

Synthesis

Protodepalladation as a Strategic Elementary Step in Catalysis

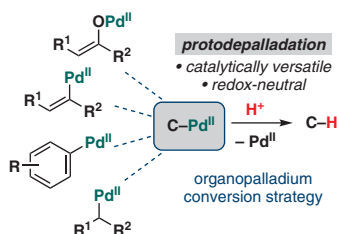
Review

4699

Synthesis 2018, 50, 4699–4714
DOI: 10.1055/s-0037-1611064

M. L. O'Duill
K. M. Engle*

The Scripps Research Institute,
USA



Synthesis

Advances in Catalytic Aerobic Oxidations by Activation of Dioxygen- Monooxygenase Enzymes and Biomimetics

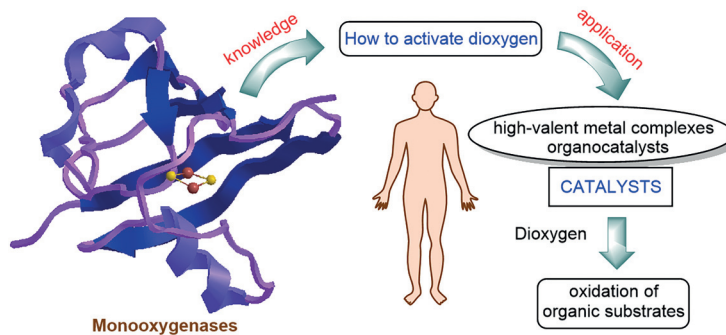
Review

4715

Synthesis 2018, 50, 4715–4745
DOI: 10.1055/s-0037-1610297

M. Petsi
A. L. Zografos*

Aristotle University of
Thessaloniki, Greece



Synthesis

Stereoselective Synthesis of Tetrahydrofuran Lignans

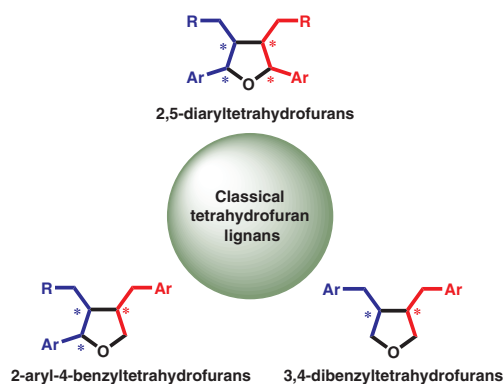
Short Review

4746

Synthesis 2018, 50, 4746–4764
DOI: 10.1055/s-0037-1610289

D. Soorukram*
M. Pohmakotr
C. Kuhakarn
V. Reutrakul

Mahidol University, Thailand



Synthesis

Direct Trifluoromethylthiolation Reactions Involving Radical Processes

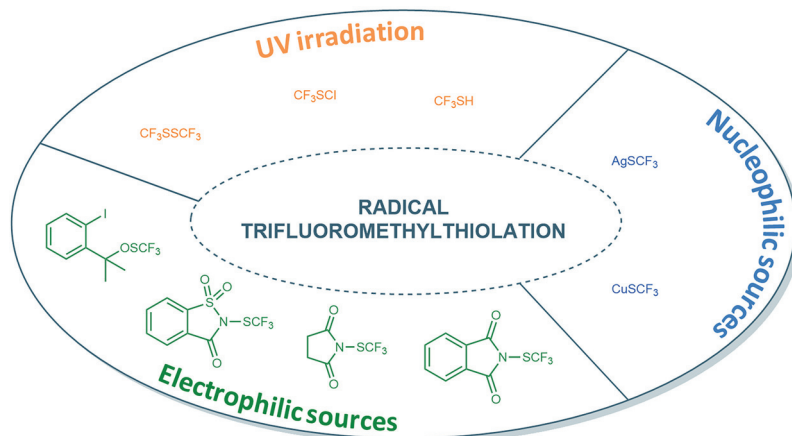
Short Review

4765

Synthesis 2018, 50, 4765–4776
DOI: 10.1055/s-0037-1611278

A.-L. Barthelemy
E. Magnier
G. Dagousset*

Université de Versailles-Saint-
Quentin, France



Synthesis

Macrocyclic Hosts in Asymmetric Phase-Transfer Catalyzed Reactions

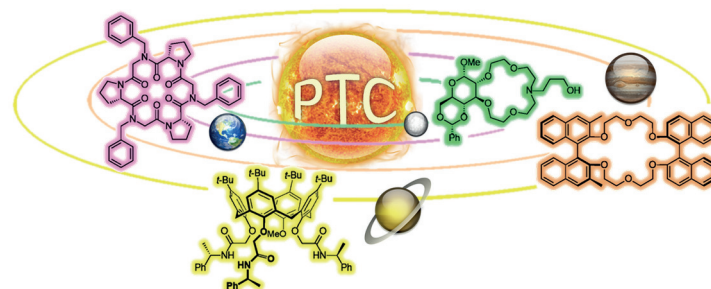
Short Review

4777

Synthesis 2018, 50, 4777–4795
DOI: 10.1055/s-0037-1610311

R. Schettini
M. Sicignano
F. De Riccardis
I. Izzo
G. Della Sala*

Università degli Studi di Salerno,
Italy



Synthesis

Synthesis **2018**, *50*, 4796–4808
DOI: 10.1055/s-0037-161114

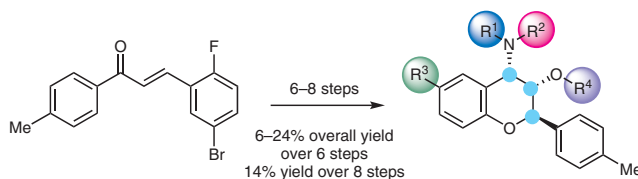
Q. Gao
L. L. Xu
V. P. Parise
Y. R. Mehta
L. N. Aldrich*

University of Illinois at Chicago,
USA

Enantioselective Synthesis of 4-Amino-3-hydroxybenzopyran Flavanol Derivatives from Chalcones

Feature

4796



Facile incorporation of stereochemical and appendage diversity for biological evaluation

Synthesis

Synthesis **2018**, *50*, 4809–4822
DOI: 10.1055/s-0037-1610840

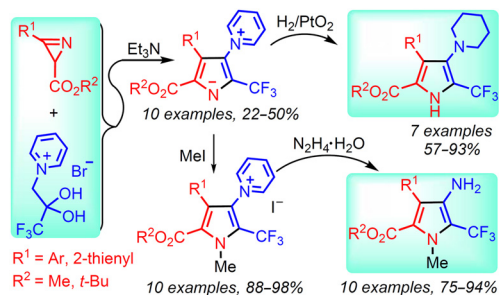
L. D. Funt
O. A. Tomashenko
M. S. Novikov
A. F. Khlebnikov*

Saint Petersburg State University,
Russian Federation

An Azirine Strategy for the Synthesis of Alkyl 4-Amino-5-(trifluoromethyl)-1*H*-pyrrole-2-carboxylates

Feature

4809



Synthesis

Synthesis **2018**, *50*, 4823–4828
DOI: 10.1055/s-0036-1592002

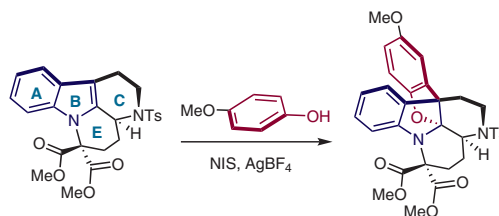
N. Denizot
R. Guillot
C. Kouklovsky
G. Vincent*

Université Paris-Sud, Université
Paris-Saclay, CNRS, UMR 8182,
France

N-Iodosuccinimide-Mediated Oxidative Coupling of Indoles and Phenol: A Synthetic Study toward the Benzofuroindoline Moiety of Bipleiophylline

Paper

4823



Synthesis

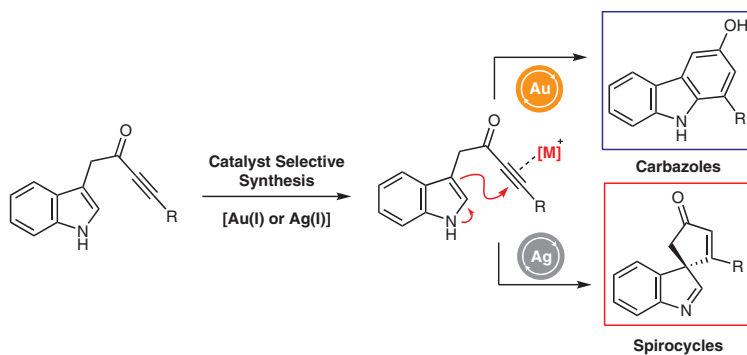
Synthesis 2018, 50, 4829–4836
DOI: 10.1055/s-0037-1610181

J. T. Liddon
J. A. Rossi-Ashton
A. K. Clarke
J. M. Lynam*
R. J. Taylor*
W. P. Unsworth*
University of York, UK

Divergent Reactivity of Indole-Tethered Ynones with Silver(I) and Gold(I) Catalysts: A Combined Synthetic and Computational Study

Paper

4829



Synthesis

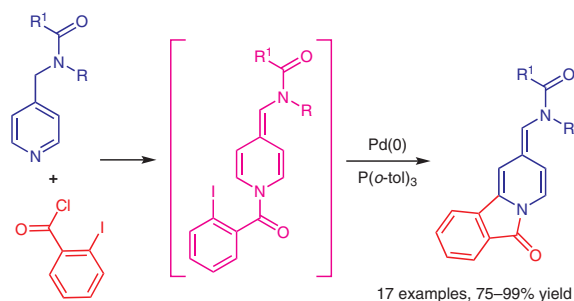
Synthesis 2018, 50, 4837–4845
DOI: 10.1055/s-0037-1610133

M. S. Joshi
F. C. Pigge*
University of Iowa, USA

Sequential Pyridine Dearomatization–Mizoroki–Heck Cyclization for the Construction of Fused (Dihydropyrido)isoindolinone Ring Systems

Paper

4837



Synthesis

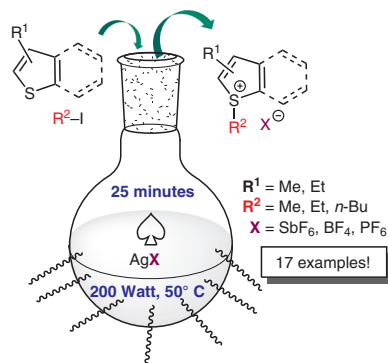
Synthesis 2018, 50, 4846–4854
DOI: 10.1055/s-0037-1609934

M. A. Schiel
C. E. Domini*
A. B. Chopa
G. F. Silbestri*
Universidad Nacional del Sur
(UNS)-CONICET, Argentina

Microwave-Assisted Syntheses of Thiophene-Based Ionic Liquids: Structural Design and Optimization

Paper

4846



Synthesis

Synthesis **2018**, *50*, 4855–4866
DOI: 10.1055/s-0037-1610254

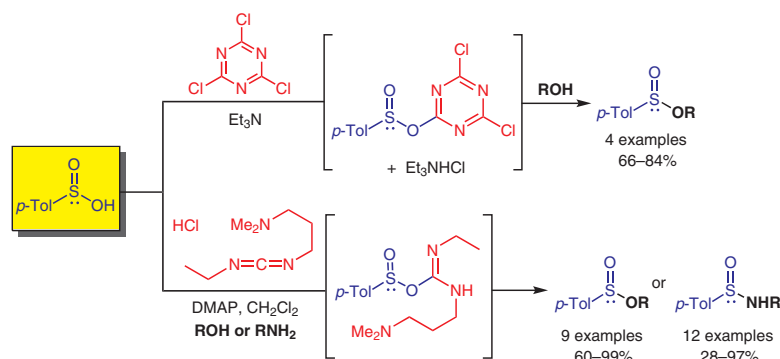
S. H. Gafur
S. L. Waggoner
E. Jacobsen
C. G. Hamaker
S. R. Hitchcock*

Illinois State University, USA

Efficient Synthesis of Sulfinate Esters and Sulfinamides via Activated Esters of *p*-Toluenesulfonic Acid

Paper

4855



Synthesis

Synthesis **2018**, *50*, 4867–4874
DOI: 10.1055/s-0037-1610243

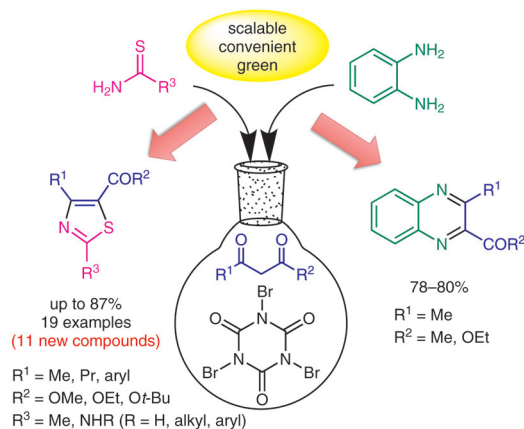
V. S. C. de Andrade
M. C. S. de Mattos*

Universidade Federal do Rio de Janeiro, Brazil

One-Pot Telescoped Synthesis of Thiazole Derivatives from β -Keto Esters and Thioureas Promoted by Tribromoisocyanuric Acid

Paper

4867



Synthesis

Synthesis **2018**, *50*, 4875–4882
DOI: 10.1055/s-0037-1610240

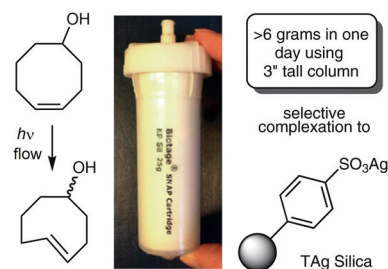
A. Darko*
S. J. Boyd
J. M. Fox*

University of Delaware, USA

Large-Scale Flow Photochemical Synthesis of Functionalized *trans*-Cyclooctenes Using Sulfonated Silica Gel

Paper

4875



Synthesis

Synthesis **2018**, *50*, 4883–4888
DOI: 10.1055/s-0037-1610238

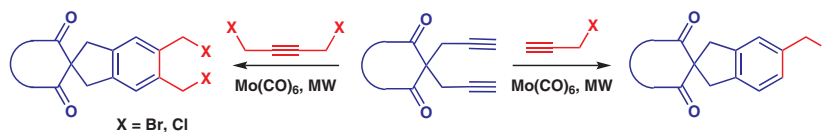
S. Kotha*
G. Sreevani

Indian Institute of Technology-
Bombay, Powai, India

Synthesis of Spiro Barbiturates and Meldrum's Acid Derivatives via a [2+2+2] Cyclotrimerization

Paper

4883



Synthesis

Synthesis **2018**, *50*, 4889–4896
DOI: 10.1055/s-0037-1610244

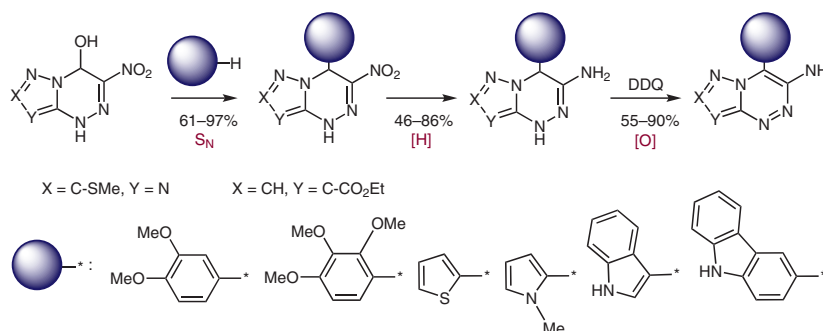
E. B. Gorbunov*
E. N. Ulomsky
E. K. Voikov
R. A. Drokin
D. N. Lyapustin
G. L. Rusinov
V. L. Rusinov
V. N. Charushin
O. N. Chupakhin

Postovsky Institute of Organic
Synthesis, Russian Federation
Ural Federal University named
after the First President of Russia
B. N. Yeltsin, Russian Federation

First Example of C–H Functionalisation in the 6-Nitroazolo[5,1-c]triazine Series

Paper

4889



Synthesis

Synthesis **2018**, *50*, 4897–4904
DOI: 10.1055/s-0037-1610647

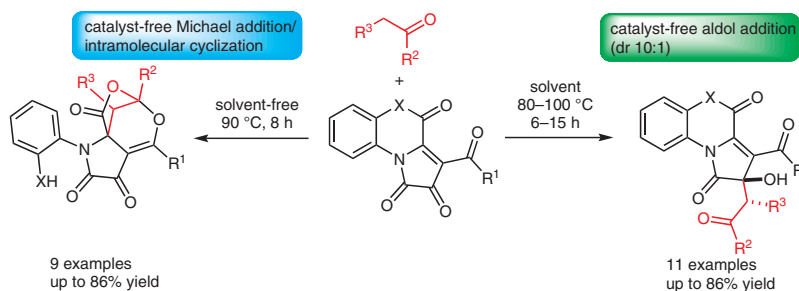
E. E. Stepanova*
S. O. Kasatkina
M. V. Dmitriev
A. N. Maslivets*

Pern State University, Russian
Federation

Diversity-Oriented Synthesis via Catalyst-Free Addition of Ketones to [e]-Fused 1*H*-Pyrrole-2,3-diones

Paper

4897



Synthesis

Synthesis **2018**, *50*, 4905–4914
DOI: 10.1055/s-0037-1609916

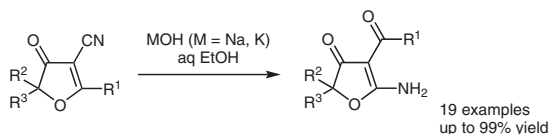
O. G. Volostnykh
O. A. Shemyakina*
A. V. Stepanov
I. A. Ushakov
T. N. Borodina

A. E. Favorsky Irkutsk Institute of
Chemistry, Russian Federation

Synthesis of Functionalized 5-Amino-3(2*H*)-furanones via Base-Catalyzed Ring-Cleavage/Recyclization of 4-Cyano-3(2*H*)-furanones in the Presence of Water

Paper

4905



R¹ = Alk, Ar, HetAr; R² = Me; R³ = Me, Et; R²-R³ = (CH₂)₅

Synthesis

Synthesis **2018**, *50*, 4915–4921
DOI: 10.1055/s-0037-1609753

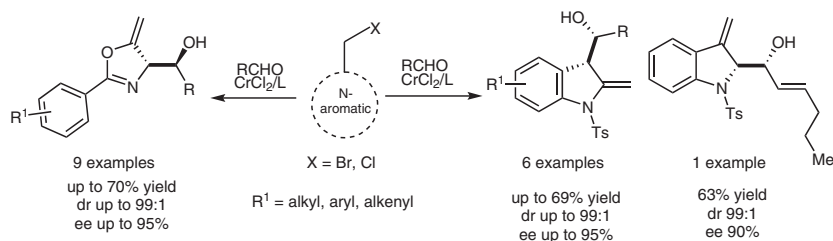
Z. Wang
H. Ji
W.-M. He*
Y. Xiong
G. Zhang*

Hunan University of Science and
Engineering, P. R. of China
Shanghai Institute of Organic
Chemistry, P. R. of China

Chromium-Catalyzed Asymmetric Dearomatization–Addition Reactions of Halomethyloxazoles and Indoles

Paper

4915



R¹ = alkyl, aryl, alkenyl

Synthesis

Synthesis **2018**, *50*, 4922–4932
DOI: 10.1055/s-0037-1609947

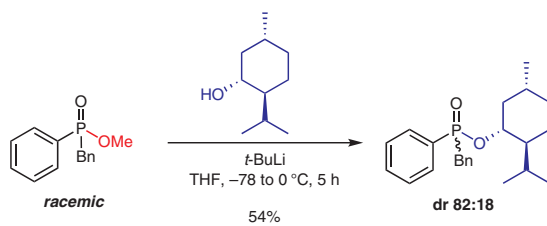
D. Strzelecka
O. Bąk
P. Borowski*
M. Stankevič*

Marie Curie-Skłodowska Univer-
sity in Lublin, Poland

Dynamic Kinetic Resolution of Phosphinic Acid Derivatives via Nucleophilic Substitution at Phosphorus Center

Paper

4922



DKR-like process based on different reactivity of each enantiomer

Synthesis

Synthesis 2018, 50, 4933–4939
DOI: 10.1055/s-0037-1610651

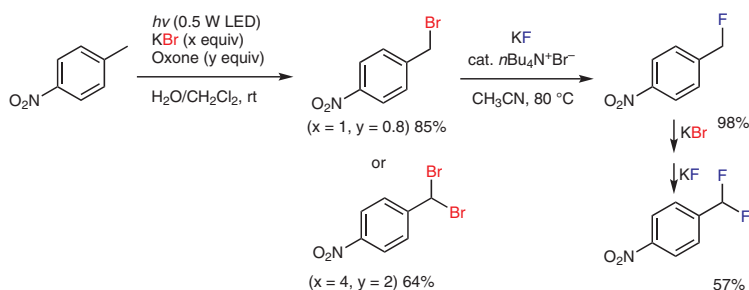
M. Zhao
M. Li
W. Lu*

Shanghai Jiao Tong University,
P. R. of China

Visible-Light-Driven Oxidative Mono- and Dibromination of Benzylic sp^3 C–H Bonds with Potassium Bromide/Oxone at Room Temperature

Paper

4933



Synthesis

Synthesis 2018, 50, 4940–4948
DOI: 10.1055/s-0037-1610650

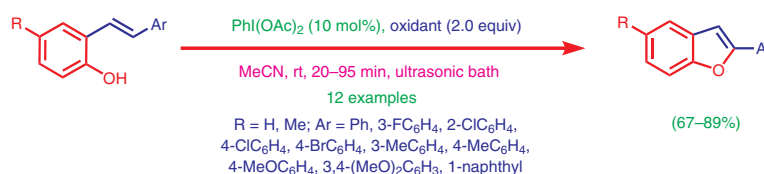
F. V. Singh*
S. R. Mangaonkar

VIT Institute, India

Hypervalent Iodine(III)-Catalyzed Synthesis of 2-Arylbenzofurans

Paper

4940



Synthesis

Synthesis 2018, 50, 4949–4957
DOI: 10.1055/s-0037-1610237

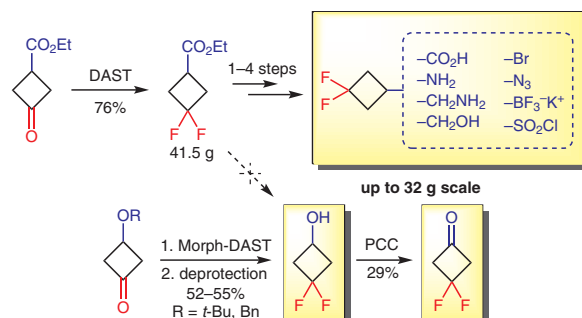
K. P. Melnykov
D. S. Granat
D. M. Volochnyuk
S. V. Ryabukhin*
O. O. Grygorenko

Enamine Ltd., Ukraine
Taras Shevchenko National Uni-
versity of Kyiv, Ukraine

Multigram Synthesis of C_4/C_5 3,3-Difluorocyclobutyl-Substituted Building Blocks

Paper

4949



Synthesis

Synthesis 2018, 50, 4958–4962
DOI: 10.1055/s-0037-1609915

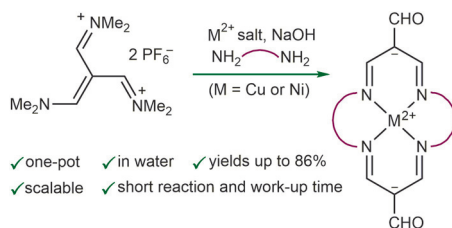
M. Woźny*

Institute of Chemistry, Polish
Academy of Sciences, Poland

One-Pot Synthesis of Tetraazamacrocyclic Complexes from the Arnold Salt

Paper

4958



Synthesis

Synthesis 2018, 50, 4963–4981
DOI: 10.1055/s-0037-1610223

S. E. Pearson*

S. M. Fillery

K. Goldberg

J. E. Demeritt

J. Eden

J. Finlayson

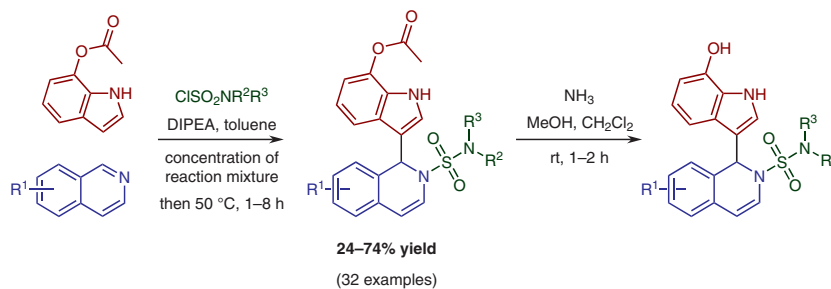
A. Patel

AstraZeneca, UK

Synthesis of Indole-Dihydroisoquinoline Sulfonyl Ureas via Three-Component Reactions

Paper

4963



Synthesis

Synthesis 2018, 50, 4982–4988
DOI: 10.1055/s-0037-1610239

D. A. Shabalín

E. E. Ivanova

A. V. Kuzmin

M. Yu. Dvorko

E. Yu. Schmidt

B. A. Trofimov*

A. E. Favorsky Irkutsk Institute of
Chemistry, Russian Federation

Synthesis of 1-Carboxamide-1,4-dihydropyridazines via Recyclization of Hydroxypyrrolines with Semicarbazides

Paper

4982

