

# Synthesis

Reviews and Full Papers in Chemical Synthesis

January 19, 2023 • Vol. 55, 159–368

## Special Issue

dedicated to the 80<sup>th</sup> Birthday of Prof. Alain Krief  
(Part I)

*Guest editor: Guillaume Berionni*



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## Synthesis

*Synthesis* 2023, 55, 159–163  
DOI: 10.1055/s-0040-1720037

H. Hopf\*

G. Mehta

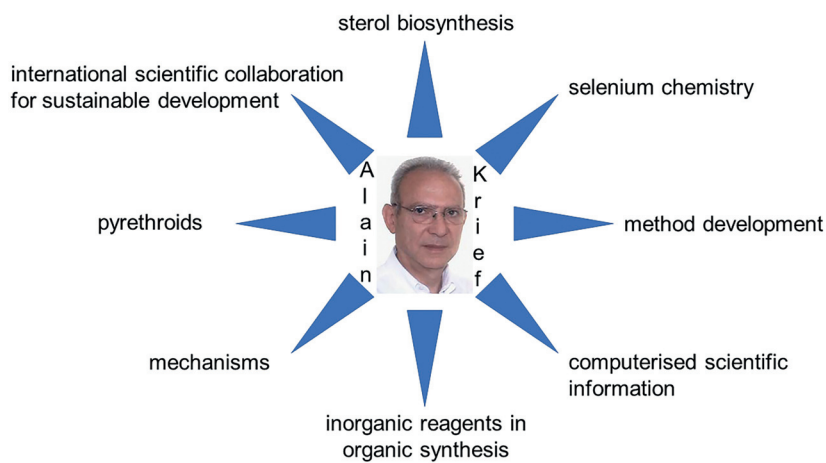
S. A. Matlin

Technische Universität Braun-  
schweig, Germany

## Professor Alain Krief: Advancing Chemistry; From Innovative Synthesis to Promoting Sustainable Development

Preface

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## Synthesis

*Synthesis* 2023, 55, 164–192  
DOI: 10.1055/a-1932-6937

K. Gadde

D. De Vos

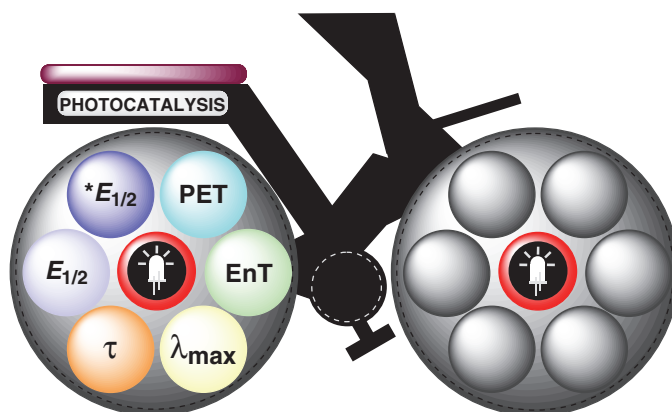
B. U. Maes\*

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## Basic Concepts and Activation Modes in Visible-Light-Photocatalyzed Organic Synthesis

Review

164



## Synthesis

*Synthesis* **2023**, *55*, 193–231  
DOI: 10.1055/a-1946-0512

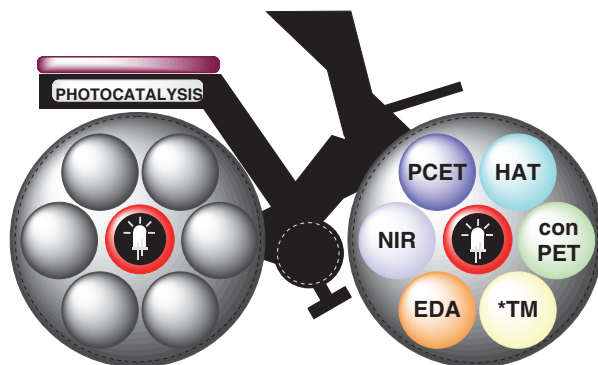
**D. De Vos**  
**K. Gadde**  
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## Emerging Activation Modes and Techniques in Visible-Light-Photocatalyzed Organic Synthesis

Review

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## Synthesis

*Synthesis* **2023**, *55*, 232–239  
DOI: 10.1055/a-1757-2680

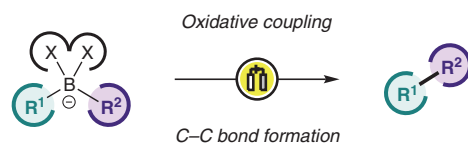
**D. Didier\***

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## Forging C–C Bonds through Intramolecular Oxidative Coupling of Organoborates – An Overview

Short Review

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## Synthesis

*Synthesis* **2023**, *55*, 240–245  
DOI: 10.1055/a-1896-8449

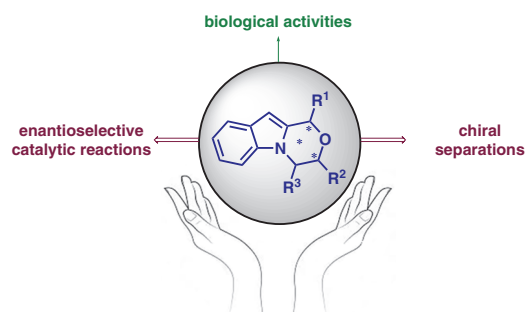
**A. Dupeux**  
**V. Michelet\***

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Chiral 1,4-Oxazino[4,3-*a*]indoles as a Challenging Scaffold: Syntheses and Properties

Short Review

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## Synthesis

## Copillar[5]arene Chemistry: Synthesis and Applications

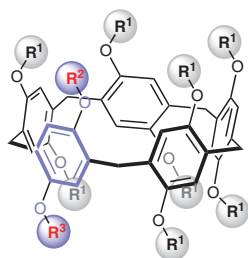
## Short Review

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*Synthesis* **2023**, *55*, 246–262  
DOI: 10.1055/s-0040-1738369

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Copillar[4+1]arene

## Synthesis

## Halodiazirines as Valuable Reagents for the Synthesis of Halocyclopropanes

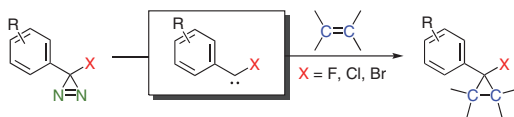
## Short Review

263

*Synthesis* **2023**, *55*, 263–271  
DOI: 10.1055/a-1961-8237

H.-M. To  
O. Malets  
M. Mazur  
O. Mykhailenko  
O. Kompaniets  
T. Ollevier\*

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## Synthesis

## Radical Cyclization of Ynamides to Nitrogen Heterocycles

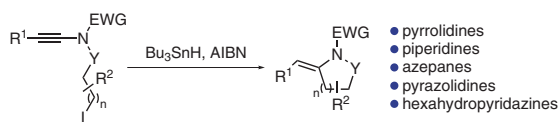
## Paper

272

*Synthesis* **2023**, *55*, 272–288  
DOI: 10.1055/a-1868-8092

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## Synthesis

Synthesis 2023, 55, 289–296  
DOI: 10.1055/a-1878-8597

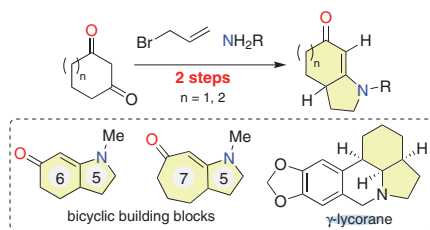
Y. Chen  
X.-T. Hu  
X.-Y. Xie  
D. Li  
C.-X. Zheng  
Y.-X. Zhang  
W.-J. Wang  
R. Zhan\*  
L.-D. Shao\*

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## A Practical Approach to 6*H*-Indol-6-ones Enables the Formal Synthesis of $\gamma$ -Lycorane

Paper

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## Synthesis

Synthesis 2023, 55, 297–306  
DOI: 10.1055/a-1921-8664

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## Crystal Structures of Organoselenium Compounds: Structural Descriptors for Chalcogen Bonds

Paper

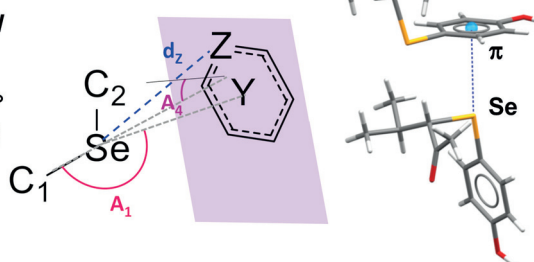
297

Relevant parameters for  $\text{Ch}\cdots\pi$  interactions:

$d_z < \text{sum of vdW radii of Se and Z}$

$A_1$  close to  $180^\circ$   
( $150^\circ < A_1 < 180^\circ$ )

$A_4$  close to  $0^\circ$   
( $0^\circ < A_4 < 40^\circ$ )



## Synthesis

Synthesis 2023, 55, 307–314  
DOI: 10.1055/a-1508-9593

M. Elsherbini  
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F. Karam  
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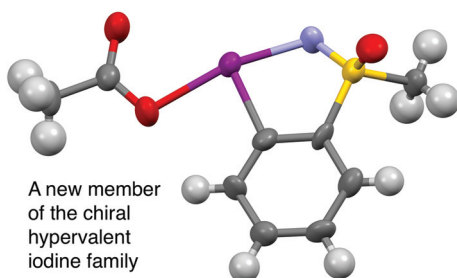
Cardiff University, UK

## Sulfur-Based Chiral Iodoarenes: An Underexplored Class of Chiral Hypervalent Iodine Reagents

Paper

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A new member  
of the chiral  
hypervalent  
iodine family

Synthesis

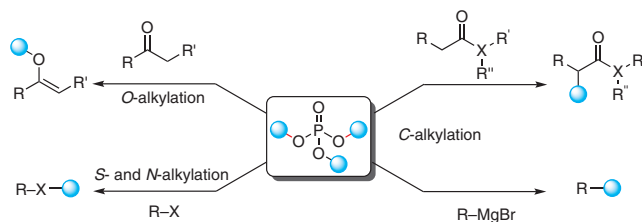
Synthesis 2023, 55, 315–332  
DOI: 10.1055/a-1504-8366

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Regio- and Stereoselective ( $S_N2$ ) *N*-, *O*-, *C*- and *S*-Alkylation Using Trialkyl Phosphates

Paper

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Synthesis

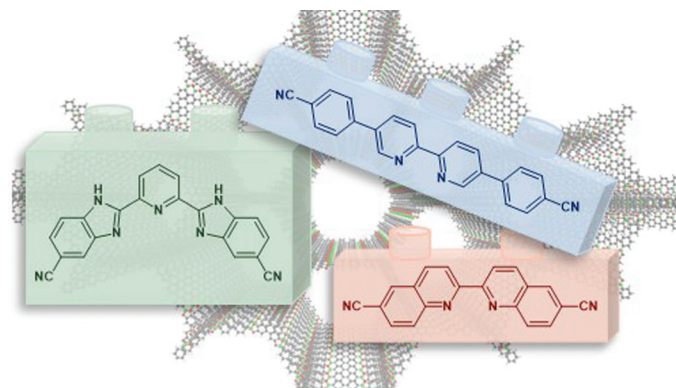
Synthesis 2023, 55, 333–340  
DOI: 10.1055/a-1626-5749

J. Everaert  
M. Debruyne  
F. Vanden Bussche  
K. Van Hecke  
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Synthesis of Nitrile-Functionalized Polydentate N-Heterocycles as Building Blocks for Covalent Triazine Frameworks

Paper

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Synthesis

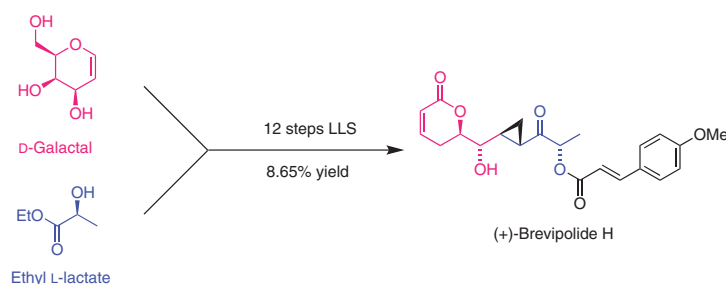
Synthesis 2023, 55, 341–346  
DOI: 10.1055/a-1700-3520

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Stereoselective Total Synthesis of (+)-Brevipolide H from D-Galactal

Paper

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## Synthesis

## A Selenium-Bridged 10-Boratriptycene Lewis Acid

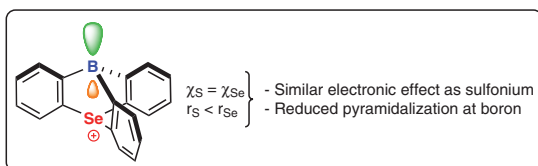
Paper

347

Synthesis 2023, 55, 347–353  
DOI: 10.1055/a-1840-5680

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## Synthesis

## Elucidation of the Nucleophilic Potential of Diazocyclopentadiene

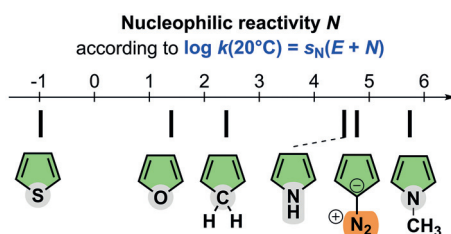
Paper

354

Synthesis 2023, 55, 354–358  
DOI: 10.1055/s-0041-1737327

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## Synthesis

## Expanding the Library of 2-Phenylbenzotellurazoles: Red-Shifting Effect of Ethoxy Functionalities on the UV/Vis Absorption Properties

Paper

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Synthesis 2023, 55, 359–367  
DOI: 10.1055/s-0041-1737898

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