

## Synthesis

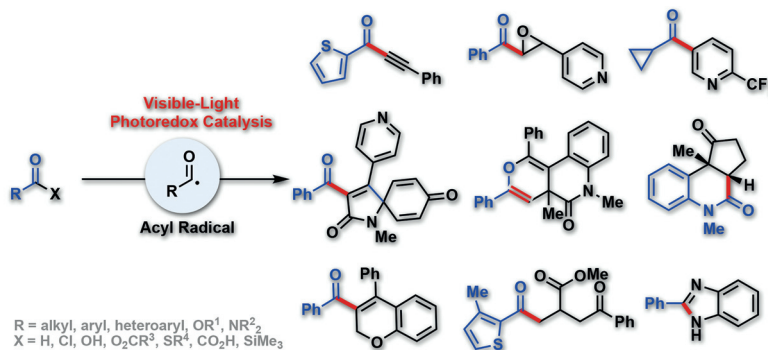
## Acyl Radical Chemistry via Visible-Light Photoredox Catalysis

## Review

*Synthesis* 2019, 51, 303–333  
DOI: 10.1055/s-0037-1610329

A. Banerjee  
Z. Lei  
M.-Y. Ngai\*  
Stony Brook University, USA

303



## Synthesis

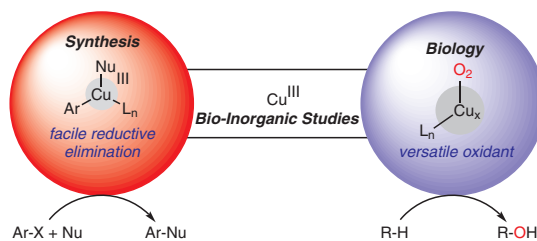
## Cu(III)-Mediated Aerobic Oxidations

## Review

*Synthesis* 2019, 51, 334–358  
DOI: 10.1055/s-0037-1609635

K. V. N. Esguerra  
J.-P. Lumb\*  
McGill University, Canada

334



## Synthesis

Synthesis 2019, 51, 359–370  
DOI: 10.1055/s-0037-1609639

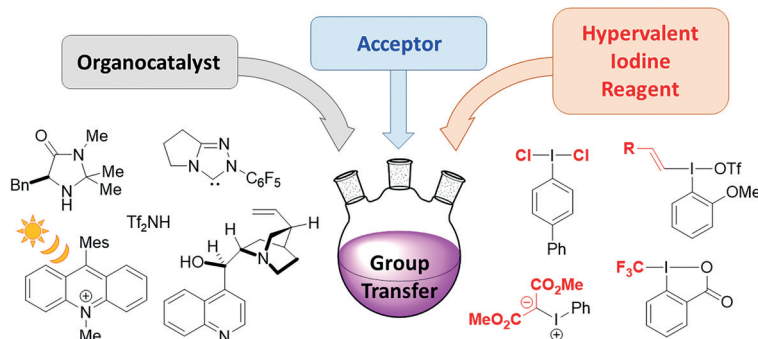
M. K. Ghosh  
A. A. Rajkiewicz  
M. Kalek\*

University of Warsaw, Poland

## Organocatalytic Group Transfer Reactions with Hypervalent Iodine Reagents

## Short Review

359



## Synthesis

Synthesis 2019, 51, 371–383  
DOI: 10.1055/s-0037-1609638

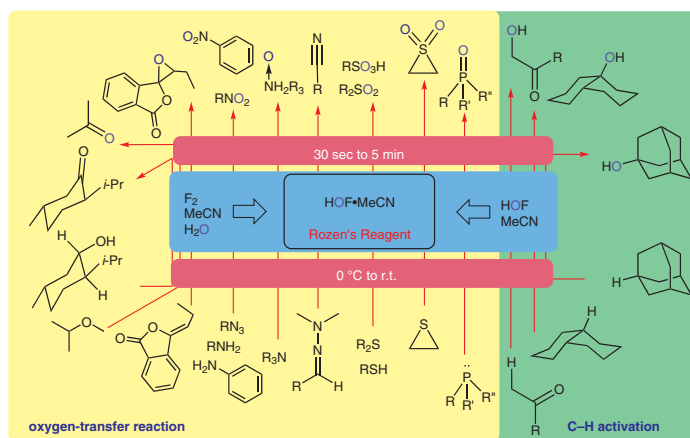
K. Singh\*  
Kulbir  
T. Gupta  
R. Kaur  
R. Singh

Maharishi Markandeshwar  
(Deemed to be University), India

## Applications of Rozen's Reagent in Oxygen-Transfer and C–H Activation Reactions

## Short Review

371



## Synthesis

Synthesis 2019, 51, 384–398  
DOI: 10.1055/s-0037-1611279

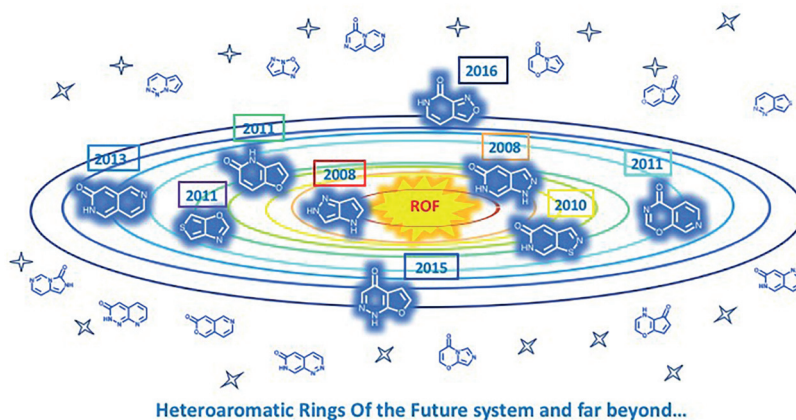
K. Passador  
S. Thorimbert\*  
C. Botuha\*

Sorbonne Université, France

## 'Heteroaromatic Rings of the Future': Exploration of Unconquered Chemical Space

## Short Review

384



## Synthesis

Synthesis 2019, 51, 399–406  
DOI: 10.1055/s-0037-1610849

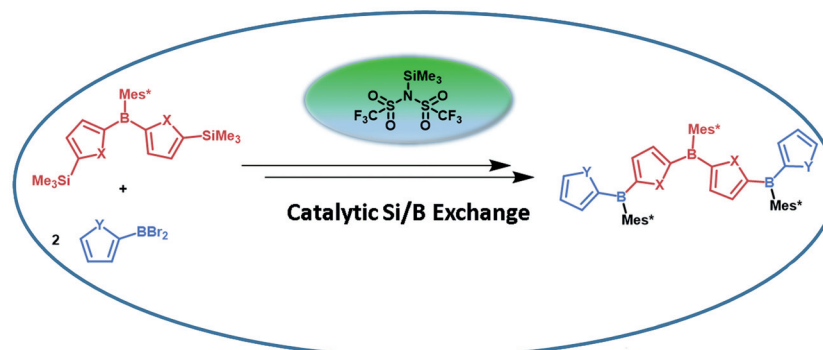
L. Fritze  
N. A. Riensch  
H. Helten\*

RWTH Aachen University,  
Germany

## Catalytic Si/B Exchange Condensation: A Green B–C Coupling Method That Provides Access to Monodisperse (Het)arylborane ‘Trimers’

Feature

399



## Synthesis

Synthesis 2019, 51, 407–413  
DOI: 10.1055/s-0037-1610844

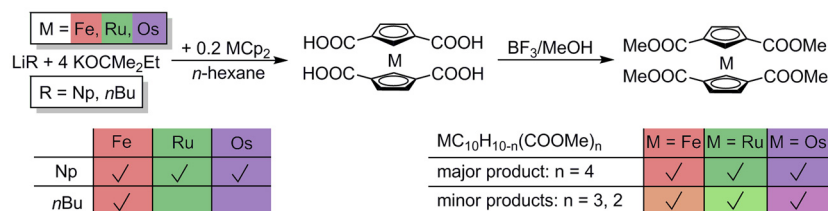
J. Hein  
J. Klett\*

Johannes Gutenberg-Universität  
Mainz, Germany

## The Preparation of Tetramethyl 1,1',3,3'-Ruthenocenetetracarboxylate and Tetramethyl 1,1',3,3'-Osmocenetetracarboxylate, and a Simplified Synthesis for Tetramethyl 1,1',3,3'-Ferrocenetetracarboxylate

Feature

407



## Synthesis

Synthesis 2019, 51, 414–420  
DOI: 10.1055/s-0037-1610278

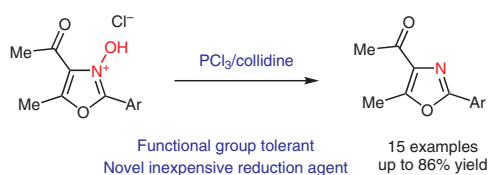
V. Z. Shirinian\*  
I. A. Lonshakov  
A. V. Zakharov  
A. G. Lvov  
M. M. Krayushkin

N. D. Zelinsky Institute of Organic  
Chemistry, Russian Federation

Practical Deoxygenation of Oxazole N-Oxides by PCl<sub>3</sub>/Collidine

PSP

414



## Synthesis

A General Protocol for the Synthesis of *H*- $\alpha$ -Hydroxyphosphinates

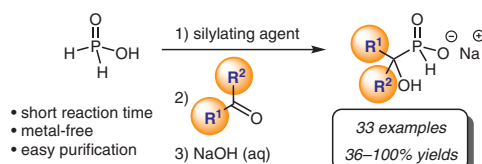
Paper

421

*Synthesis* 2019, 51, 421–432  
DOI: 10.1055/s-0037-1610274

J. Dussart  
J. Deschamp\*  
M. Monteil  
O. Gager  
E. Migianu-Griffoni  
M. Lecouvey\*

Université Paris 13, Sorbonne  
Paris Cité, France



## Synthesis

Total Synthesis and Cytotoxic Activity of 6,8-Dimethoxy-1,3-dimethylisoquinoline Isolated from *Ancistrocladus tectorius*: A 6 $\pi$ -Azoelectrocyclization Approach

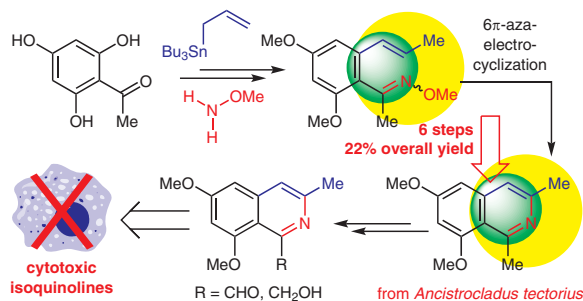
Paper

433

*Synthesis* 2019, 51, 433–440  
DOI: 10.1055/s-0037-1610276

I. Cortés  
C. M. Borini Etichetti  
J. E. Girardini  
T. S. Kaufman\*  
A. B. J. Bracca\*

Universidad Nacional de Rosario,  
Argentina



## Synthesis

Novel and Convenient Synthesis of 2,7-Dialkyl-1,8-dihydro-*as*-indacenes

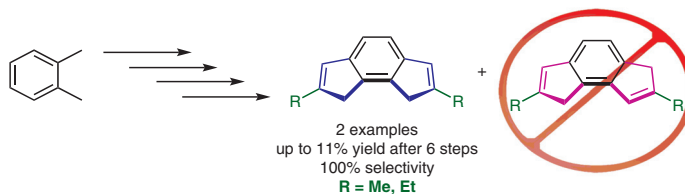
Paper

441

*Synthesis* 2019, 51, 441–449  
DOI: 10.1055/s-0037-1610631

R. Faúndez  
F. Castillo  
M. Preite  
E. Schott  
X. Zarate  
J. M. Manriquez  
E. Molins  
C. Morales-Verdejo\*  
I. Chávez\*

Pontificia Universidad Católica  
de Chile, Chile  
Universidad Mayor, Chile



## Synthesis

Synthesis 2019, 51, 450–462  
DOI: 10.1055/s-0037-1610285

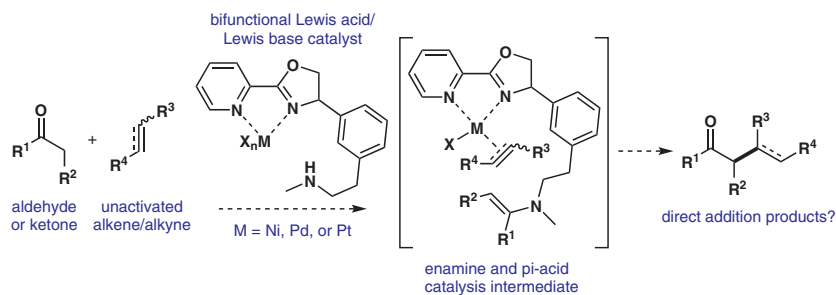
E. Greve  
J. D. Porter  
C. Dockendorff\*

Marquette University, USA

## DFT-Assisted Design and Evaluation of Bifunctional Amine/Pyridine-Oxazoline Metal Catalysts for Additions of Ketones to Unactivated Alkenes and Alkynes

Paper

450



## Synthesis

Synthesis 2019, 51, 463–469  
DOI: 10.1055/s-0037-1610824

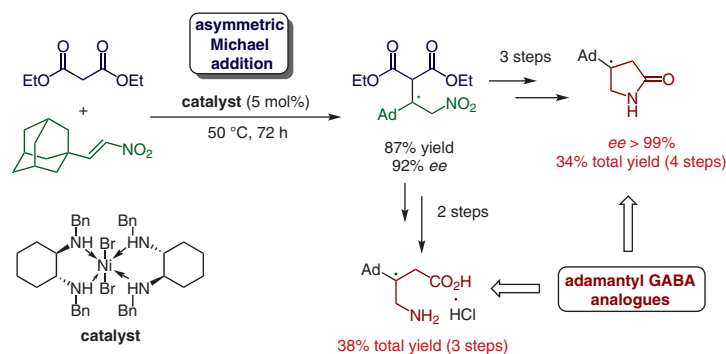
A. E. Sibiryakova\*  
V. A. Shiryayev\*  
A. N. Reznikov  
A. A. Kabanova  
Y. N. Klimochkin

Samara State Technical University, Russian Federation

## Asymmetric Synthesis of Adamantyl GABA Analogues

Paper

463



## Synthesis

Synthesis 2019, 51, 470–476  
DOI: 10.1055/s-0037-1610277

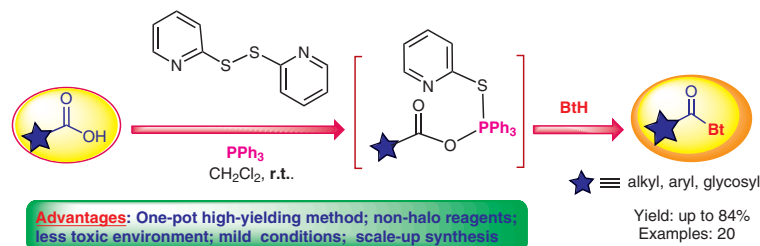
A. S. Singh  
A. K. Agrahari  
N. Mishra  
M. Singh  
V. K. Tiwari\*

Banaras Hindu University, India

## An Improved N-Acylation of 1H-Benzotriazole Using 2,2'-Dipyridyl-disulfide and Triphenylphosphine

Paper

470



## Synthesis

## Synthetic Versatility of Lipases: Application for Si–O Bond Formation and Cleavage

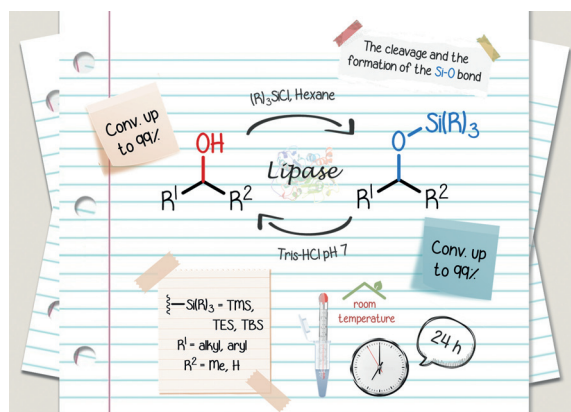
Paper

477

Synthesis 2019, 51, 477–485  
DOI: 10.1055/s-0037-1610281

P. B. Brondani\*  
M. Mittersteiner  
M. A. Voigt  
B. H. Klinkowski  
D. Riva Scharf  
P. C. de Jesus

Universidade Federal de Santa  
Catarina, Brazil



## Synthesis

## Additions of Carbohydrate-Derived Alkoxyallenes to Imines and Subsequent Reactions to Enantiopure 2,5-Dihydropyrrole Derivatives

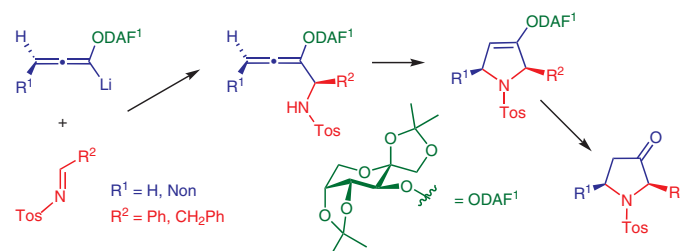
Paper

486

Synthesis 2019, 51, 486–499  
DOI: 10.1055/s-0037-1609942

A. Hausherr  
R. Zimmer  
H.-U. Reissig\*

Freie Universität Berlin, Germany



## Synthesis

## Synthesis of Isoquinoline-Fused Quinazolinones through Ag(I)-Catalyzed Cascade Annulation of 2-Aminobenzamides and 2-Alkynylbenzaldehydes

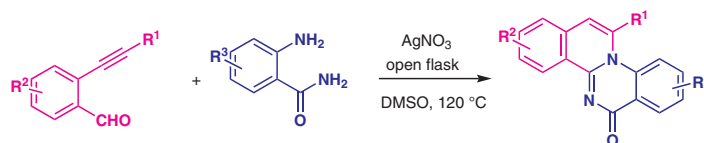
Paper

500

Synthesis 2019, 51, 500–507  
DOI: 10.1055/s-0037-1610910

A. D. Sonawane  
Y. B. Shaikh  
D. R. Garud  
M. Koketsu\*

Gifu University, Japan



R<sup>1</sup> = Bu, aryl

- 14 examples; up to 91% yield
- Good functional group tolerance
- In situ oxidation
- Regioselectivity

Synthesis

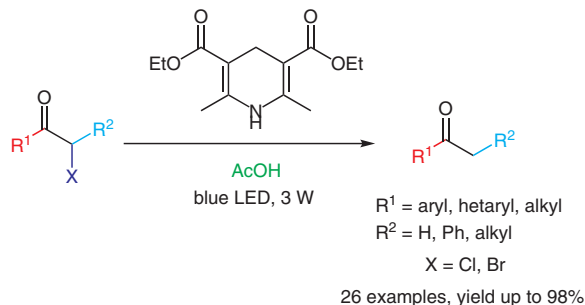
Catalyst-Free Photodriven Reduction of  $\alpha$ -Haloketones with Hantzsch Ester

Paper

508

Synthesis 2019, 51, 508–515  
DOI: 10.1055/s-0037-1610629

Z. Lu  
Y.-Q. Yang\*  
Jiangsu University, P. R. of China



Synthesis

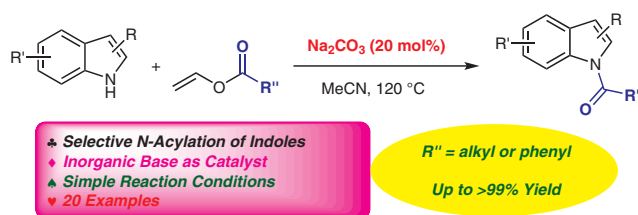
$\text{Na}_2\text{CO}_3$ -Catalyzed *N*-Acylation of Indoles with Alkenyl Carboxylates

Paper

516

Synthesis 2019, 51, 516–521  
DOI: 10.1055/s-0037-1609937

X.-Y. Zhou\*  
X. Chen\*  
Liupanshui Normal University,  
China



Synthesis

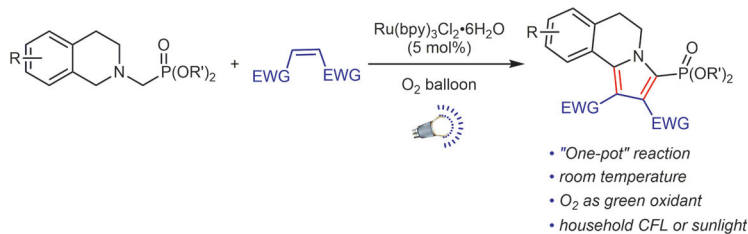
Visible-Light Photoredox-Catalyzed Cascade Reaction for the Synthesis of Pyrrolo[2,1-*a*]isoquinoline-Substituted Phosphonates

Paper

522

Synthesis 2019, 51, 522–529  
DOI: 10.1055/s-0037-1610907

L. Wang  
T. Ma  
M. Qiao  
Q. Wu  
D. Shi\*  
W. Xiao  
Central China Normal University,  
P. R. of China



## Synthesis

*Synthesis* **2019**, *51*, 530–537  
DOI: 10.1055/s-0037-1610270

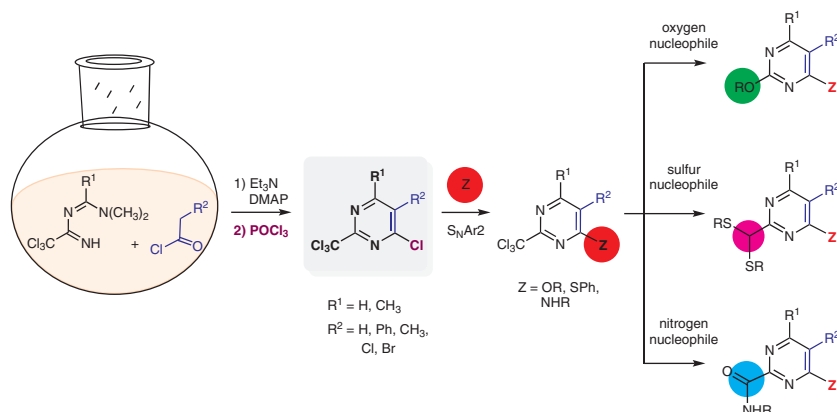
M. L. Trujillo-Lagunas  
I. Medina-Mercado  
I. Zaragoza-Galicia  
H. F. Olivo

M. Romero-Ortega\*  
Universidad Autónoma del Estado  
de México, México

A Synthesis of 4-Chloro-2-(trichloromethyl)pyrimidines and Their  
Study in Nucleophilic Substitution

Paper

530



## Synthesis

*Synthesis* **2019**, *51*, 538–544  
DOI: 10.1055/s-0037-1610251

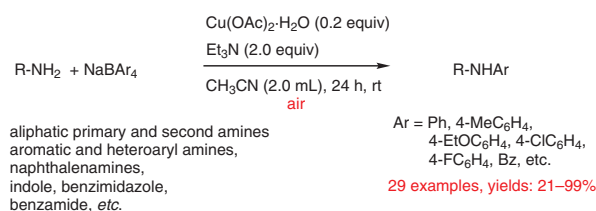
Q. Yang  
X. Lei  
Z. Yin  
Z. Deng  
Y. Peng\*

Jiangxi Normal University,  
P. R. of China

Copper-Catalyzed NaBAR<sub>4</sub>-Based N-Arylation of Amines

Paper

538



## Synthesis

*Synthesis* **2019**, *51*, 545–551  
DOI: 10.1055/s-0037-1610295

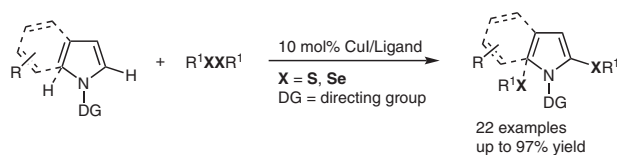
W. Xu  
Y.-Y. Hei  
J.-L. Song  
X.-C. Zhan  
X.-G. Zhang  
C.-L. Deng\*

Wenzhou University,  
P. R. of China

Copper(I)-Catalyzed Thiolation of C–H Bonds for the Synthesis of  
Sulfenyl Pyrroles and Indoles

Paper

545





## Synthesis

## Total Synthesis of the Natural Pyridocoumarins Goniotaline A and B

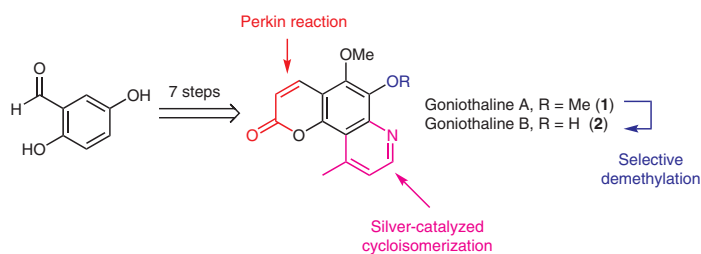
Paper

552

*Synthesis* **2019**, *51*, 552–556  
DOI: 10.1055/s-0037-1610909

S. Ahn  
J. A Yoon  
Y. T. Han\*

Dankook University,  
Republic of Korea



## Synthesis

## Synthesis and Optical Resolution of 3,3,3',3'-Tetramethyl-1,1'-spirobiindane-7,7'-diol

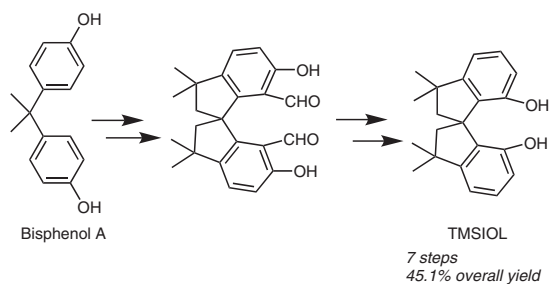
Paper

557

*Synthesis* **2019**, *51*, 557–563  
DOI: 10.1055/s-0037-1610831

Q. Zhou  
R. Pan  
H. Shan  
X. Lin\*

Zhejiang University,  
P. R. of China



## Synthesis

## Synthesis of Aryl-Substituted 3,3a,4,5-Tetrahydropyrrolo[1,2-a]quinolin-1(2H)-ones and 2,3,4,4a,5,6-Hexahydro-1H-pyrido[1,2-a]quinolin-1-ones

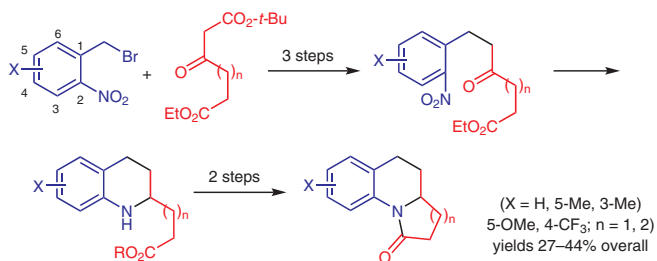
Paper

564

*Synthesis* **2019**, *51*, 564–572  
DOI: 10.1055/s-0037-1609940

F. M. Watts  
R. A. Bunce\*

Oklahoma State University, USA



## Synthesis

Synthesis and Antitumor Activity of Novel 1-Substituted 3-(4,5-Substituted 1,2,4-Triazol-3-yl)- $\beta$ -carboline Derivatives

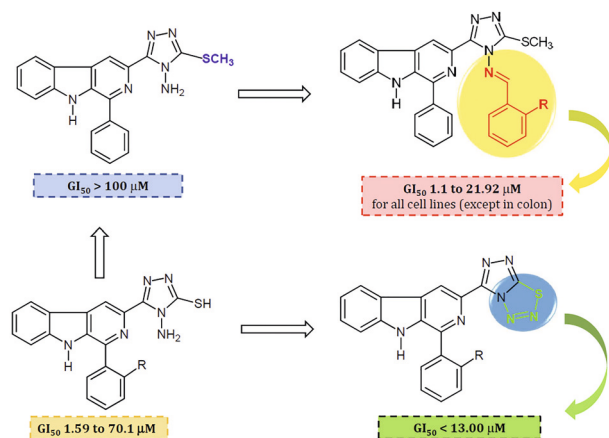
Paper

573

*Synthesis* 2019, 51, 573–577  
DOI: 10.1055/s-0037-1610291

G. Brand  
C. M. B. Gomes  
W. F. Costa  
M. A. Foglio  
A. L. T. G. Ruiz  
M. H. Sarragiotto\*

Universidade Estadual de Maringá, Brazil



## Synthesis

Synthesis of 2-(Arylselanyl)benzo[*b*]chalcogenophenes via Intramolecular Cyclization of Vinyl Selenides

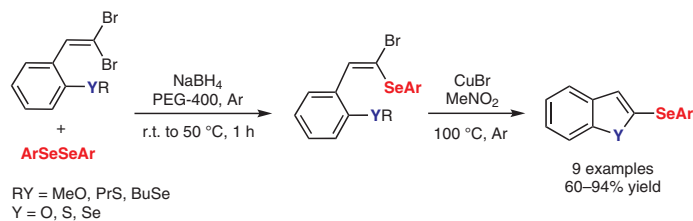
Paper

578

*Synthesis* 2019, 51, 578–586  
DOI: 10.1055/s-0037-1610656

G. Stach  
T. J. Peglow  
J. A. Roehrs  
F. Penteadó  
T. Barcellos  
R. G. Jacob  
E. J. Lenardão\*  
G. Perin\*

Universidade Federal de Pelotas  
– UFPel, Brazil



## Synthesis

## Instructions for Authors

XVII