

Tetrahedron Letters Vol. 50, No. 15, 2009

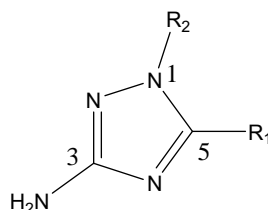
Contents

Communications

Rapid, microwave-assisted synthesis of N1-substituted 3-amino-1,2,4-triazoles

pp 1667–1670

Jerry Meng, Pei-Pei Kung *

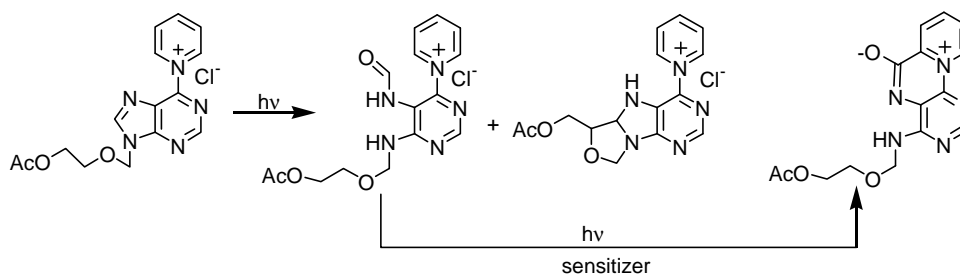


A robust, regioselective synthesis of 3-amino-1,2,4-triazoles is described.

Synthesis of an acyclic nucleoside analog of highly fluorescent luminarosine

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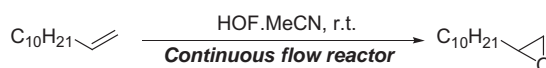
Joanna Nowak, Bohdan Skalski, Zofia Gdaniec, Jan Milecki *



Epoxidation of alkenes using HOF.MeCN by a continuous flow process

pp 1674–1676

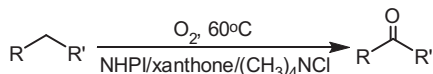
Christopher B. McPake, Christopher B. Murray *, Graham Sandford *



A free radical process for oxidation of hydrocarbons promoted by nonmetal xanthone and tetramethylammonium chloride under mild conditions

pp 1677–1680

Zhongtian Du, Zhiqiang Sun, Wei Zhang, Hong Miao, Hong Ma, Jie Xu *



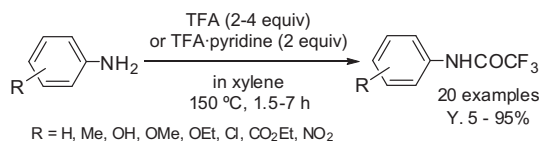
A nonmetal catalytic system consisting of *N*-hydroxyphthalimide, xanthone, and tetramethylammonium chloride was developed. A wide range of hydrocarbons could be oxygenated efficiently with molecular oxygen under mild conditions.



A one-pot procedure for trifluoroacetylation of arylamines using trifluoroacetic acid as a trifluoroacetylating reagent

pp 1681–1683

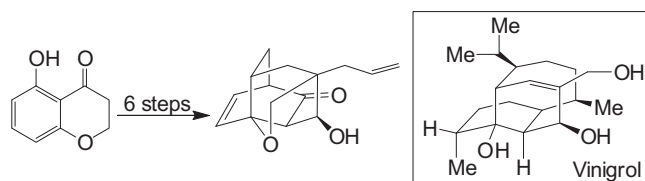
Junpei Ohtaka, Takeshi Sakamoto, Yasuo Kikugawa *



An Adler–Becker oxidation approach to vinigrol

pp 1684–1686

Jason G. M. Morton, Laura D. Kwon, John D. Freeman, Jon T. Njardarson *



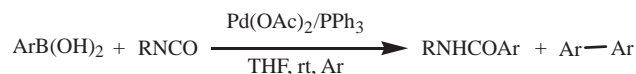
Detailed in this Letter is an Adler–Becker oxidation strategy towards vinigrol. The effects of substitution were shown to greatly impact successes of both the oxidative dearomatization and Diels–Alder reactions.



Palladium-catalyzed addition of arylboronic acids to isocyanates

pp 1687–1688

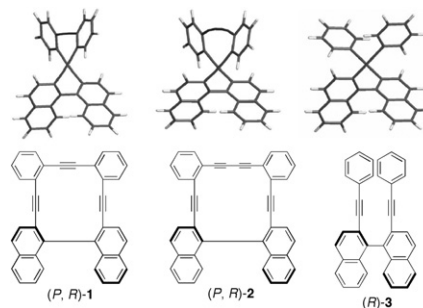
Ebrahim Kianmehr *, Azam Rajabi, Mohammad Ghanbari



Vibrational CD spectroscopy as a powerful tool for stereochemical study of cyclophynes in solution

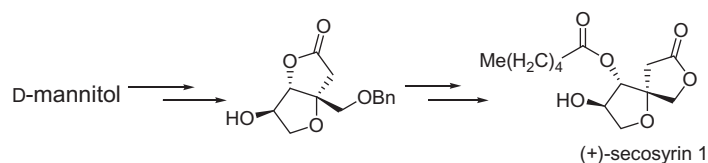
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De Lie An*, Qiang Chen, Jingkun Fang, Hong Yan, Akihiro Orita, Nobuaki Miura, Atsufumi Nakahashi, Kenji Monde*, Junzo Otera*

**Stereoselective synthesis of (+)-secosyrin 1**

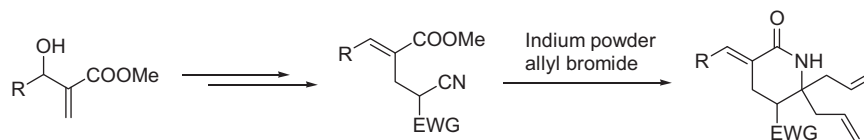
pp 1693–1695

D. Gautam, B. Venkateswara Rao*

**Indium-mediated double Barbier reaction of γ -cyanoesters derived from Baylis–Hillman adduct**

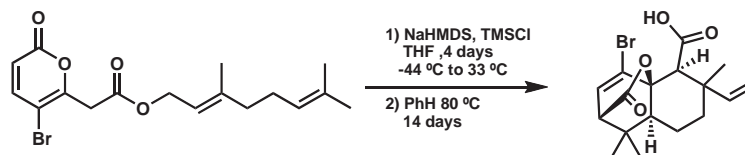
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Sung Hwan Kim, Hyun Seung Lee, Ko Hoon Kim, Jae Nyoung Kim*

**Progress toward the synthesis of the transtaganolide/basilolide natural products: an Ireland–Claisen approach**

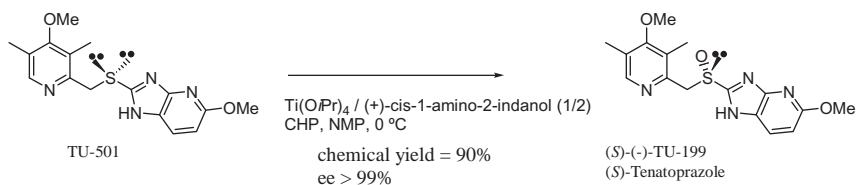
pp 1699–1701

Hosea M. Nelson, Brian M. Stoltz*



A new titanate/(+)-(1*R*,2*S*)-cis-1-amino-2-indanol system for the asymmetric synthesis of (*S*)-tenatoprazole

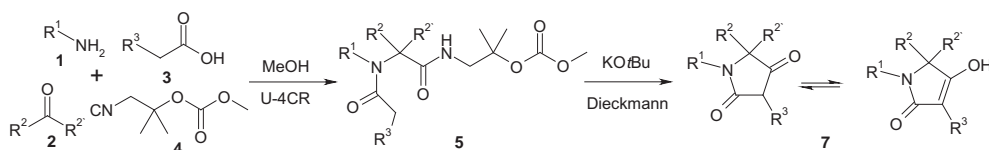
pp 1702–1704

Madeleine Delamare ^{*}, Sébastien Belot, Jean-Claude Caille, Frédéric Martinet, Henri B. Kagan, Vivien Henryon

Asymmetric oxidation of TU-501 has been achieved using cumene hydroperoxide (CHP) in the presence of titanium tetraisopropoxide (Ti(OiPr)_4) and (+)-(1*R*,2*S*)-cis-1-amino-2-indanol, in a polar aprotic solvent at 0–20 °C, to chemoselectively give (*S*)-TU-199 with an enantiomeric excess of >99%, a chemoselectivity of >90% and a chemical yield of >90%.

Tetramic acid derivatives via Ugi–Dieckmann-reaction

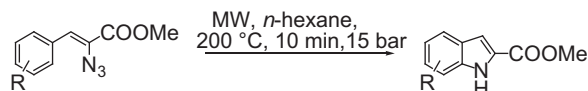
pp 1705–1707

Julia H. Spatz ^{*}, Sebastian J. Welsch, David-Emmanuel Duhaut, Nadine Jäger, Thomas Boursier, Martin Fredrich, Lars Allmendinger, Günther Ross, Jürgen Kolb, Christoph Burdack, Michael Umkehrer

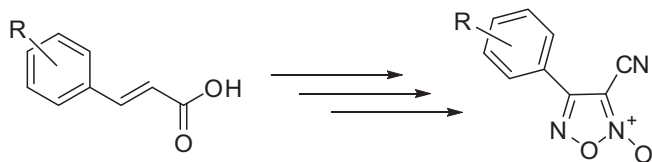
Tetramic acid derivatives constitute an important class of nitrogen containing heterocycles, and are key structural motifs in many natural products of terrestrial and marine origin. The interesting biological and structural diversity of this class of substances makes it a particularly interesting template for the design of compound libraries in search of small molecules that effect cellular signalling pathways. Therefore, a novel combinatorial synthesis of tetramic acids by an Ugi/Dieckmann condensation is described.

Rapid and easy access to indoles via microwave-assisted Hemetsberger–Knittel synthesis

pp 1708–1709

Frank Lehmann, Melanie Holm, Stefan Laufer ^{*}**Synthesis of oxadiazole-2-oxide analogues as potential antischistosomal agents**

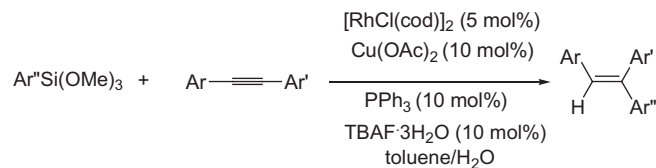
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Ganesha Rai, Craig J. Thomas, William Leister, David J. Maloney ^{*}

Rhodium–copper–TBAF-catalyzed hydroarylation of alkynes with aryl Trimethoxysilanes

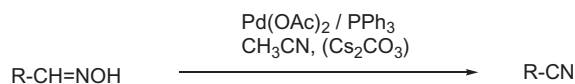
pp 1714–1716

Baoda Lin, Miaochang Liu, Zhishi Ye, Qin Zhang, Jiang Cheng *

**Highly efficient Pd-catalyzed synthesis of nitriles from aldoximes**

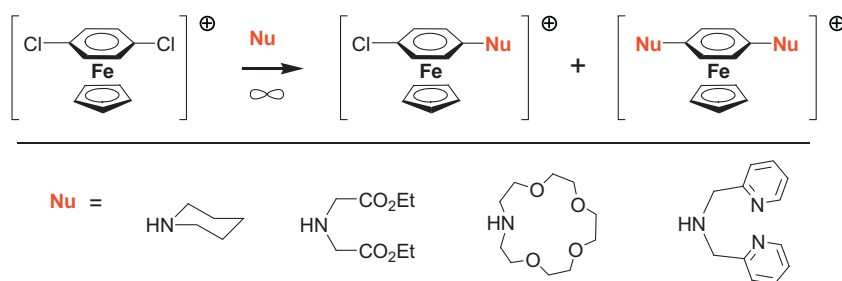
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Hoo Sook Kim, Sung Hwan Kim, Jae Nyoung Kim *

**Ultrasound-promoted aromatic nucleophilic substitution of dichlorobenzene iron(II) complexes**

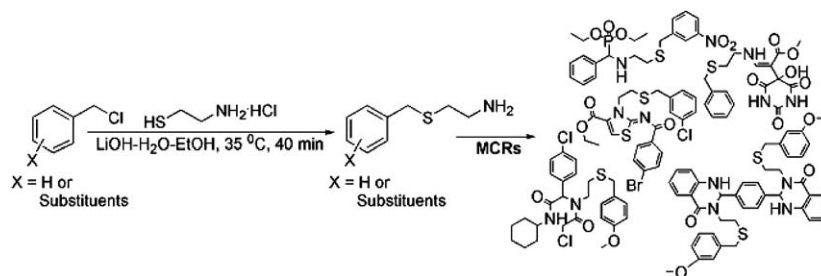
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Noureddine Raouafi, Nadra Belhadj, Khaled Boujlel, Ali Ourari, Christian Amatore, Emmanuel Maisonhaute, Bernd Schöllhorn *

**A new strategy for the synthesis of β -benzylmercaptoethylamine derivatives**

pp 1723–1726

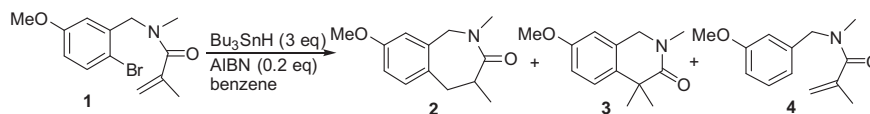
Subrata Ghosh, Gregory P. Tochtrop *



Mechanistic study of 7-endo selective radical cyclization of the aryl radical

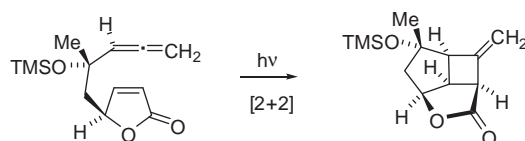
pp 1727–1730

Akio Kamimura *, Yuriko Ishihara, Masahiro So, Takahiro Hayashi

**Stereocontrolled entry to the tricyclo[3.3.0]oxoheptane core of bielschowskysin by a [2+2] cycloaddition of an allene-butenolide**

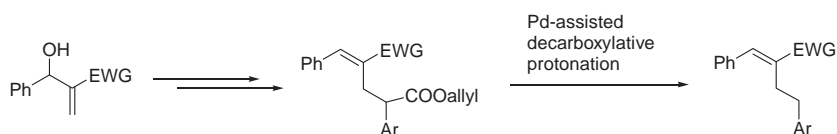
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Ru Miao, Subramanian G. Gramani, Martin J. Lear *

**An expedient arylation of Baylis–Hillman adduct via the Pd-catalyzed decarboxylative protonation strategy**

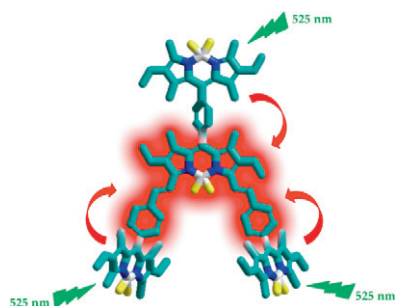
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Jeong Mi Kim, Se Hee Kim, Hyun Seung Lee, Jae Nyoung Kim *

**Boradiazaindacene (Bodipy)-based building blocks for the construction of energy transfer cassettes**

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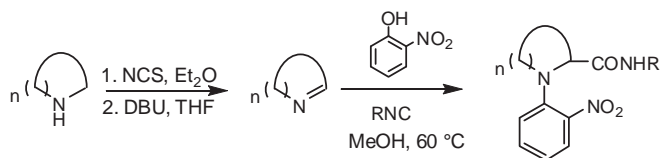
Gokhan Barin, M. Deniz Yilmaz, Engin U. Akkaya *



Three-component Ugi–Smiles couplings of cyclic imines

pp 1741–1743

Laurent El Kaïm *, Laurence Grimaud *, Julie Oble, Simon Wagschal

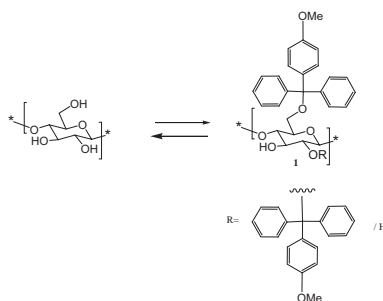


N-Aryl piperidines and pyrrolidines are formed by way of Ugi–Smiles couplings of cyclic imines.

A new protection group strategy for cellulose in an ionic liquid: simultaneous protection of two sites to yield 2,6-di-O-substituted mono-*p*-methoxytrityl cellulose

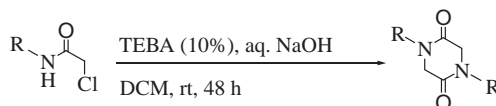
pp 1744–1747

Mari Granström *, Anna Olszewska, Valtteri Mäkelä, Sami Heikkinen, Ilkka Kilpeläinen *

**One-step diketopiperazine synthesis using phase transfer catalysis**

pp 1748–1750

Elaine O'Reilly, Elena Lestini, Daniele Balducci, Francesca Paradisi *

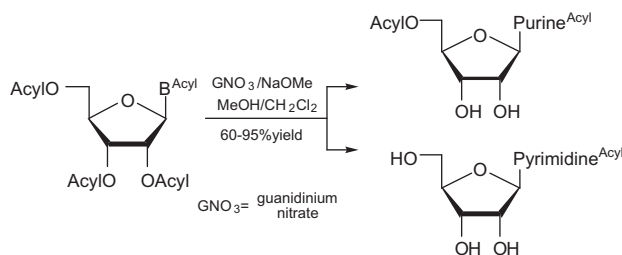


A simple and efficient one-step procedure is described for the synthesis of a number of symmetrical 1,4-disubstituted piperazine-2,5-diones under phase transfer conditions.

Selective deacylation of peracylated ribonucleosides

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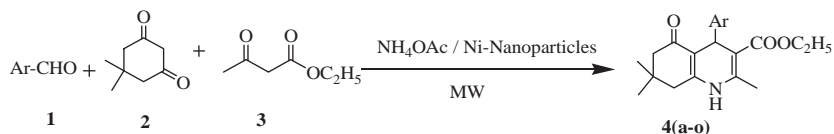
Jared W. Rigoli, Michael E. Østergaard, Kirsten M. Canady, Dale C. Guenther, Patrick J. Hrdlicka *



Nickel nanoparticle-catalyzed facile and efficient one-pot synthesis of polyhydroquinoline derivatives via Hantzsch condensation under solvent-free conditions

pp 1754–1756

Suryakant B. Sapkal, Kiran F. Shelke, Bapurao B. Shingate, Murlidhar S. Shingare *



Polyhydroquinoline derivatives have been prepared efficiently in a one-pot synthesis via Hantzsch condensation using nanosized Nickel (Ni) as a heterogeneous catalyst. The present method does not involve any hazardous organic solvents or catalysts. The smaller size of Ni (80 ± 0.5 nm) having a higher surface to volume ratio has promising features for the reaction response such as the shortest reaction time, excellent product yields, simple work-up procedure, and purification of products by non-chromatographic methods.

*Corresponding author

* Supplementary data available via ScienceDirect

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