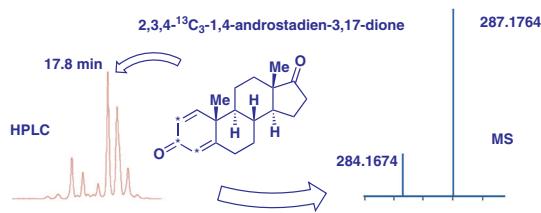
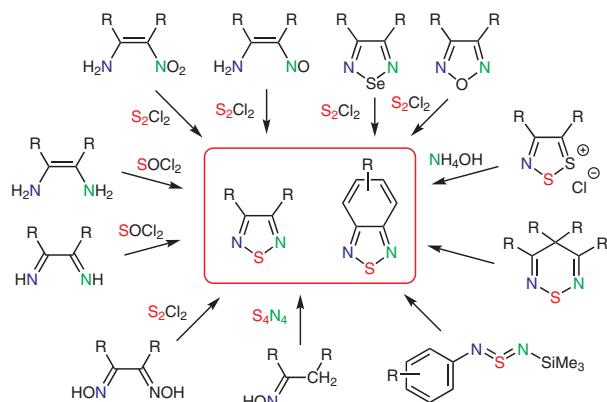


Synthesis
Synthesis of ^{13}C -Labeled Steroids
Review
4311
Synthesis 2019, 51, 4311–4337
DOI: 10.1055/s-0037-1611914

F. Dénès
J. Farard
J. Lebreton*
 Université de Nantes, France

Synthesis
Recent Developments in the Synthesis of 1,2,5-Thiadiazoles and 2,1,3-Benzothiadiazoles
Short Review
4338
Synthesis 2019, 51, 4338–4347
DOI: 10.1055/s-0039-1690679

O. A. Rakitin*
 N. D. Zelinsky Institute of Organic Chemistry, Russian Federation


Synthesis

Synthesis 2019, 51, 4348–4358
DOI: 10.1055/s-0037-1610732

F. Li
F. He
R. M. Koenigs*
RWTH Aachen University,
Germany

Catalyst-Free [2,3]-Sigma tropic Rearrangement Reactions of Photochemically Generated Ammonium Ylides

Feature
4348

metal-free photochemical rearrangement reactions of ammonium ylides

**key features**

- ✓ mild reaction conditions
- ✓ operatively simple
- ✓ metal-free
- ✓ broad applicability
- ✓ compatibility with cyclic amines

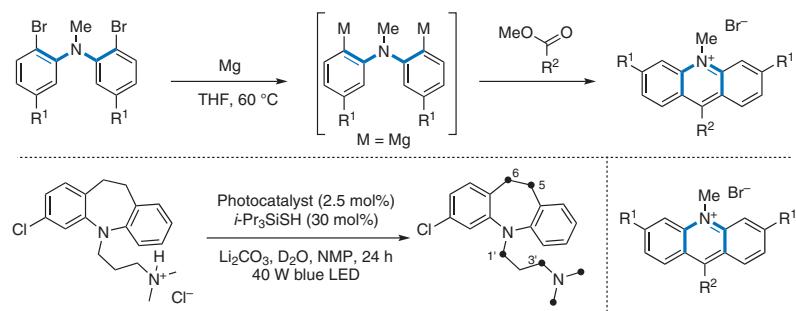
Synthesis

Synthesis 2019, 51, 4359–4365
DOI: 10.1055/s-0039-1690694

B. Zilate
C. Fischer
L. Schneider
C. Sparr*
University of Basel, Switzerland

Scalable Synthesis of Acridinium Catalysts for Photoredox Deuterations

PSP
4359

**Synthesis**

Synthesis 2019, 51, 4366–4367
DOI: 10.1055/s-0039-1689994

Special Topic Cover Page: Halogenation Methods (with a View towards Radioimaging Applications)

Special Topic
4366



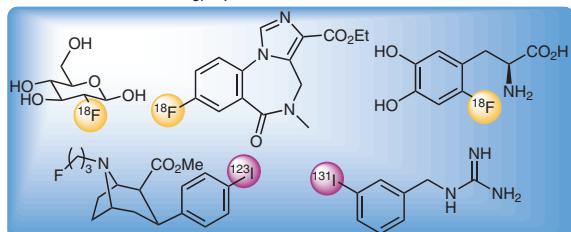
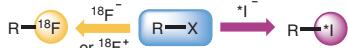
Synthesis

Synthesis 2019, 51, 4368–4373
DOI: 10.1055/s-0037-1611885

A. Sutherland*
University of Glasgow, UK

Radiohalogenation of Organic Compounds: Practical Considerations and Challenges for Molecular Imaging**Special Topic**

4368

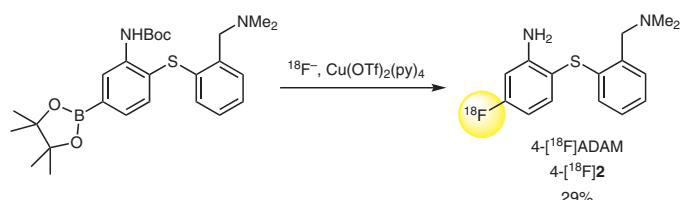
**Synthesis**

Synthesis 2019, 51, 4374–4384
DOI: 10.1055/s-0039-1690522

S. Milicevic Sephton*
X. Zhou
S. Thompson
F. I. Aigbirhio
University of Cambridge, UK

Preparation of the Serotonin Transporter PET Radiotracer 2-([2-[(Dimethylamino)methyl]phenyl]thio)-5-[¹⁸F]fluoroaniline (4-[¹⁸F]ADAM): Probing Synthetic and Radiosynthetic Methods**Special Topic**

4374

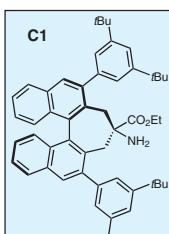
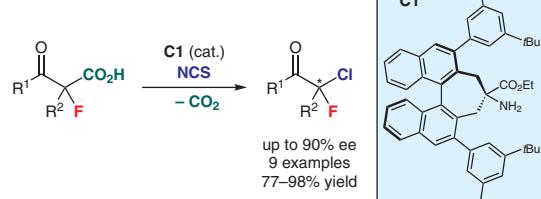
**Synthesis**

Synthesis 2019, 51, 4385–4392
DOI: 10.1055/s-0039-1690009

K. Kitahara
H. Mizutani
S. Iwasa
K. Shibatomi*
Toyohashi University of Technology, Japan

Asymmetric Synthesis of α -Chloro- α -halo Ketones by Decarboxylative Chlorination of α -Halo- β -ketocarboxylic Acids**Special Topic**

4385



Synthesis

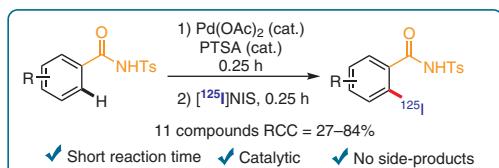
Synthesis 2019, 51, 4393–4400
DOI: 10.1055/s-0037-1611884

Improvements of C–H Radio-Iodination of *N*-Acylsulfonamides toward Implementation in Clinics**Special Topic**

4393

E. Dubost**V. Babin****F. Benoit****A. Hébert****G. Pigrée****J.-P. Bouillon****F. Fabis****T. Cailly***

Normandie Univ, France
CHU Côte de Nacre, France

**Synthesis**

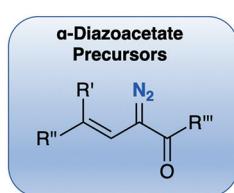
Synthesis 2019, 51, 4401–4407
DOI: 10.1055/s-0039-1690012

Synthesis of $[^{18}\text{F}]$ - γ -Fluoro- α,β -unsaturated Esters and Ketones via Vinylogous ^{18}F -Fluorination of α -Diazoacetates with $[^{18}\text{F}] \text{AgF}$ **Special Topic**

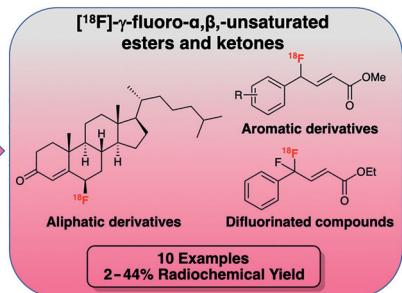
4401

S. Thompson**S. J. Lee****I. M. Jackson****N. Ichiiishi****A. F. Brooks****M. S. Sanford*****P. J. H. Scott***

University of Michigan Medical School, USA
University of Michigan, USA



Vinylogous ^{18}F -Fluorination with $[^{18}\text{F}] \text{AgF}$

**Synthesis**

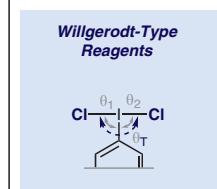
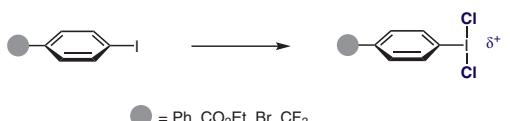
Synthesis 2019, 51, 4408–4416
DOI: 10.1055/s-0037-1611886

Willgerodt-Type Dichloro(aryl)- λ^3 -Iodanes: A Structural Study**Special Topic**

4408

J. C. Sarie**J. Neufeld****C. G. Daniliuc****R. Gilmour***

Westfälische Wilhelms-Universität Münster, Germany

*X-ray and solution-phase analysis*

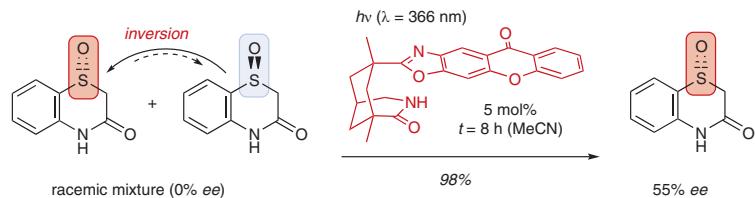
Synthesis

Synthesis 2019, 51, 4417–4424
DOI: 10.1055/s-0039-1690034

L. Wimberger
T. Kratz
T. Bach*
Technische Universität München, Germany

Photochemical Deracemization of Chiral Sulfoxides Catalyzed by a Hydrogen-Bonding Xanthone Sensitizer

Paper
4417

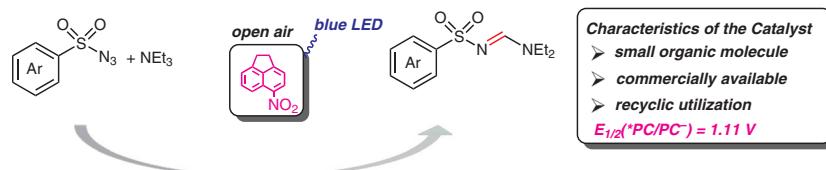
**Synthesis**

Synthesis 2019, 51, 4425–4433
DOI: 10.1055/s-0039-1690984

Y. Jian
M. Chen
C. Yang*
W. Xia*
Harbin Institute of Technology (Shenzhen), P. R. of China

Nitroacenaphthene as a New Photocatalyst for the Synthesis of Sulfonyl Amidines

Paper
4425

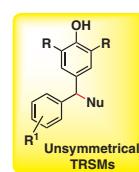
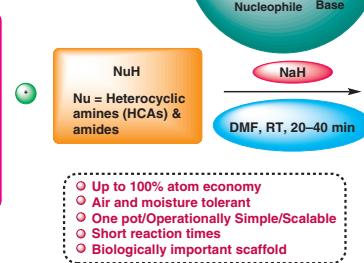
**Synthesis**

Synthesis 2019, 51, 4434–4442
DOI: 10.1055/s-0039-1690677

D. Roy
G. Panda*
CSIR-Central Drug Research Institute, India

Base-Mediated 1,6-Aza-Michael Addition of Heterocyclic Amines and Amides to *para*-Quinone Methides Leading to Meclizine-, Hydroxyzine- and Cetirizine-like Architectures

Paper
4434



27 examples up to 83% yield

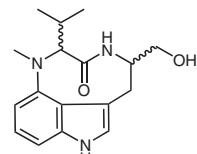
Synthesis

The Synthesis and Biological Evaluation of Indolactam Alkaloids

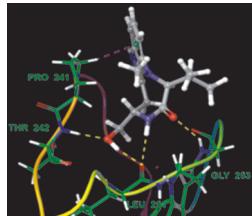
Paper

Synthesis **2019**, *51*, 4443–4451
DOI: 10.1055/s-0039-1690198

M. Mendoza
R. Eom
C. Salas
J. Haynes-Smith
K. L. Billingsley*
California State University Fullerton, USA



$\text{EC}_{50} = 142 \text{ nM}$ to $>10 \mu\text{M}$



4443

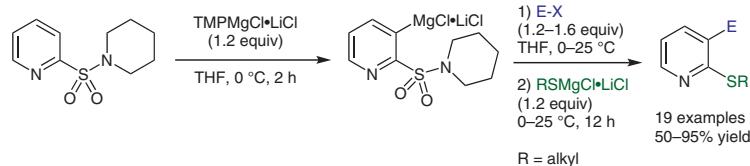
Synthesis

Thiolation of Pyridine-2-sulfonamides using Magnesium Thiolates

Paper

Synthesis **2019**, *51*, 4452–4462
DOI: 10.1055/s-0039-1690199

B. Heinz
M. Balkenhohl
P. Knochel*
Ludwig-Maximilians-Universität
München, Germany



4452

Synthesis

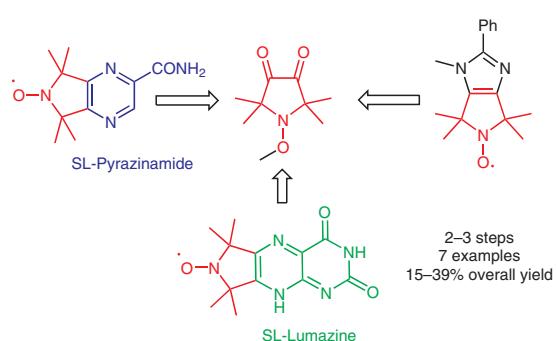
Syntheses of Pyrazine-, Quinoxaline-, and Imidazole-Fused Pyrroline Nitroxides

Paper

Synthesis **2019**, *51*, 4463–4472
DOI: 10.1055/s-0039-1690678

M. Isbera
B. Bognár
G. Gulyás-Fekete
K. Kish
T. Kálai*

University of Pécs, Hungary
Szentágothai Research Centre,
Hungary



4463

Synthesis

Hypervalent Iodine(III)-Catalyzed Epoxidation of β -Cyanostyrenes

Paper

4473

Synthesis 2019, 51, 4473–4486
DOI: 10.1055/s-0039-1690621

S. R. Mangaonkar
F. V. Singh*
VIT Institute, India



R¹ = CN, CO₂Et; R² = H, CN; Ar = Ph, 4-FC₆H₄, 2-CIC₆H₄, 4-CIC₆H₄, 2,3-(Cl)₂C₆H₃, 3-BrC₆H₄, 4-BrC₆H₄, 4-NCC₆H₄, 3-HOC₆H₄, 4-MeC₆H₄, 3,4-(MeO)₂C₆H₃, 3,4,5-(MeO)₃C₆H₂, 2,3,4-(MeO)₃C₆H₂, 4-(BnO)C₆H₄, 3-(HO)-4-(MeO)C₆H₃, 1-Naphthyl, 2-Naphthyl, 9-Anthryl

Synthesis

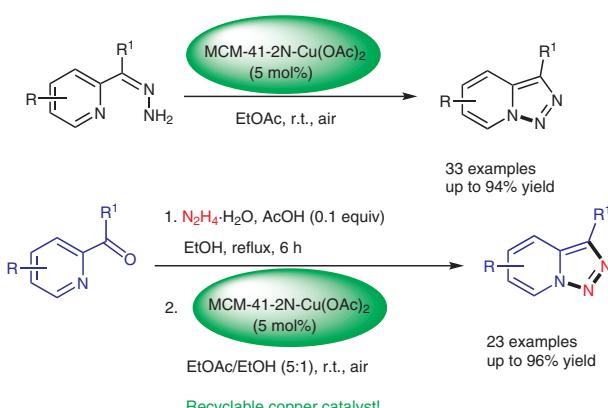
Recyclable Heterogeneous Copper(II)-Catalyzed Oxidative Cyclization of 2-Pyridine Ketone Hydrazones Towards [1,2,3]Triazolo[1,5-*a*]pyridines

Paper

4487

Synthesis 2019, 51, 4487–4497
DOI: 10.1055/s-0037-1610726

G. Jiang
Y. Lin
M. Cai*
H. Zhao*
Guangdong Pharmaceutical University, P. R. of China
Jiangxi Normal University, P. R. of China



Synthesis

Niobium Pentachloride Mediated (Hetero)aromatic Aldehyde Friedel–Crafts Hydroxyalkylation with Arenes: An Efficient Strategy to Synthesize Triarylmethanes

Paper

4498

Synthesis 2019, 51, 4498–4506
DOI: 10.1055/s-0037-1610727

S. M. M. Rodrigues*
D. Previdi
G. S. Baviera
A. A. Matias
P. M. Donate
Universidade de São Paulo, Brazil

