyl sulfonamides from the reaction of furan with in situ generated *N*-tosyl imines

Tetrahedron 59 (2003) 4939

Albert Padwa,* Atsuhiku Zanka, Michael P. Cassidy and Joel M. Harris

Department of Chemistry, Emory University, 1515 Pierce Drive, Atlanta, GA 30322, USA

Treatment of an aldehyde and furan with *N*-sulfinyl-*p*-toluenesulfonamide/zinc chloride leads to the formation of furyl sulfonamides via an in situ generated *N*-tosyl imine intermediate. In one case, a novel 4-tosylamino-5,6-dihydro-4*H*-3-oxa-benz[*e*]azulene was obtained by intramolecular aromatic substitution of the activated imine at the 3-position of the furan ring.

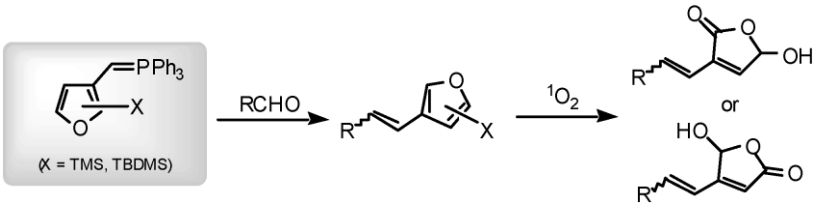


Development of new Wittig reagent, silylfuranmethylid, and its reactivity

Tetrahedron 59 (2003) 4945

Katsunori Tanaka, Toshiyuki Hata, Hirokazu Hara and Shigeo Katsumura*

School of Science and Technology, Kwansei Gakuin University, Gakuen 2-1, Sanda, Hyogo 669-1337, Japan

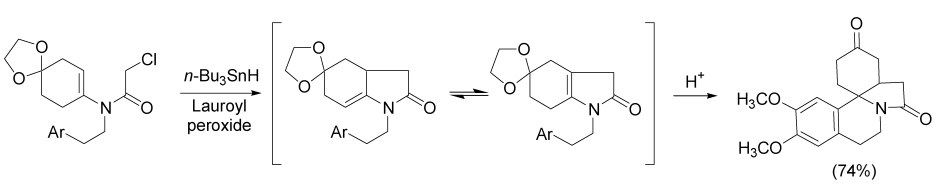


Oxidative radical cyclization on enamide systems using *n*-Bu_3SnH and dilauroyl peroxide

Tetrahedron 59 (2003) 4953

Miguel A. Guerrero, Raymundo Cruz-Almanza and Luis D. Miranda*

Instituto de Química, Universidad Nacional Autónoma de México, Circuito Exterior S.N., Ciudad Universitaria, Coyoacán, México, D.F. 04510, Mexico

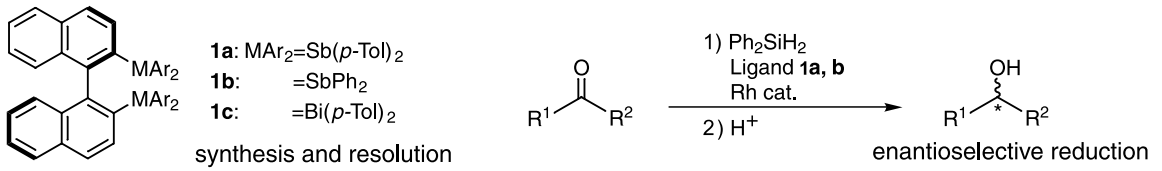


New optically active organoantimony (BINASb) and bismuth (BINABi) compounds comprising a 1,1′-binaphthyl core: synthesis and their use in transition metal-catalyzed asymmetric hydrosilylation of ketones

Tetrahedron 59 (2003) 4959

Shuji Yasuike,[a] Satoru Okajima,[a] Kentaro Yamaguchi,[b] Hiroko Seki[b] and Jyoji Kurita[a,*]

[a]*Faculty of Pharmaceutical Sciences, Hokuriku University, Kanazawa-machi, Kanazawa 920-1181, Japan*
[b]*Chemical Analysis Center, Chiba University, 1-33, Yayoicho, Inage-ku, Chiba 263-8322, Japan*

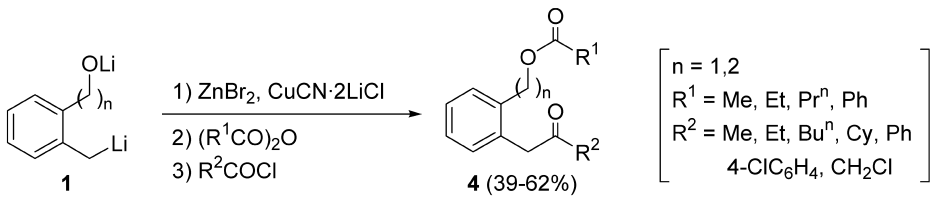


Chemoselective acylation of some oxidofunctionalised organolithium compounds

Tetrahedron 59 (2003) 4967

Miguel Yus* and Joaquín Gomis

Departamento de Química Orgánica, Facultad de Ciencias, Universidad de Alicante, Apdo. 99, E-03080 Alicante, Spain

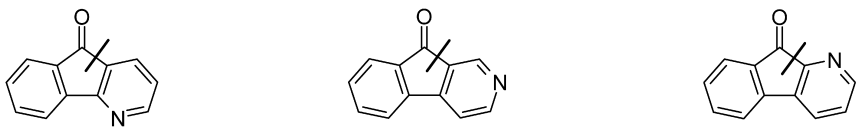


Synthesis and metallation of 2-(pyridyl)benzoic acids and ethyl 2-(pyridyl)benzoates: a new route to azafluorenones

Tetrahedron 59 (2003) 4973

Anne-Sophie Rebstock, Florence Mongin,* François Trécourt and Guy Quéguiner

Laboratoire de Chimie Organique Fine et Hétérocyclique, UMR 6014, IRCOF, Place E. Blondel, BP 08, 76131 Mont-Saint-Aignan Cédex, France

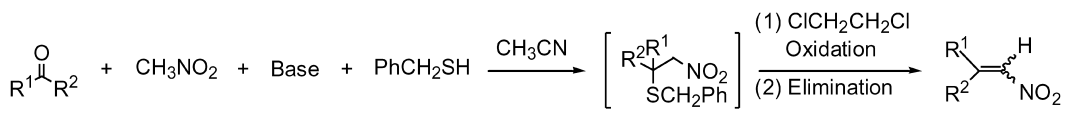


A one-pot, two step synthesis of 2,2-disubstituted 1-nitroalkenes

Tetrahedron 59 (2003) 4979

Yeong-Jiunn Jang,[a] Wen-Wei Lin,[a] Yuh-Kuo Shih,[a] Ju-Tsung Liu,[b] Ming-Hsing Hwang[c] and Ching-Fa Yao[a,*]

[a]*Department of Chemistry, National Taiwan Normal University 88, Sec. 4, Tingchow Road, Taipei 116, Taiwan, ROC*
[b]*Army Force of Military Police School, P.O. Box 90092 Wugu, Taipei 248, Taiwan, ROC*
[c]*Applied Life Science and Health, Chia Nan University of Pharmacy and Science 60, Sec. 1, Erh-Ten Road, Jen-Te, Tainan 717, Taiwan, ROC*

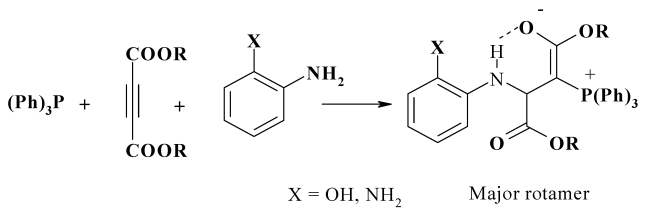


Chemoselective synthesis of stable phosphorus ylides containing a β-amino group

Tetrahedron 59 (2003) 4993

Mohammad Reza Islami,* Zahra Hassani, Hassan Sheibani, Bahareh Abdolahzadeh and Nazanin Etminan

Department of Chemistry, Shahid Bahonar University of Kerman, Kerman 76169, Iran



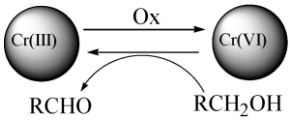
X = OH, NH_2 Major rotamer

Chromium(VI) supported and entrapped on silica and zirconia as recyclable materials for oxidation of alcohols

Tetrahedron 59 (2003) 4997

Michelangelo Gruttadauria,[a,*] Leonarda F. Liotta,[b] Giulio Deganello[b,c] and Renato Noto[a]

[a]*Dipartimento di Chimica Organica 'E. Paternò', Viale delle Scienze, Parco d'Orleans II, 90128 Palermo, Italy*
[b]*ISMN-CNR sezione di Palermo, via Ugo La Malfa 153, 90146 Palermo, Italy*
[c]*Dipartimento di Chimica Inorganica e Analitica 'S. Cannizzaro', Viale delle Scienze, Parco d'Orleans II, 90128, Palermo, Italy*

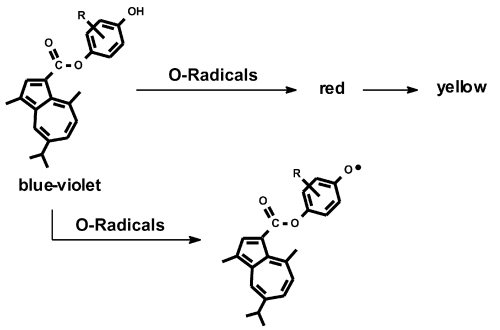


Guaiazulene-based phenolic radical scavengers: synthesis, properties, and EPR studies of their reaction with oxygen-centred radicals

Tetrahedron 59 (2003) 5003

Emanuela Franchi,[a] Giovanni Ingrosso,[a,*] Fabio Marchetti[a] and Calogero Pinzino[b,*]

[a]*Dipartimento di Chimica e Chimica Industriale, Università di Pisa, Via Risorgimento 35, 56126 Pisa, Italy*
[b]*Istituto per i Processi Chimico-Fisici del C.N.R., Area della Ricerca di Pisa, Via G. Moruzzi 1, 56124 Pisa, Italy*

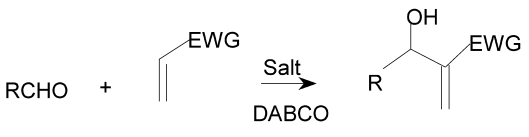


Salt effects on the Baylis–Hillman reaction

Tetrahedron 59 (2003) 5019

Anil Kumar* and Sanjay S. Pawar

Physical Chemistry Division, National Chemical Laboratory, Pune 411 008, India



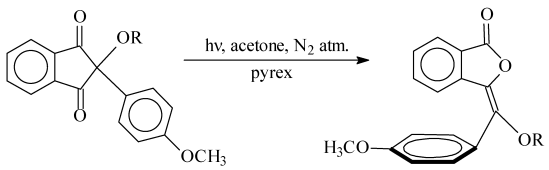
R = Ph / *o*-C_6H_4OMe / *p*-C_6H_4OMe

Stereoselective synthesis of *Z*-3-alkoxy-2-[(4′-methoxyphenyl)methylidene]-1(3*H*)-isobenzofuranones

Tetrahedron 59 (2003) 5027

Mona Kapoor,[a,*] Som N. Dhawan,[a] Satbir Mor,[a] Shubash C. Bhatia,[a] Satish C. Gupta[a] and Maninder S. Hundal[b]

[a]*Department of Chemistry, Kurukshetra University, Kurukshetra 136119, Haryana, India*
[b]*Department of Chemistry, Guru Nanak Dev University, Amritsar 143005, Punjab, India*



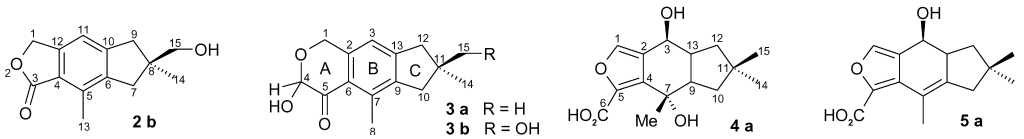
Isolation and structure elucidation of new sesquiterpenes of protoilludane origin from the fungus *Clavicorona divaricata*

Tetrahedron 59 (2003) 5033

Alberto Arnone, Gabriele Candiani, Gianluca Nasini* and Roberta Sinisi

Dipartimento di Chimica, Materiali ed Ingegneria Chimica 'Giulio Natta' del Politecnico, CNR-Istituto di Chimica del Riconoscimento Molecolare, Sezione 'Adolfo Quilico'; via Mancinelli 7, I 20131 Milano, Italy

Five novel sesquiterpenes, tsugicoline L (**2b**), divaricatines A (**3a**) and B (**3b**), 7-*epi*tsugicoline H (**4a**), and tsugicoline M (**5a**) have been isolated from solid cultures of the Basidiomycetae *Clavicorona divaricata*.

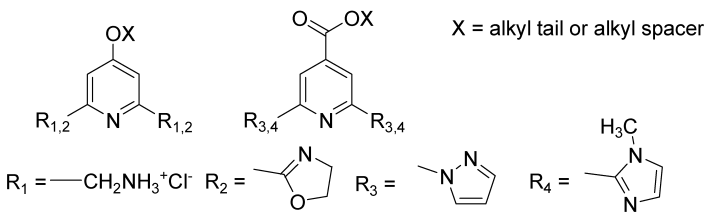


Synthesis of 4-functionalized terdendate pyridine-based ligands

Tetrahedron 59 (2003) 5039

Tina Vermonden,[a] Danuta Branowska,[b] Antonius T. M. Marcelis[a,*] and Ernst J. R. Sudhölter[a]

[a]*Laboratory of Organic Chemistry, Contribution from the Dutch Polymer Institute/Wageningen University, Dreijenplein 8, 6703 HB Wageningen, The Netherlands*
[b]*University of Podlasie, ul.3-go Maja 54, 08-110, Siedlce, Poland*

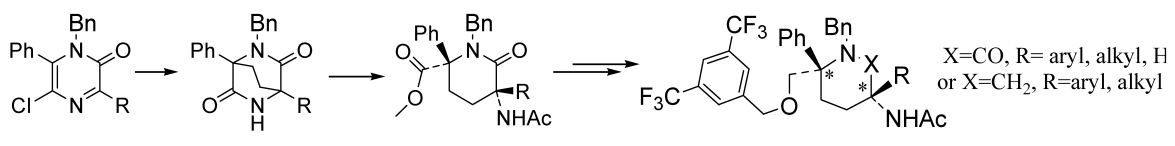


Stereoselective transformation of pyrazinones into substituted analogues of *cis*-5-amino-6-oxo-2-piperidinemethanol and *cis*-5-amino-2-piperidinemethanol

Tetrahedron 59 (2003) 5047

Joeri Rogiers, Wim M. De Borggraeve, Suzanne M. Toppet, Frans Compernolle and Georges J. Hoornaert*

Department of Organic Chemistry, Laboratorium voor Organische Synthese, K.U.Leuven, Celestijnenlaan 200F, B-3001 Leuven, Belgium

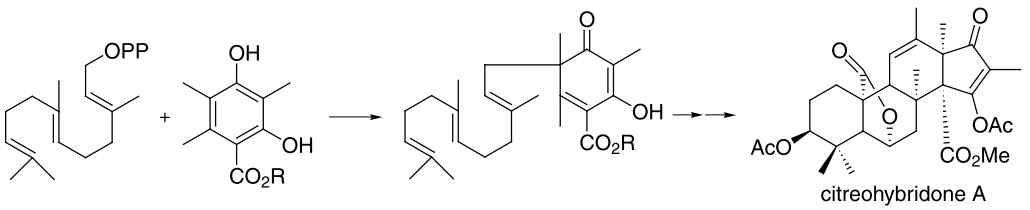


Meroterpenoids from *Penicillium citreo-viride* B. IFO 4692 and 6200 hybrid

Tetrahedron 59 (2003) 5055

Seiji Kosemura

Department of Chemistry, Hiyoshi Campus, Keio University, 4-1-1 Hiyoshi Kohoku-ku, Yokohama 223-8521, Japan



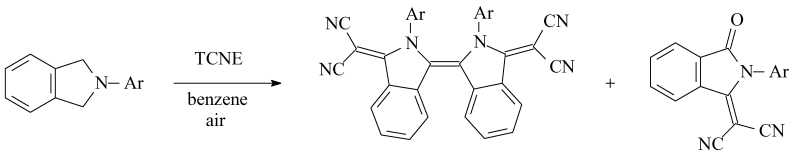
citreohybridone A

New reaction of ethenetetracarbonitrile with *N*-arylisoindolines

Tetrahedron 59 (2003) 5073

Dietrich Döpp,[a,*] Alaa A. Hassan,[b] Aboul-Fetouh E. Mourad,[b] Ahmed M. Nour El-Din,[b] Klaus Angermund,[c] Carl Krüger,[c] Christian W. Lehmann[c] and Jörg Rust[c]

[a]*Institut für Chemie, Universität Duisburg-Essen, D-47048 Duisburg, Germany*
[b]*Department of Chemistry, Faculty of Science, El-Minia University, El-Minia, A.R. Egypt*
[c]*Max-Planck-Institut für Kohlenforschung, D-45466 Mülheim (Ruhr), Germany*

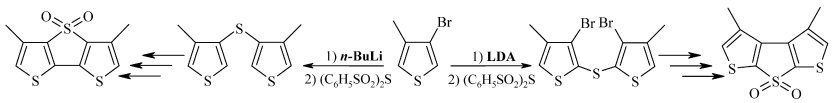


Synthesis, single crystal X-ray structure and optical properties of 3,4-dimethyl-dithieno[2,3-*b*:3′,2′-*d*]thiophene-7,7-dioxide

Tetrahedron 59 (2003) 5083

Giovanna Sotgiu,[a,*] Laura Favaretto,[a] Giovanna Barbarella,[a] Luciano Antolini,[b] Giuseppe Gigli,[c] Marco Mazzeo[c] and Alessandro Bongini[d]

[a]*Consiglio Nazionale Ricerche (ISOF), Via Gobetti 101, 40129 Bologna, Italy*
[b]*Dip. Chimica, Università di Modena e Reggio Emilia, Via Campi 183, 41100 Modena, Italy*
[c]*NNL (INFM), Dip. Ingegneria dell'Innovazione, via Arnesano, 73100 Lecce, Italy*
[d]*Dip. Chimica G. Ciamician, Università di Bologna, Via Selmi 2, 40126 Bologna, Italy*

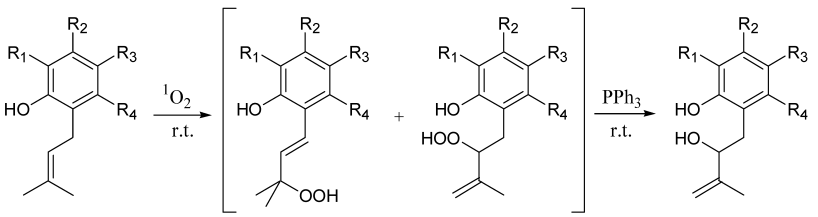


Regioselectivity in the ene reaction of singlet oxygen with *ortho*-prenylphenol derivatives

Tetrahedron 59 (2003) 5091

Jean-Jacques Helesbeux,[a] Olivier Duval,[a,*] David Guilet,[a] Denis Séraphin,[a] David Rondeau[b] and Pascal Richomme[a,b]

[a]*SONAS, UFR des Sciences Pharmaceutiques et Ingénierie de la Santé, 16 Bd Daviers, 49100 Angers, France*
[b]*SCAS, UFR Sciences, 2, Bd Lavoisier, 49045 Angers Cedex 01, France*

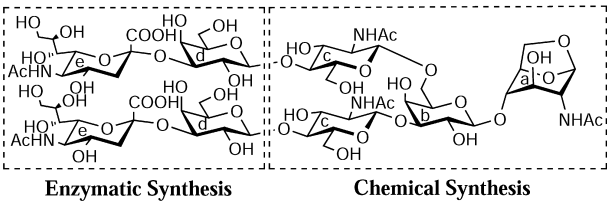


An efficient synthesis of a biantennary sialooligosaccharide analog using a 1,6-anhydro-β-lactose derivative as a key synthetic block

Tetrahedron 59 (2003) 5105

Tetsuya Furuike,[a] Kuriko Yamada,[a] Takashi Ohta,[b] Kenji Monde[a,b] and Shin-Ichiro Nishimura[a,b,c,*]

[a]*Sapporo Laboratory for Glycocluster Project, Japan Bioindustry Association, Hokkaido University, Sapporo 060-0810 Japan*
[b]*Laboratory for Bio-Macromolecular Chemistry, Division of Biological Sciences, Graduate School of Science, Hokkaido University, Kita-ku, Sapporo 060-0810 Japan*
[c]*Glycochemosynthesis Team, Research Center for Glycoscience, National Institute of Advanced Industrial Science and Technology (AIST), Sapporo 062-8517, Japan*



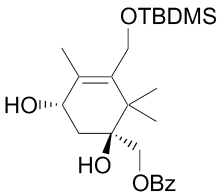
A concise enantioselective synthesis of a fully oxygen substituted ring A taxol precursor

Tetrahedron 59 (2003) 5115

Olivier Roy, Gerald Pattenden,* David C. Pryde and Claire Wilson

School of Chemistry, University of Nottingham, Nottingham NG7 2RD, UK

A concise synthesis of the oxygen substituted ring A compound found in Taxol® and Taxotere® starting from 2,2-dimethylcyclohexane-1,3-dione is described.



Selective recognition of CG interruption by 2′,4′-BNA having 1-isoquinolone as a nucleobase in a pyrimidine motif triplex formation

Tetrahedron 59 (2003) 5123

Yoshiyuki Hari, Satoshi Obika, Mitsuaki Sekiguchi and Takeshi Imanishi*

Graduate School of Pharmaceutical Sciences, Osaka University, 1-6 Yamadaoka, Suita, Osaka 565-0871, Japan