

Synlett

Total Synthesis of Astellatol: A Three-Decade Synthetic Puzzle

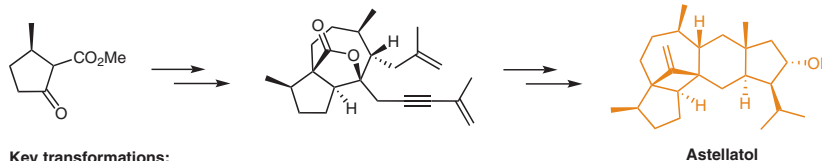
Synfacts

1933

Synlett 2018, 29, 1933–1936
DOI: 10.1055/s-0037-1610149

N. Zhao
S. Xie
H. Huang
J. Xu*

Southern University of Science
and Technology, P. R. of China



Key transformations:

- 1) A TMS group dominated facial selective hydrogenation
- 2) An intramolecular Pauson–Khand reaction formed the hydriodane scaffold
- 3) An unprecedented SmI_2 -mediated reductive radical 1,6-addition forged the cyclobutane
- 4) A strategic oxidation/reduction unravelled extremely challenging late-stage *trans*-hydriodane synthesis

Astellatol

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The Direct Pd-Catalyzed $\beta\text{-C}(\text{sp}^3)\text{-H}$ Activation of Carboxylic Acids

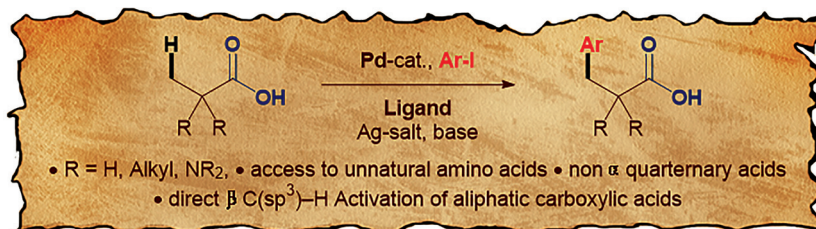
Synfacts

1937

Synlett 2018, 29, 1937–1943
DOI: 10.1055/s-0037-1610150

A. Uttry
M. van Gemmeren*

Westfälische Wilhelms-Universi-
tät-Münster, Germany



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Proline-Catalyzed Asymmetric α -Amination in the Synthesis of Bioactive Molecules

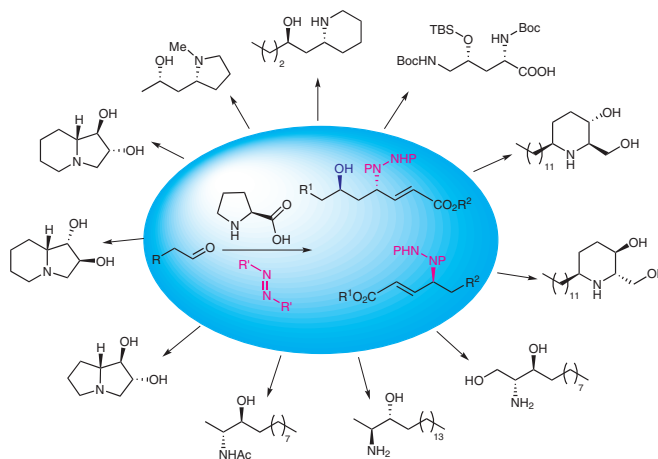
Account

1944

Synlett 2018, 29, 1944–1956
DOI: 10.1055/s-0037-1610022

P. Kumar*

B. M. Sharma

Organic Chemistry Division,
CSIR-National Chemical Laboratory,
India

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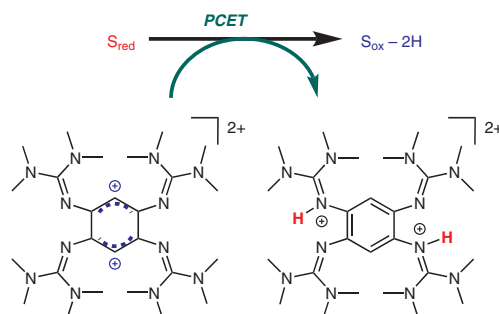
Guanidines as Reagents in Proton-Coupled Electron-Transfer Reactions and Redox Catalysts

Account

1957

Synlett 2018, 29, 1957–1977
DOI: 10.1055/s-0037-1610156

H.-J. Himmel*

Ruprecht-Karls-Universität Heidelberg,
Germany

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Synthesis of Polycyclic Frameworks through Iron-Catalyzed Intramolecular [5+2] Cycloaddition

Letter

1978

Synlett 2018, 29, 1978–1982
DOI: 10.1055/s-0037-1610258

Y. Liu

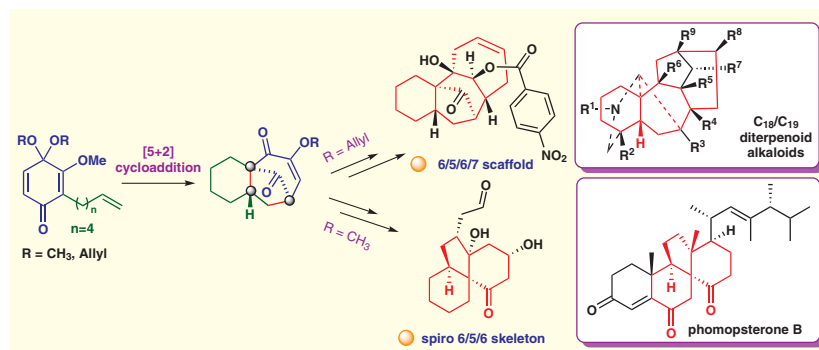
Y. Zhang

X. Wang

S. Fu*

B. Liu*

Sichuan University, P. R. of China



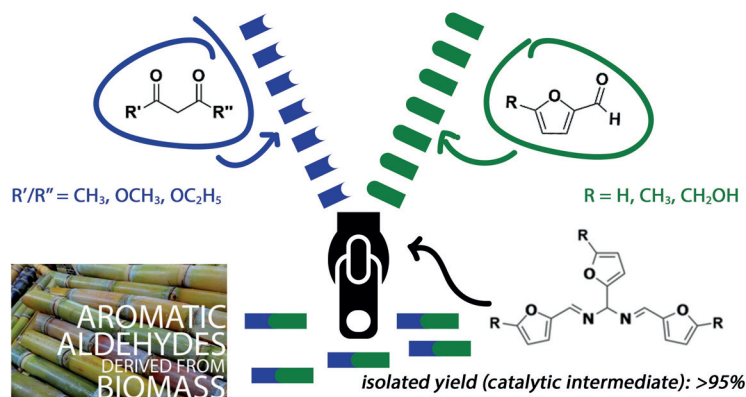
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Synlett 2018, 29, 1983–1988
DOI: 10.1055/s-0037-1610235J. van Schijndel*
L. A. Canalle
D. Molendijk
J. MeuldijkAvans University of Applied Science,
The Netherlands

Exploration of the Role of Double Schiff Bases as Catalytic Intermediates in the Knoevenagel Reaction of Furanic Aldehydes: Mechanistic Considerations

Letter

1983



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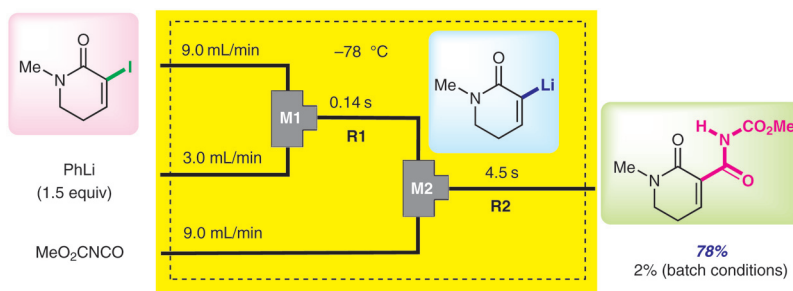
Synlett 2018, 29, 1989–1994
DOI: 10.1055/s-0037-1610228K. Komuro
A. Nagaki
H. Shimoda
M. Uwamori
J.-i. Yoshida
M. Nakada*

Waseda University, Japan

Efficient Preparation of Cyclic α -Alkylidene β -Oxo Imides by Using a Flow Microreactor System

Letter

1989



Synlett

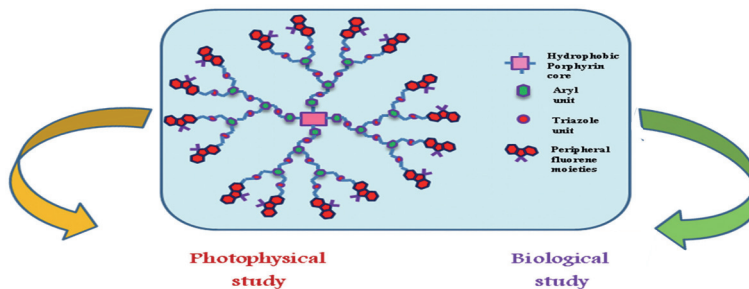
Synlett 2018, 29, 1995–2000
DOI: 10.1055/s-0037-1610218D. Anandkumar
P. Rajakumar*

University of Madras, India

Photophysical and Electrochemical Properties and Anticancer Activities of Porphyrin-Cored Fluorenodendrimers Synthesized by Click Chemistry

Letter

1995



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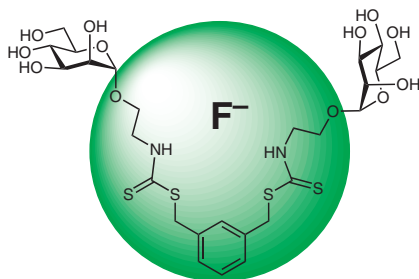
Synlett 2018, 29, 2001–2005
DOI: 10.1055/s-0037-1610533R. Das*
B. Mishra
B. Mukhopadhyay*

Indian Institute of Science Education and Research (IISER) Kolkata, India

A 'Turn-on' Fluorescence Glycosyl Dithiocarbamate Probe for Selective Fluoride Sensing in Aqueous Medium

Letter

2001



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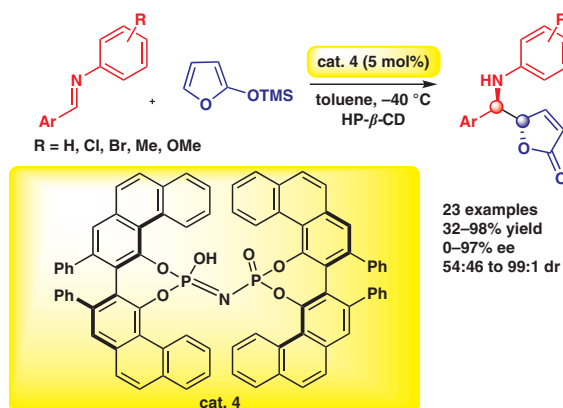
Synlett 2018, 29, 2006–2010
DOI: 10.1055/s-0037-1610232T. Zhou
J. Gao
G. Liu
X. Guan
D. An
S. Zhang*
G. Zhang*

Jilin University, P. R. of China

Chiral VAPOL Imidodiphosphoric Acid-Catalyzed Asymmetric Vinylogous Mannich Reaction for the Synthesis of Butenolides

Letter

2006



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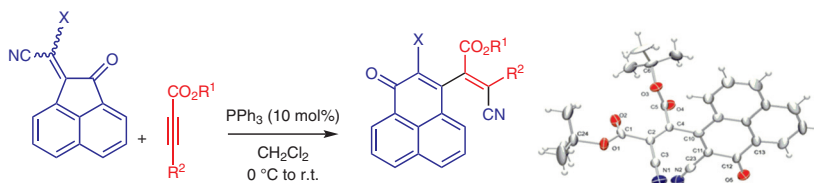
Synlett 2018, 29, 2011–2014
DOI: 10.1055/s-0037-1610253I. Yavari*
A. Khajeh-Khezri
M. R. Halvagar

Tarbiat Modares University, Iran

A Synthesis of Novel Perinaphthenones from Acetylenic Esters and Acenaphthoquinone–Malononitrile Adduct in the Presence of Triphenylphosphine

Letter

2011

X = CN, CO₂Et
R¹ = Me, Et, ^tBu
R² = H, CO₂Me, CO₂Et, CO₂^tBu

- 10 Examples, 75–88% yield
- Regioselective
- Mild reaction conditions
- Metal-free catalyst

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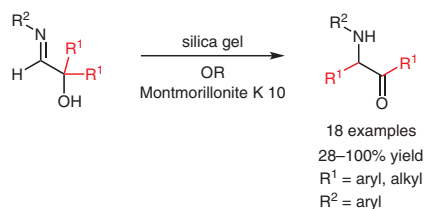
Synlett 2018, 29, 2015–2018
DOI: 10.1055/s-0037-1610262X. Zhang
Y. Dai
W. D. Wulff*

Michigan State University, USA

The Acceleration of the Rearrangement of α -Hydroxy Aldimines by Lewis or Brønsted Acids

Letter

2015



Synlett

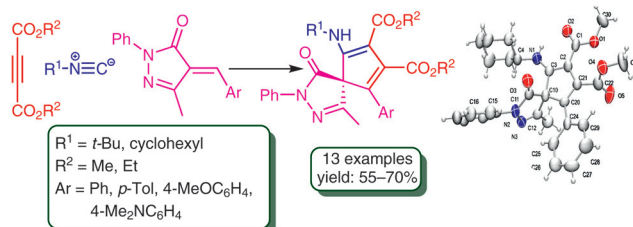
Synlett 2018, 29, 2019–2022
DOI: 10.1055/s-0037-1610549I. Yavari*
J. Sheykhahmadi
S. Bahemat
M. R. Halvagar

Tarbiat Modares University, Iran

A Convenient Synthesis of Functionalized 2,3-Diazaspiro[4.4]nona-1,6,8-trienes

Letter

2019



Synlett

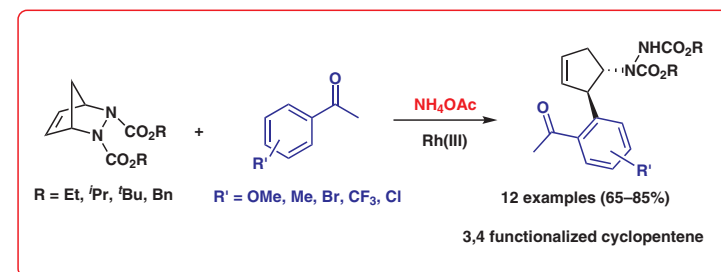
Synlett 2018, 29, 2023–2026
DOI: 10.1055/s-0037-1610654P. V. Santhini
G. Gopalan
A. S. Smrithy
K. V. Radhakrishnan*

National Institute for Interdisciplinary Science and Technology (CSIR), India

Rhodium(III)-Catalyzed C–H Activation/Alkylation of Diazabicyclic Olefins with Aryl Ketones: Facile Synthesis of Functionalized Cyclopentenes

Letter

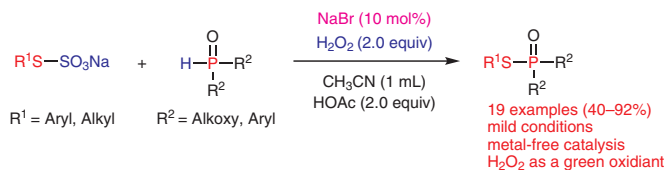
2023



Synlett 2018, 29, 2027–2030
DOI: 10.1055/s-0037-1609556

C. Min
R. Zhang
Q. Liu
S. Lin*
Z. Yan*

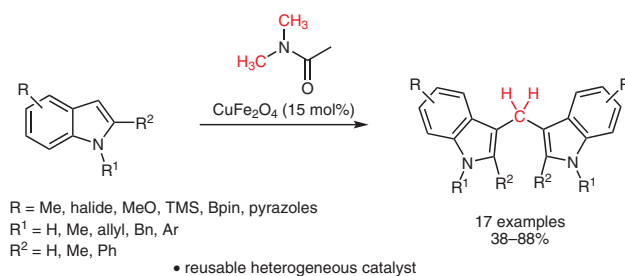
Nanchang University,
P. R. of China



Synlett 2018, 29, 2031–2034
DOI: 10.1055/s-0037-1610227

P. T. Ha
O. T. K. Nguyen
K. D. Huynh
T. T. Nguyen
N. T. S. Phan*

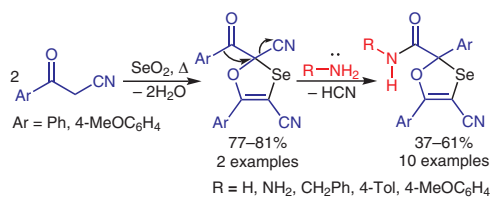
HCMC University of Technology,
Vietnam



Synlett 2018, 29, 2035–2038
DOI: 10.1055/s-0037-1609939

A. V. Kachanov*
A. V. Zamaraev
A. V. Gerasimenko
K. V. Maslov
O. Yu. Slabko
V. A. Kaminskii

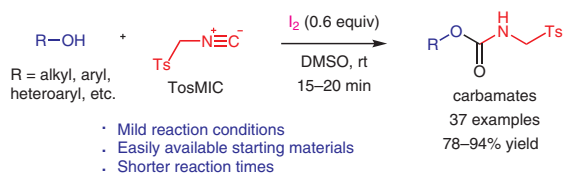
Far Eastern Federal University,
Russian Federation



Synlett 2018, 29, 2039–2042
DOI: 10.1055/s-0037-1610229

N. Pogaku
P. R. Krishna
Y. L. Prapurna*

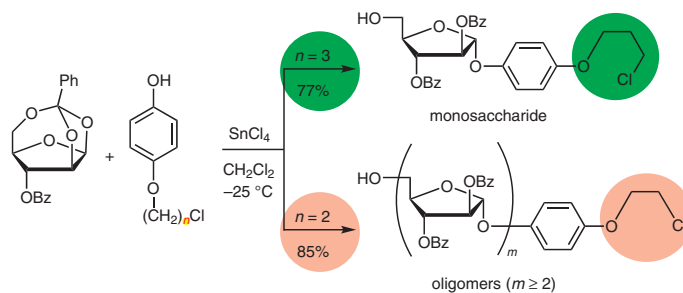
CSIR-Indian Institute of Chemical
Technology, India



Synlett 2018, 29, 2043–2045
DOI: 10.1055/s-0037-1610648

E. V. Stepanova
N. M. Podvalnyy
P. I. Abronina
L. O. Kononov*

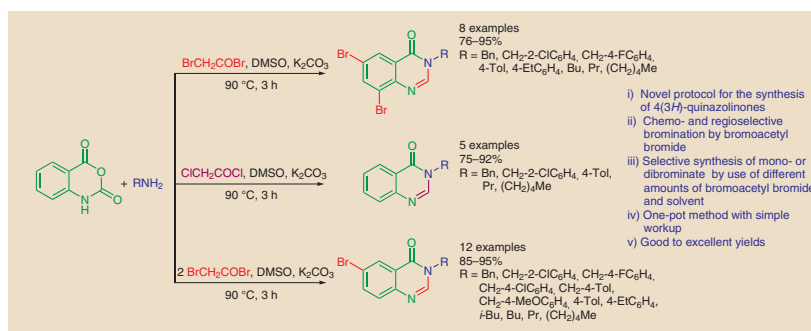
N. D. Zelinsky Institute of Organic
Chemistry of the Russian
Academy of Sciences, Russian
Federation



Synlett 2018, 29, 2046–2050
DOI: 10.1055/s-0037-1610226

E. Sheikhi*
M. Adib*
R. Yazraf
M. Jahani
M. Ghavidel

University of Tehran, Iran



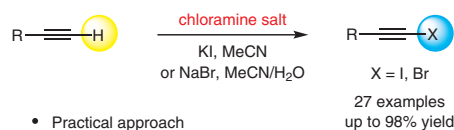
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Synlett 2018, 29, 2051–2055
DOI: 10.1055/s-0037-1610259X. Liu
G. Chen
C. Li
P. Liu*Zunyi Medical University,
P. R. of China

Chloramine Salt Mediated Oxidative Halogenation of Terminal Alkynes with KI or NaBr: Practical Synthesis of 1-Bromoalkynes and 1-Iodoalkynes

Letter

2051



- Practical approach
- Simple operation
- Gram-scale synthesis
- General access to 1-bromoalkynes and 1-iodoalkynes

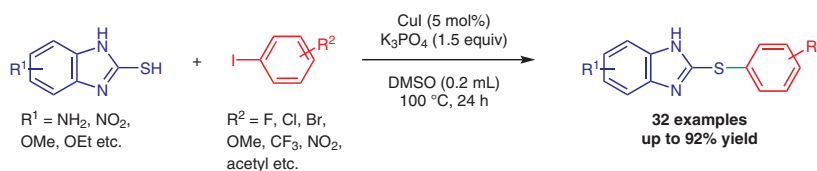
Synlett

Synlett 2018, 29, 2056–2060
DOI: 10.1055/s-0037-1610655B. Y.-H. Tan
Y.-C. Teo*Nanyang Technological University,
Singapore

Ligand-Free CuI-Catalyzed Chemoselective S-Arylation of 2-Mercaptobenzimidazole with Aryl Iodides

Letter

2056



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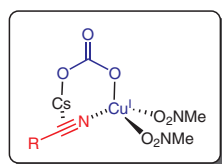
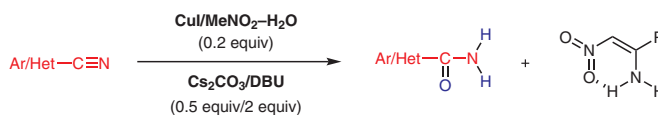
Synlett 2018, 29, 2061–2065
DOI: 10.1055/s-0037-1609912J. Kuwabara
Y. Sawada
M. Yoshimatsu*

Gifu University, Japan

Nitrile Hydration Reaction Using Copper Iodide/Cesium Carbonate/DBU in Nitromethane–Water

Letter

2061



total 30 examples
up to 90% yield, 9 examples
70–89% yield, 8 examples
selective amide formation
scalable up to 1.0 g (10 mmol)
useful for nitrile hydration
of the ester or carbamate
groups

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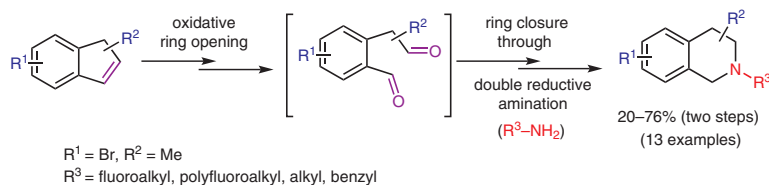
A De Novo Synthetic Route to 1,2,3,4-Tetrahydroisoquinoline Derivatives

Letter

2066

Synlett 2018, 29, 2066–2070
DOI: 10.1055/s-0037-1609494R. A. Ábrahám
S. Fustero
F. Fülöp*
L. Kiss*

University of Szeged, Hungary

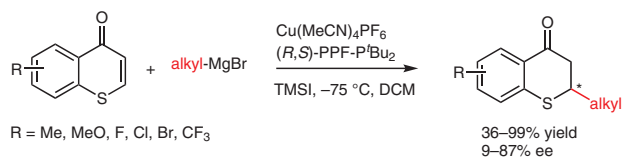


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Cu-Catalyzed Conjugate Addition of Grignard Reagents to Thiochromones: An Enantioselective Pathway for Accessing 2-Alkylthiochromanones

Letter

2071

Synlett 2018, 29, 2071–2075
DOI: 10.1055/s-0037-1610225S. Luo
L. Meng
Q. Yang*
J. (J.) Wang*Southern University of Science and Technology, P. R. of China
Guizhou Normal University, P. R. of China

Synlett

Transition-Metal-Free Synthesis of Thiosulfonates through Radical Coupling Reaction

Letter

2076

Synlett 2018, 29, 2076–2080
DOI: 10.1055/s-0037-1610649G. Zhou
X.-D. Xu
G.-P. Chen
W.-T. Wei*
Z. Guo*Ningbo University, P. R. of China
Hunan University, P. R. of China