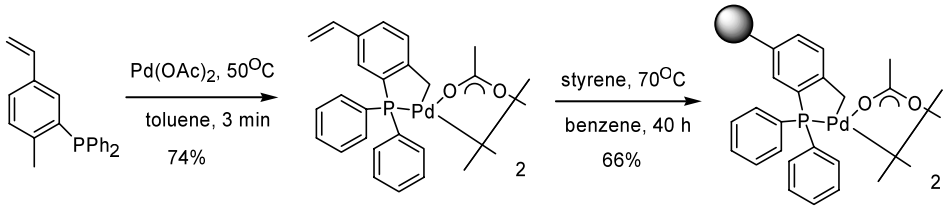
Tetrahedron Letters 44 (2003) 7565

Polystyrene-supported recyclable palladacycle catalyst for Heck, Suzuki and Sonogashira reactions

Chih-An Lin and Fen-Tair Luo*

Institute of Chemistry, Academia Sinica, Nankang, Taipei 11529, Taiwan, ROC

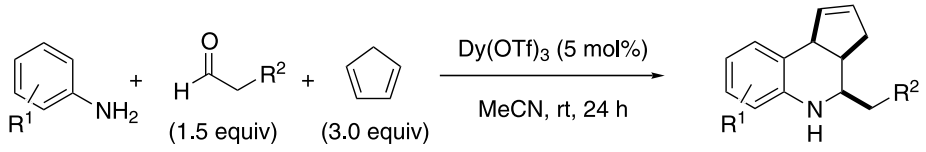


Tetrahedron Letters 44 (2003) 7569

Lanthanide(III)-catalyzed multi-component aza-Diels–Alder reaction of aliphatic *N*-arylaldimines with cyclopentadiene

David A. Powell and Robert A. Batey*

Department of Chemistry, University of Toronto, 80 St. George Street, Toronto, Ontario, Canada M5S 3H6

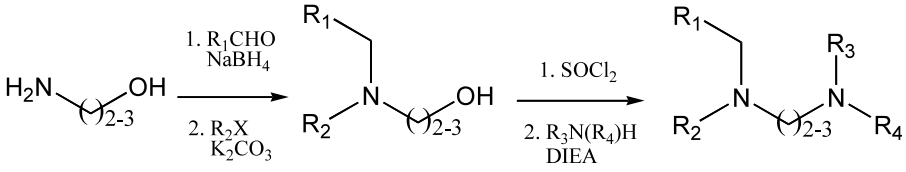


Tetrahedron Letters 44 (2003) 7575

Solution-phase parallel synthesis of substituted 1,2-ethyl and 1,3-propyl diamines

Ido D. Dagan and Christopher T. Lowden*

PPD Discovery, 3500 Paramount Parkway, Morrisville, NC 27560, USA

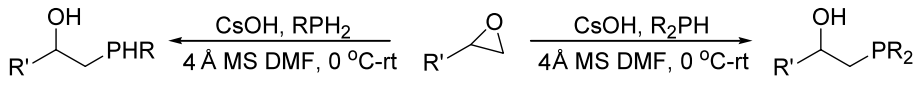


Tetrahedron Letters 44 (2003) 7579

CsOH-promoted epoxide ring-opening with phosphines: mild and efficient synthesis of monohydroxyphosphines

Daniel L. Fox, Ashlee A. Robinson, James B. Frank and Ralph Nicholas Salvatore*

Department of Chemistry, Western Kentucky University, 1 Big Red Way, Bowling Green, KY 42101-3576, USA



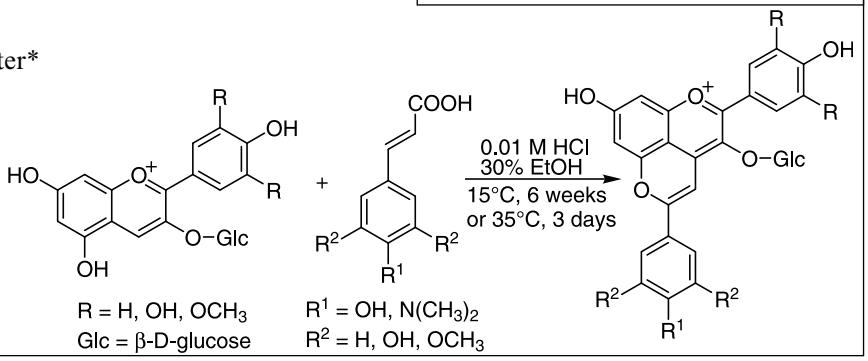
Tetrahedron Letters 44 (2003) 7583

A novel synthetic route to substituted pyranoanthocyanins with unique colour properties

Michael Schwarz and Peter Winterhalter*

Institute of Food Chemistry, Technical University of Braunschweig, Schleinitzstrasse 20, 38106 Braunschweig, Germany

A series of pyranoanthocyanins was prepared by one-step reaction of anthocyanins with substituted cinnamic acids.

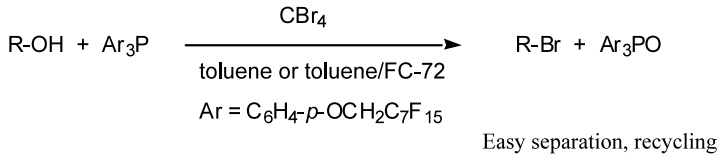


Tetrahedron Letters 44 (2003) 7589

Conversion of alcohols to bromides using a fluorous phosphine

Laurence Desmaris, Nathalie Percina, Louis Cottier and Denis Sinou*

Laboratoire de Synthèse Asymétrique, associé au CNRS, Université Claude Bernard Lyon 1, CPE Lyon, 43, boulevard du 11 novembre 1918, 69622 Villeurbanne cédex, France

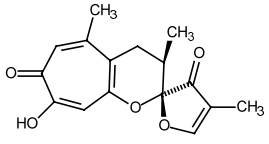


Tetrahedron Letters 44 (2003) 7593

Malettinin A: a new antifungal tropolone from an unidentified fungal colonist of *Hypoxylon* stromata (NRRL 29110)

Rihab F. Angawi,[a] Dale C. Swenson,[a] James B. Gloer[a,*] and Donald T. Wicklow[b]

[a]*Department of Chemistry, University of Iowa, Iowa City, IA 52242, USA*
[b]*Mycotoxin Research Unit, National Center for Agricultural Utilization Research, USDA, Peoria, IL 61604, USA*



1

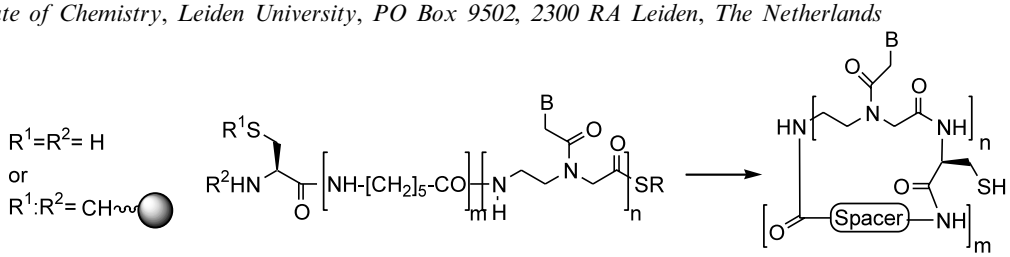
Malettinin A (**1**) has been isolated from cultures of an unidentified fungus encountered as a colonist of *Hypoxylon* stromata. The structure of **1** was proposed by analysis of NMR and MS data, and confirmed by X-ray diffraction analysis of a methanol adduct. Malettinin A shows significant activity in assays against *Aspergillus flavus*.

Tetrahedron Letters 44 (2003) 7597

Synthesis of macrocyclic peptide nucleic acid derivatives via intramolecular chemical ligation

Martijn C. de Koning, Dmitri V. Filippov, Gijsbert A. van der Marel, Jacques H. van Boom* and Mark Overhand*

Leiden Institute of Chemistry, Leiden University, PO Box 9502, 2300 RA Leiden, The Netherlands

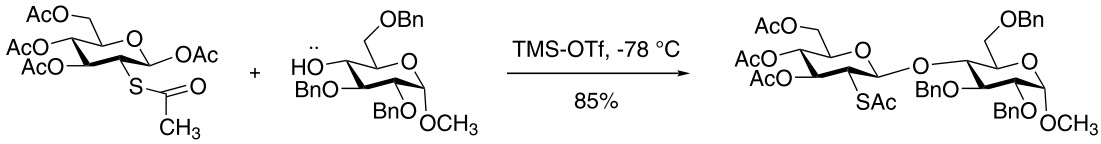


Tetrahedron Letters 44 (2003) 7601

Glycosylation with 2′-thio-*S*-acetyl participation

Spencer Knapp* and Brian A. Kirk

Department of Chemistry & Chemical Biology, Rutgers–The State University of New Jersey, 610 Taylor Road, Piscataway, NJ 08854-8087, USA



Tetrahedron Letters 44 (2003) 7607

Enantioselective synthesis of prelactone B using a proline-catalyzed crossed-aldol reaction

Petri M. Pihko* and Anniina Erkkilä

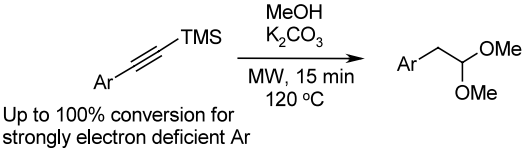
Helsinki University of Technology, Laboratory of Organic Chemistry, POB 6100, FIN-02015 HUT, Finland

Tetrahedron Letters 44 (2003) 7611

Microwave-assisted in situ deprotection and ω-methoxylation of TMS-protected aryl alkynes

Jenny Wettergren and Alexander B. E. Minidis*

Medicinal Chemistry, Local Discovery CNS & Pain Control, AstraZeneca R&D Södertälje, SE-151 85 Södertälje, Sweden



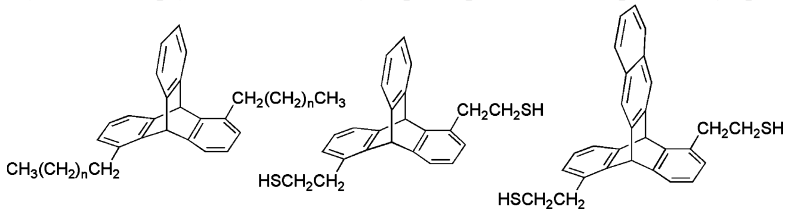
Tetrahedron Letters 44 (2003) 7613

Synthesis of self-orienting triptycene adsorbates for STM investigations

Adam J. Wolpaw, Ayal A. Aizer and Matthew B. Zimmt*

Department of Chemistry, Brown University, Providence, RI 02912, USA

The syntheses of three C_2 symmetric triptycenes with side groups to promote adsorption to graphite or gold electrodes are described.

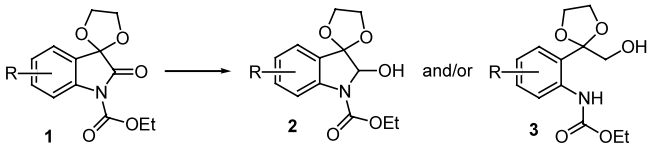


Tetrahedron Letters 44 (2003) 7617

Investigation of the selective reduction of isatin derivatives. Synthesis of α-hydroxyacetophenone derivatives and ethyl *spiro*-3,3-(ethylenedioxy)-2-hydroxyindoline carbamates

Simon J. Garden,* Marilza B. Côrrea and Angelo C. Pinto

Departamento de Química Orgânica, Universidade Federal do Rio de Janeiro, Ilha do Fundão, Rio de Janeiro CEP 21945-970, Brazil

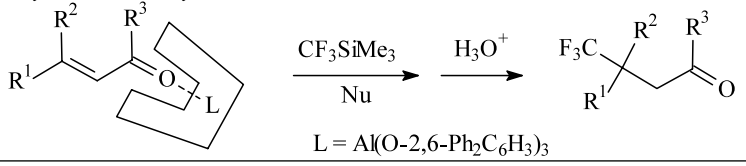


Tetrahedron Letters 44 (2003) 7623

Regioselective 1,4-trifluoromethylation of α,β-enones using '*protect-in-situ*' methodology

Dmitri V. Sevenard,[a,*] Vyacheslav Ya. Sosnovskikh,[b] Alexander A. Kolomeitsev,[c] Martin H. Königsmann[a] and Gerd-Volker Röschenthaler[a]

[a]*Institute of Inorganic & Physical Chemistry, University of Bremen, Leobener Strasse, 28334 Bremen, Germany*
[b]*Department of Chemistry, Ural State University, Lenina 51, 620083 Ekaterinburg, Russia*
[c]*Institute of Organic Chemistry, Murmanskaya 5, 02094 Kiev, Ukraine*



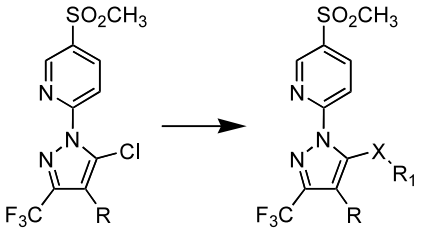
Tetrahedron Letters 44 (2003) 7629

Efficient synthesis of 5-alkyl amino and thioether substituted pyrazoles

Subas M. Sakya* and Bryson Rast

Veterinary Medicine Research and Development, Pfizer Inc., Groton, CT 06340, USA

Nucleophilic substitution reactions of 1-(4-methylsulfonyl-2-pyridyl)-5-chloro pyrazoles with various substitutions at the 4 position with amine nucleophiles and thiols occur under mild conditions to provide the 5-alkyl amino and thioether pyrazoles in high yields.

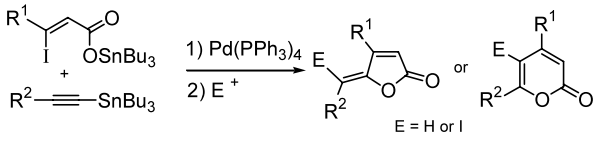


Tetrahedron Letters 44 (2003) 7633

Regio- and stereoselective preparation of γ-alkylidenebutenolides or α-pyrones using a Stille reaction and palladium-catalysed oxacyclisation sequence

Séverine Rousset,[a] Mohamed Abarbri,[a] Jérôme Thibonnet,[a,b] Jean-Luc Parrain[b,*] and Alain Duchêne[a,*]

[a]*Laboratoire de Physicochimie des Interfaces et des Milieux Réactionnels, Faculté des Sciences de Tours, Parc de Grandmont, 37200 Tours, France*
[b]*Laboratoire de Synthèse Organique, UMR 6009, Faculté des Sciences de Saint Jérôme, 13397 Marseille Cedex 20, France*

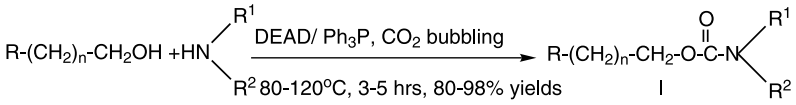


Tetrahedron Letters 44 (2003) 7637

A high yielding one-pot, novel synthesis of carbamate esters from alcohols using Mitsunobu's reagent

Devdutt Chaturvedi, Atul Kumar and S. Ray*

Medicinal Chemistry Division, Central Drug Research Institute, Lucknow 226001, India



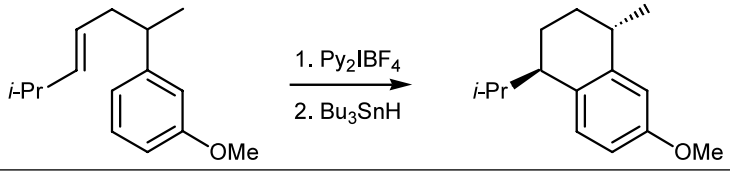
Tetrahedron Letters 44 (2003) 7641

Stereoselective synthesis of tetralins using cationic cyclisations

Ruth Appelbe, Mike Casey,* Aideen Dunne and Enrica Pascarella

Chemistry Department, The Centre for Synthesis and Chemical Biology and The Conway Institute of Biomolecular and Biomedical Research, University College Dublin, Dublin 4, Ireland

Tetralins, including the terpene calamenene, were prepared diastereoselectively by 6-*endo* cationic cyclisations, effected by addition of an I(I) reagent to alkenylarenes, followed by reductive deiodination.

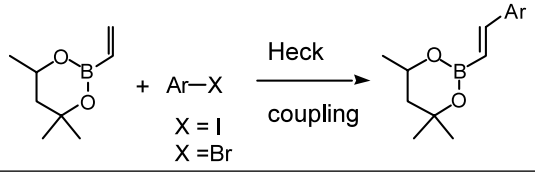


Tetrahedron Letters 44 (2003) 7645

4,4,6-Trimethyl-2-vinyl-1,3,2-dioxaborinane: a superior 2-carbon building block for vinylboronate Heck couplings

Andrew P. Lightfoot,[a] Graham Maw,[b] Carl Thirsk,[c] Steven J. R. Twiddle[c] and Andrew Whiting[c,*]

[a]*GlaxoSmithKline Pharmaceuticals, New Frontiers Science Park, Third Avenue, Harlow, Essex CM19 5AW, UK*
[b]*Pfizer Global Research & Development, Sandwich, Kent CT13 9NJ, UK*
[c]*Department of Chemistry, University of Durham, Science Laboratories, South Road, Durham DH1 3LE, UK*



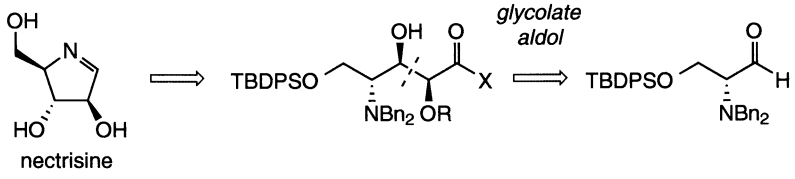
Tetrahedron Letters 44 (2003) 7649

Stereoselective synthesis of the α-glucosidase inhibitor nectrisine

Alison N. Hulme* and Charles H. Montgomery

School of Chemistry, The University of Edinburgh, West Mains Road, Edinburgh EH9 3JJ, UK

The α-glucosidase inhibitor nectrisine was synthesised in 12 steps (31% overall yield) starting from D-serine. The three contiguous stereocentres of this iminosugar were introduced via a highly diastereoselective boron mediated glycolate aldol reaction.

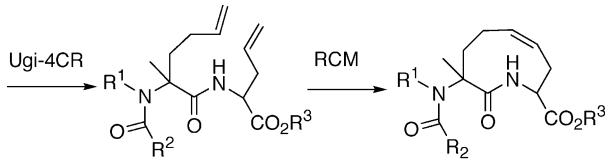


Tetrahedron Letters 44 (2003) 7655

Application of tandem Ugi reaction/ring-closing metathesis in multicomponent synthesis of unsaturated nine-membered lactams

Luca Banfi,* Andrea Basso, Giuseppe Guanti and Renata Riva

Dipartimento di Chimica e Chimica Industriale, via Dodecaneso 31, I-16146 Genova, Italy



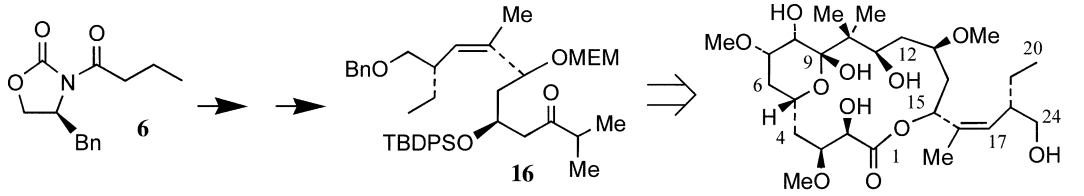
Tetrahedron Letters 44 (2003) 7659

Synthetic studies of microtubule stabilizing agent peloruside A: an asymmetric synthesis of C_{10}–C_{24} segment

Arun K. Ghosh* and Jae-Hun Kim

Department of Chemistry, University of Illinois at Chicago, 845 West Taylor Street, Chicago, IL 60607, USA

An asymmetric synthesis of the C_{10}–C_{24} segment of peloruside A is described.

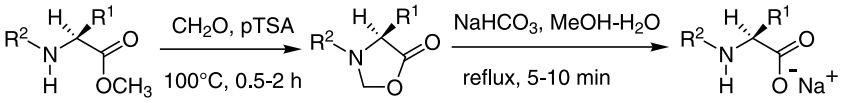


Tetrahedron Letters 44 (2003) 7663

Mild regeneration of the carboxylic group of amino acid alkyl esters by aqueous methanolic sodium hydrogen carbonate via 5-oxazolidinones

Pietro Allevi[a,*] and Mario Anastasia[b]

[a]*Dipartimento di Medicina, Chirurgia e Odontoiatria, Università di Milano, via A. Di Rudinì 8, I-20142 Milano, Italy*
[b]*Dipartimento di Chimica, Biochimica e Biotecnologie per la Medicina, Università di Milano, via Saldini 50, I-20133 Milano, Italy*

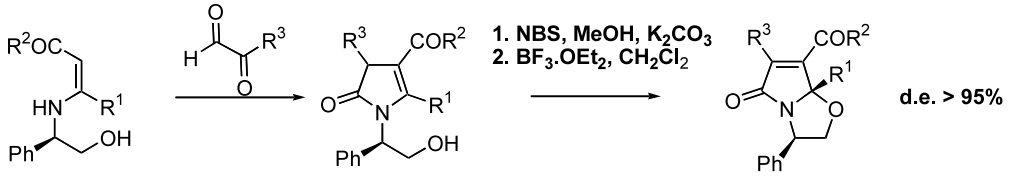


Tetrahedron Letters 44 (2003) 7667

Synthesis of new enantiomerically pure α,β-unsaturated bicyclic lactams

Claude Agami, Alice Beauseigneur, Sébastien Comesse and Luc Dechoux*

Laboratoire de Synthèse Asymétrique (UMR 7611), Université P. et M. Curie, 4 place Jussieu, 75005 Paris, France

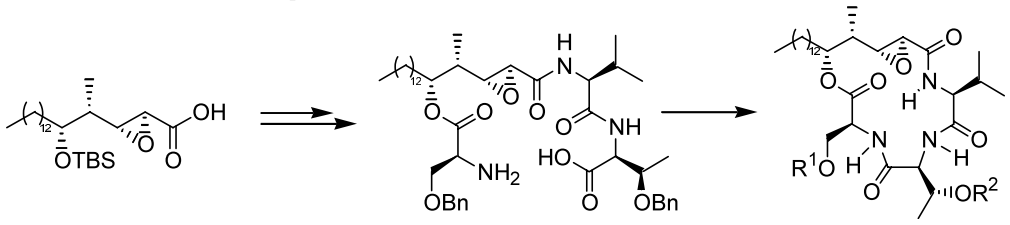


Towards the synthesis of [15]-membered stevastelins through the 2,3-epoxy analogues

Tetrahedron Letters 44 (2003) 7671

Francisco Sarabia,* Samy Chammaa, Antonio Sánchez Ruiz and F. Jorge López-Herrera

Departamento de Bioquímica, Biología Molecular y Química Orgánica, Facultad de Ciencias, Universidad de Málaga, 29071 Málaga, Spain

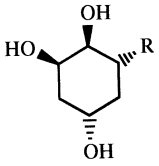


Product-like inhibitors of inositol monophosphatase

Tetrahedron Letters 44 (2003) 7677

M. Bashir-Uddin Surfraz, David J. Miller, David Gani and Rudolf K. Allemann*

Department of Chemical Sciences, The University of Birmingham, Edgbaston, Birmingham B15 2TT, UK



A series of product-like inhibitors of inositol monophosphatase have been prepared and tested for activity in vitro as possible leads for treatment of bipolar disorders. Compounds possessing a 6-alkyloxy side chain were inhibitors but less efficacious than those possessing a 6-aminoalkyl side chain. These new structures show promise as inhibitors possessing the bioavailability and characteristics necessary for drug development.

A study of solvent effects on the stereoselectivity of Diels–Alder reactions through molecular surface electrostatic potentials

Tetrahedron Letters 44 (2003) 7681

M. R. Gholami,* B. A. Talebi and M. Khalili

Department of Chemistry, Sharif University of Technology, Tehran, Iran

Electrostatic potentials on the surface of solvent molecules were used to describe the solvent effects on the stereoselectivity of Diels–Alder reactions.

$$V(r) = \sum \frac{Z_A}{|R_A - r|} - \int \frac{\rho(r')}{|r' - r|} dr'$$

Iridium-catalyzed alternative of the Meinwald rearrangement

Tetrahedron Letters 44 (2003) 7687

Iyad Karamé, M. Lorraine Tommasino and Marc Lemaire*

Laboratoire de Catalyse et Synthèse Organique, UCBL, UMR 5622, CPE, 43, bd du 11 novembre 1918, 69622, Villeurbanne cedex, France

Novel, regiospecific and easy to handle procedure for the rearrangement of epoxides based on an iridium catalyst.