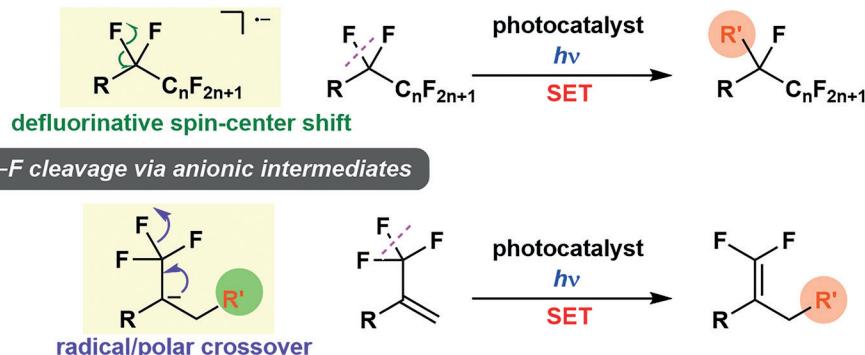


Synthesis

Reviews and Full Papers in Chemical Synthesis

June 15, 2022 • Vol. 54, 2731–2926



C(sp^3)-F Bond Transformation of Perfluoroalkyl Compounds
Mediated by Visible-Light Photocatalysis: Spin-Center Shifts and
Radical/Polar Crossover Processes via Anionic Intermediates

Y. Nishimoto, N. Sugihara, M. Yasuda

12

 Thieme

Synthesis

Recyclable Hypervalent Iodine Reagents in Modern Organic Synthesis

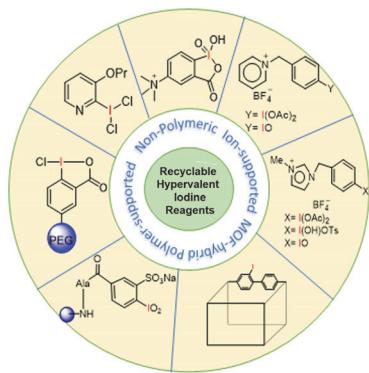
Review

2731

Synthesis 2022, 54, 2731–2748
DOI: 10.1055/s-0041-1737909

Rimi
S. Soni
B. Uttam
H. China
T. Dohi*
V. V. Zhdankin*
R. Kumar*

J.C. Bose University of Science
and Technology, India
Ritsumeikan University, Japan
University of Minnesota Duluth,
USA



Synthesis

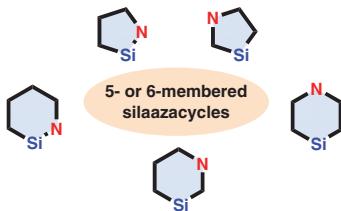
Synthetic Approaches for the Construction of Five- and Six-Membered Silaazacycles

Short Review

2749

Synthesis 2022, 54, 2749–2764
DOI: 10.1055/a-1755-3832

W. Wang
L. Gao*
Z. Song*
Sichuan University, P. R. of China

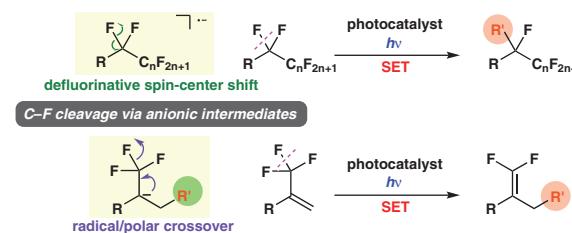


Y. Nishimoto*

N. Sugihara

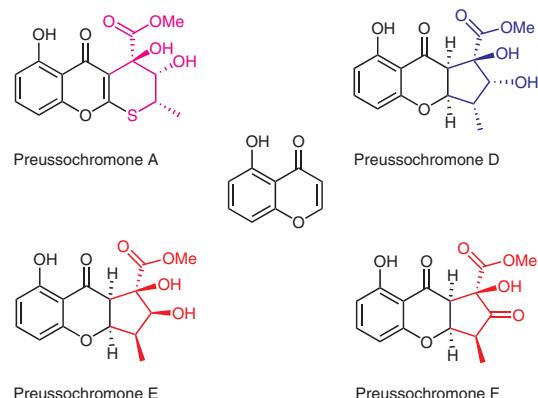
M. Yasuda*

Osaka University, Japan



M. P. Beller

U. Koert*

Philipps-Universität Marburg,
Germany

J. Qiu

J. Hou

Z. Sun

P. Xie*

Nanjing Tech University,
P. R. China

Synthesis

Synthesis 2022, 54, 2799–2815
DOI: 10.1055/a-1767-3026

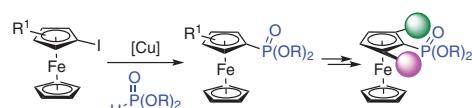
Ferrocenephosphonates: Copper-Promoted Synthesis and Further Functionalization**Feature**

2799

K. Abaid**W. Erb*****M. Blot****T. Roisnel****F. Mongin****S. Touil***

Univ Rennes, France

University of Carthage, Tunisia

Cu-promoted Hirao coupling and post-functionalizations**Synthesis**

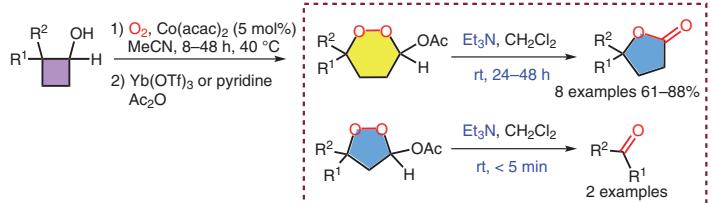
Synthesis 2022, 54, 2816–2824
DOI: 10.1055/a-1765-1615

From Ring-Expansion to Ring-Contraction: Synthesis of γ -Lactones from Cyclobutanols and Relative Stability of Five- and Six-Membered Endoperoxides toward Organic Bases**Feature**

2816

N. Jamey**L. Ferrié***

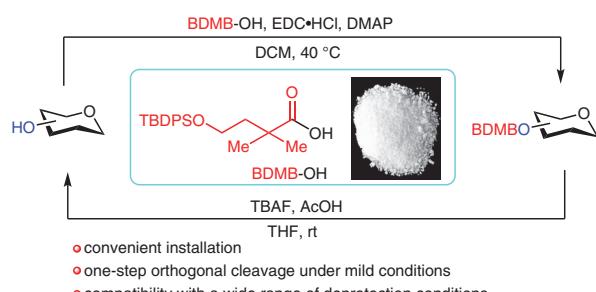
Université Paris-Saclay, France

**Synthesis**

Synthesis 2022, 54, 2825–2838
DOI: 10.1055/a-1751-1225

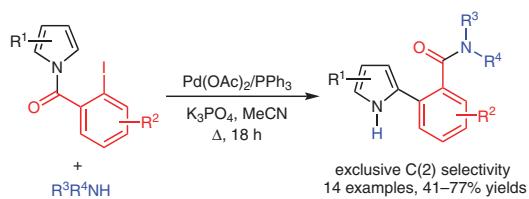
4-(*tert*-Butyldiphenylsilyloxy)-2,2-dimethylbutanoyl: An Easily Removable Pivaloyl-Type Protecting Group with High Orthogonality**Paper**

2825

Q. Li**Y. Su****Z. Qiao****J. Wang****P. Wang****S. Ren****N. Song****M. Li***Ocean University of China,
P. R. of ChinaPilot National Laboratory for
Marine Science and Technology,
P. R. of China

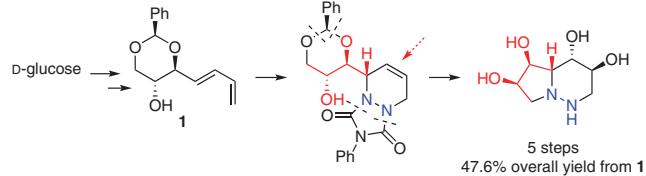
M. Petkovic*
 M. Jovanovic
 P. Jovanovic
 M. Simic
 G. Tasic
 V. Savic*

University of Belgrade, Serbia



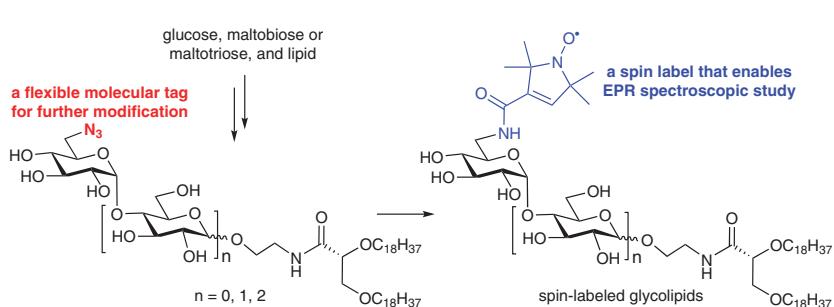
C. E. A. Sousa*
 D. A. L. Salgueiro
 M. J. Alves

Universidade do Minho, Portugal



X. Yan
 Z. Guo*

University of Florida, USA



Synthesis

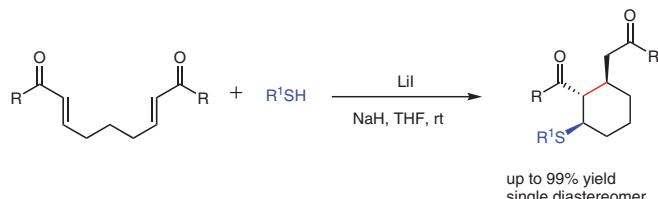
Synthesis 2022, 54, 2865–2875
DOI: 10.1055/a-1754-7424

Stereoselective Synthesis of Cyclohexane Derivatives: Tandem Lithium Iodide Mediated Intramolecular Conjugate Addition of Thiols to α,β -Bisenones**Paper**

2865

M. Jeon
C. Yun
S. Seo*

Pukyong National University,
Republic of Korea

**Synthesis**

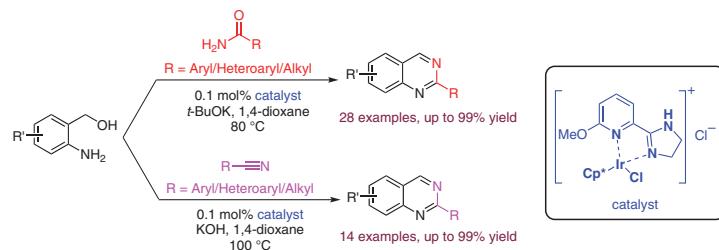
Synthesis 2022, 54, 2876–2884
DOI: 10.1055/a-1755-4700

Iridium-Catalyzed Acceptorless Dehydrogenative Coupling of 2-Aminoarylmethanols with Amides or Nitriles to Synthesize Quinazolines**Paper**

2876

H. Shui
Y. Zhong
L. Ouyang
N. Luo*
R. Luo*

Gannan Medical University,
P. R. of China

**Synthesis**

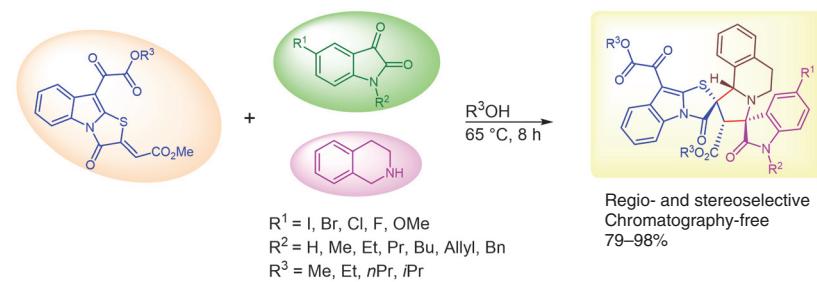
Synthesis 2022, 54, 2885–2893
DOI: 10.1055/a-1777-2423

Stereoselective Synthesis of Dispirooxindoles Incorporating Pyrrolo[2,1-*a*]isoquinoline via [3+2] Cycloaddition of Azomethine Ylides with a Thiazolo[3,2-*a*]indole Dipolarophile**Paper**

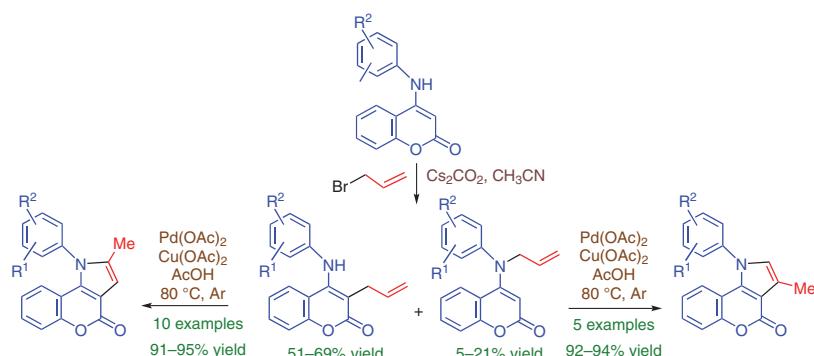
2885

N. V. Thomas
C. B. Meenakshy
S. S. Leena
A. Deepthi*

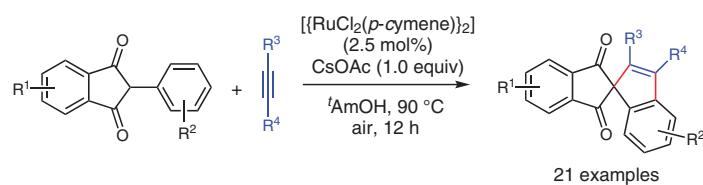
University of Kerala, India



T. D. Balalas
 M. G. Kanelli
 C. Gabriel
 E. Pontiki
 D. J. Hadjipavlou-Litina
 K. E. Litinas*
 Aristotle University of
 Thessaloniki, Greece



B. R. Bora
 S. Sultana
 B. Sarma
 S. Gogoi*
 CSIR-North East Institute of Science and Technology, India
 Academy of Scientific and Innovative Research (AcSIR), India



M. B. Haarr
 Ó. Lopéz
 J. G. Fernández-Bolaños
 E. Lindbäck*
 M. O. Sydnes*
 University of Stavanger, Norway

