

## Synthesis

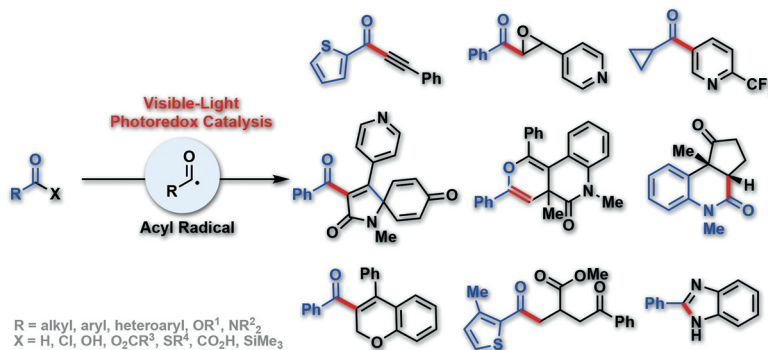
## Acyl Radical Chemistry via Visible-Light Photoredox Catalysis

## 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

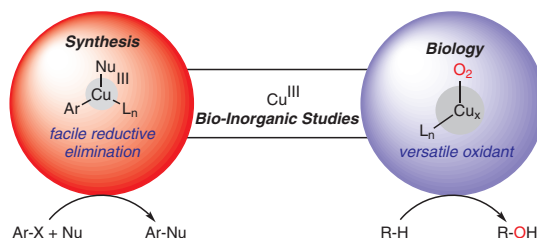
## Cu(III)-Mediated Aerobic Oxidations

## 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

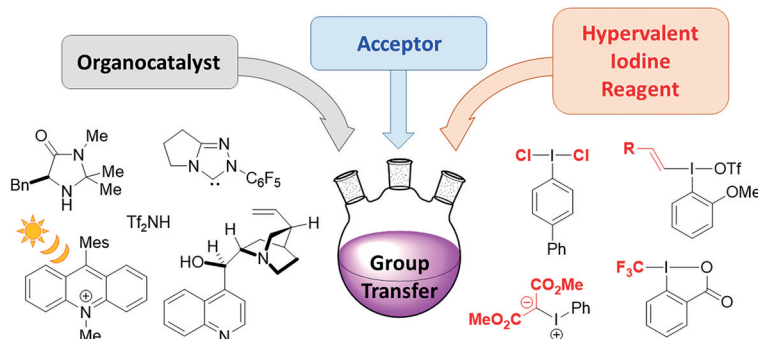
M. K. Ghosh  
A. A. Rajkiewicz  
M. Kalek\*

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

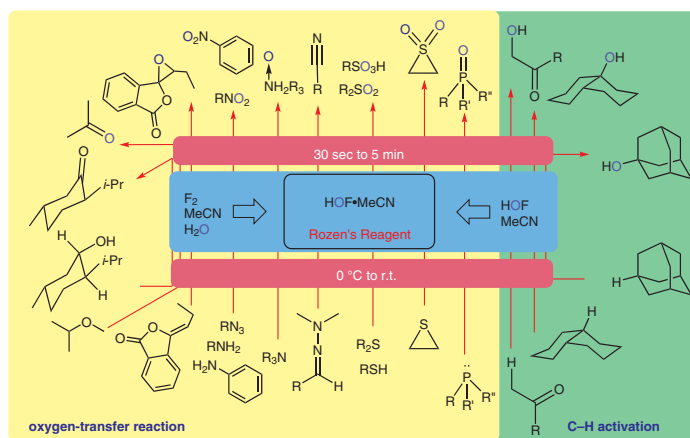
K. Singh\*  
Kulbir  
T. Gupta  
R. Kaur  
R. Singh

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

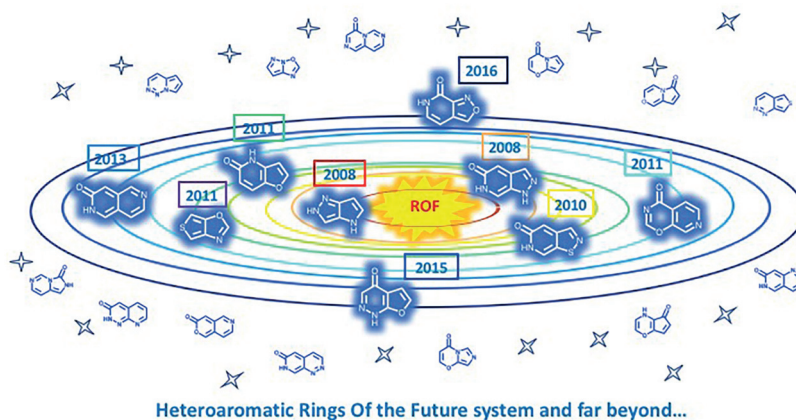
K. Passador  
S. Thorimbert\*  
C. Botuha\*

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

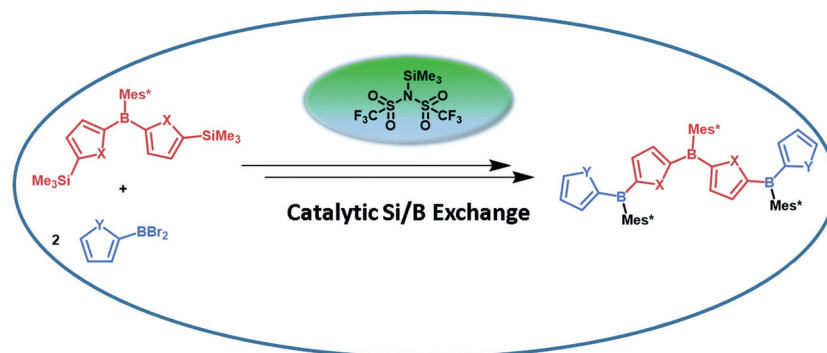
L. Fritze  
N. A. Riensch  
H. Helten\*

RWTH Aachen University,  
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## 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

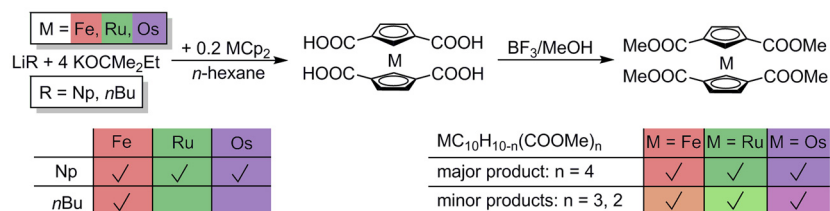
J. Hein  
J. Klett\*

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

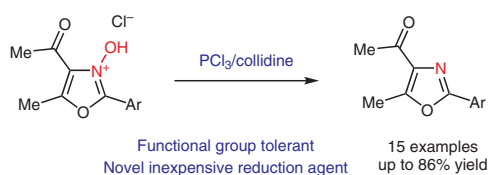
V. Z. Shirinian\*  
I. A. Lonshakov  
A. V. Zakharov  
A. G. Lvov  
M. M. Krayushkin

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

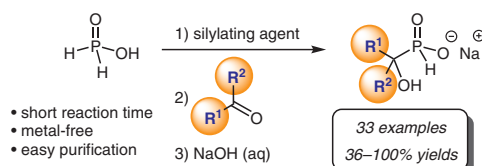
Paper

421

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

J. Dussart  
J. Deschamp\*  
M. Monteil  
O. Gager  
E. Migianu-Griffoni  
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Université Paris 13, Sorbonne  
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## Synthesis

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

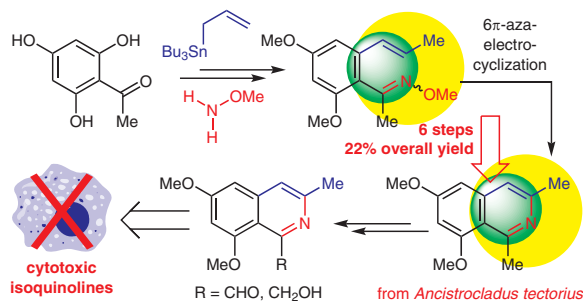
Paper

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

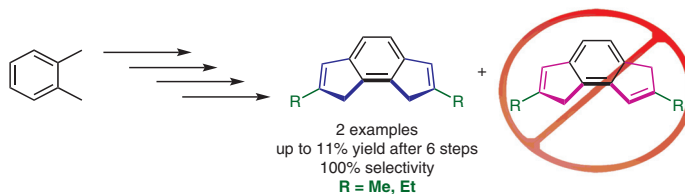
Paper

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  
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I. Chávez\*

Pontificia Universidad Católica  
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Universidad Mayor, Chile



## Synthesis

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

E. Greve

J. D. Porter

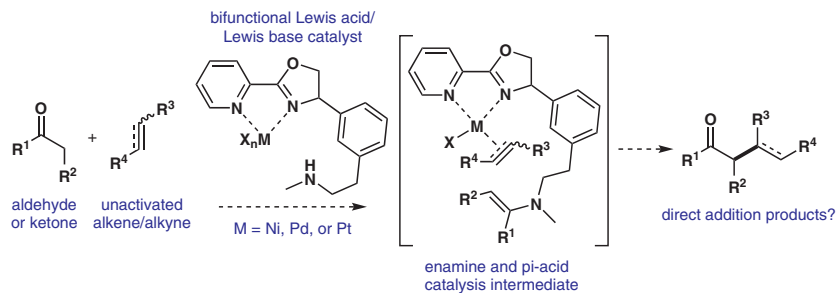
C. Dockendorff\*

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

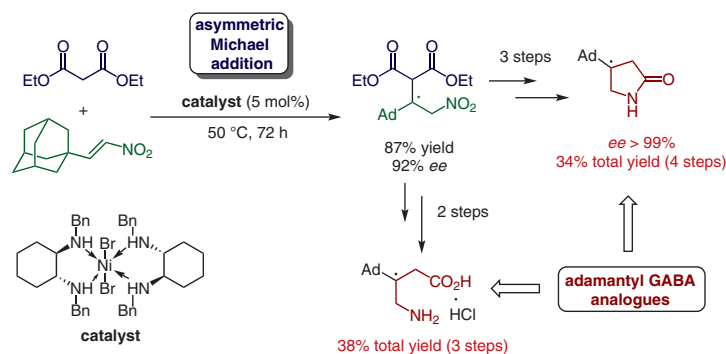
Y. N. Klimochkin

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

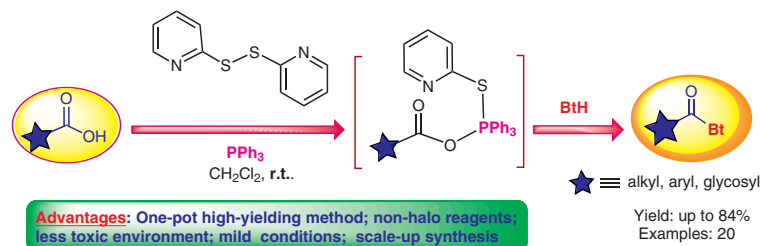
V. K. Tiwari\*

Banaras Hindu University, India

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

Paper

470





Synthesis

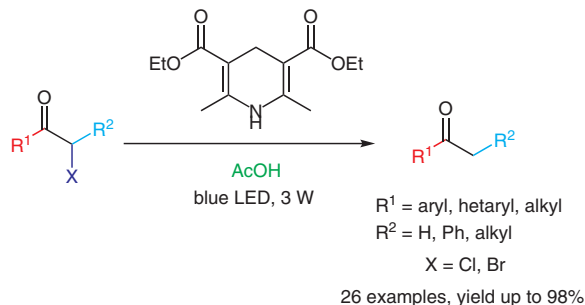
Catalyst-Free Photodriven Reduction of  $\alpha$ -Haloketones with Hantzsch Ester

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

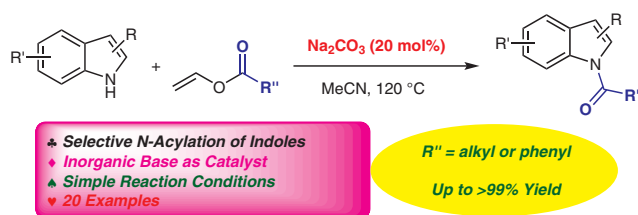
$\text{Na}_2\text{CO}_3$ -Catalyzed *N*-Acylation of Indoles with Alkenyl Carboxylates

Paper

516

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

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



Synthesis

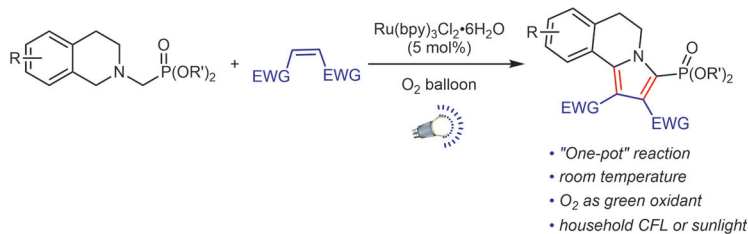
Visible-Light Photoredox-Catalyzed Cascade Reaction for the Synthesis of Pyrrolo[2,1-*a*]isoquinoline-Substituted Phosphonates

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

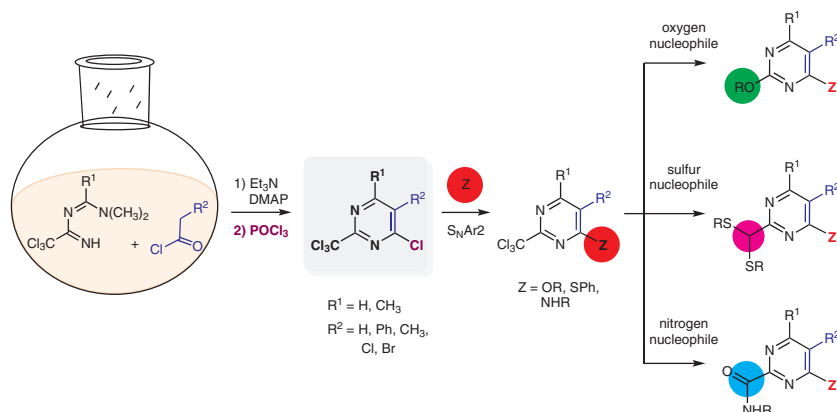
M. L. Trujillo-Lagunas  
I. Medina-Mercado  
I. Zaragoza-Galicia  
H. F. Olivo

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

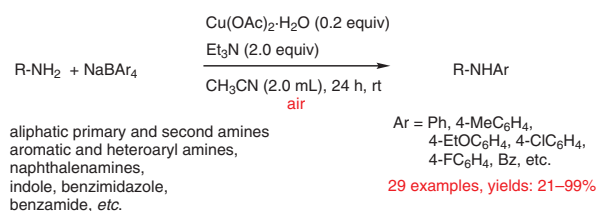
Q. Yang  
X. Lei  
Z. Yin  
Z. Deng  
Y. Peng\*

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

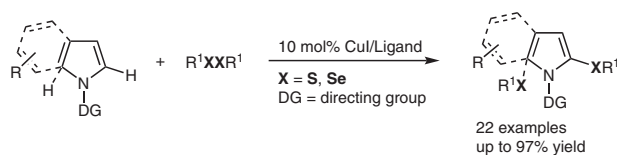
W. Xu  
Y.-Y. Hei  
J.-L. Song  
X.-C. Zhan  
X.-G. Zhang  
C.-L. Deng\*

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

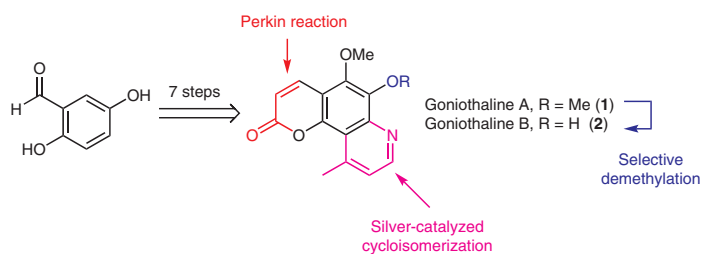
Paper

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'-spirobi-indane-7,7'-diol

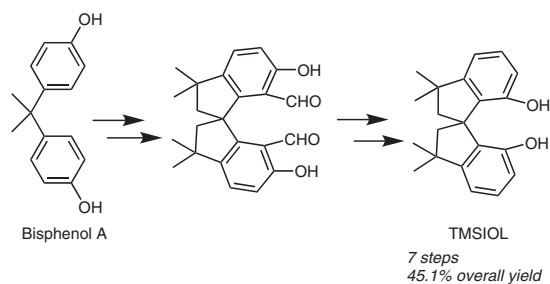
Paper

557

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

Q. Zhou  
R. Pan  
H. Shan  
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Zhejiang University,  
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## 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

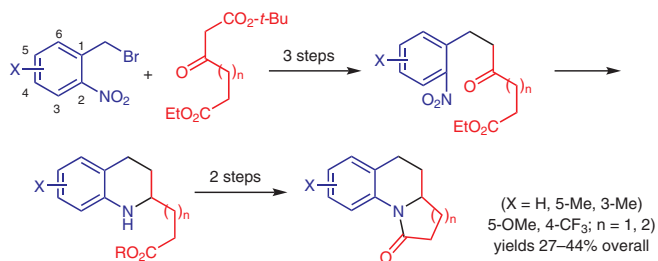
Paper

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

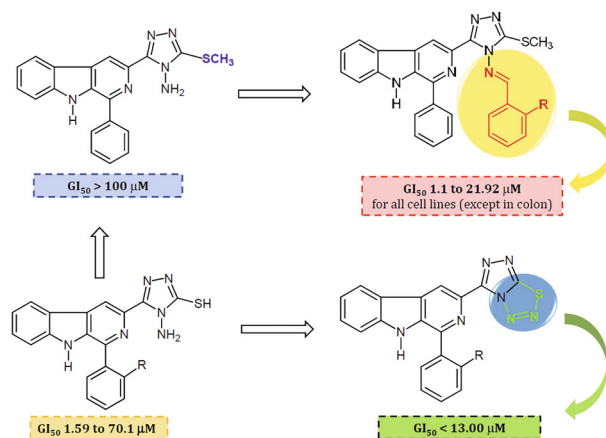
Paper

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

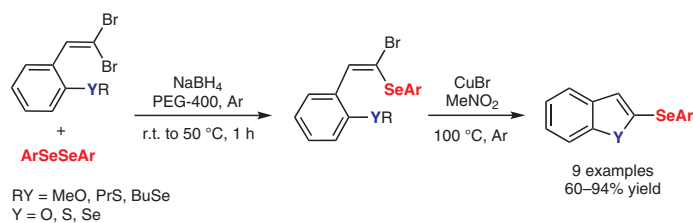
Paper

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\*

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## Synthesis

## Instructions for Authors

XVII