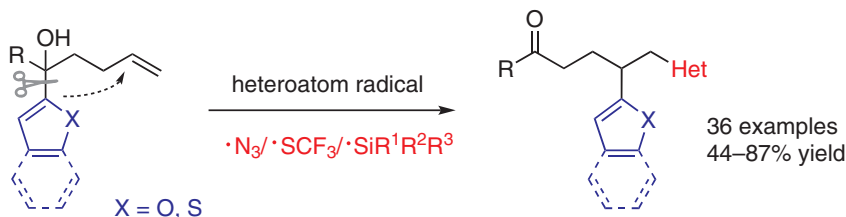


Cluster

Radicals – by Young Chinese Organic Chemists

Editor: Ang Li, Guest Editors: Chen Zhu, Xin-Yuan Liu



- Addition of heteroatom radicals
- Formation of C–Het and C–C bonds

Radical-Mediated Hetaryl Functionalization of Nonactivated Alkenes through Distal *ipso*-Migration of O- or S-Hetaryls

H. Zhang, M. Ji, Y. Wei, H. Chen, X. Wu, C. Zhu

Synlett

Synlett 2021, 32, 329–336
DOI: 10.1055/s-0040-1707326

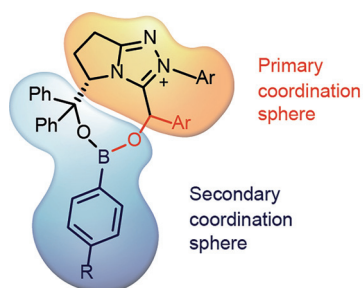
I. L. Zak
S. C. Gadekar
A. Milo*

Ben-Gurion University of the
Negev, Israel

Designing the Secondary Coordination Sphere in Small-Molecule Catalysis

Synfacts

329



Synlett

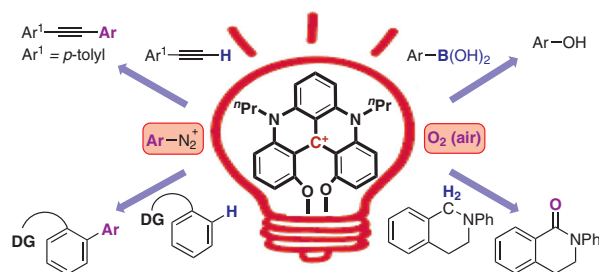
Synlett 2021, 32, 337–343
DOI: 10.1055/s-0040-1705942

L. Mei
T. Gianetti*
University of Arizona, USA

Helical Carbenium Ion-Based Organic Photoredox Catalyst: A Versatile and Sustainable Option in Red-Light-Induced Reactions

Synfacts

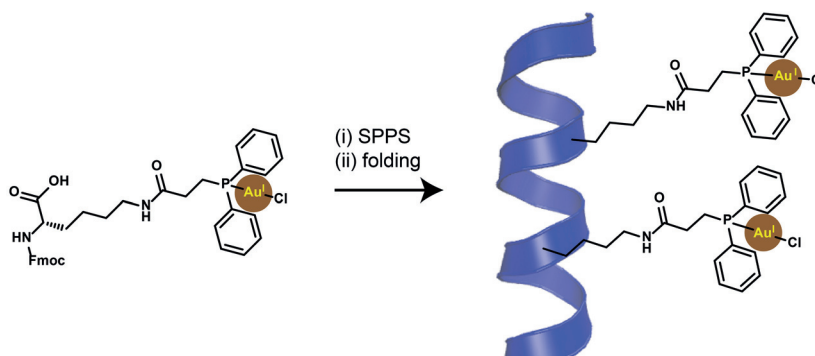
337



Synlett 2021, 32, 344–349
DOI: 10.1055/a-1290-8412

L. Zengerling
B. Kemper
U. A. Hellmich
P. Besenius*

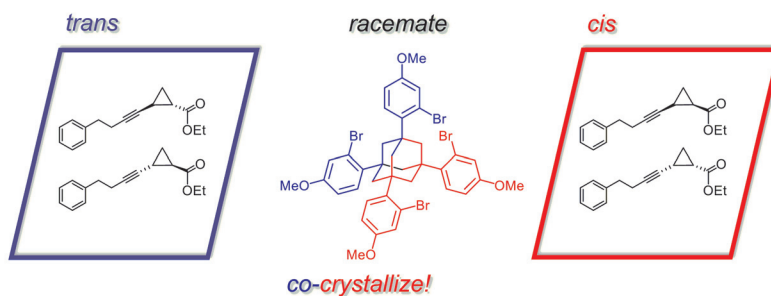
Johannes Gutenberg-University
Mainz, Germany



Synlett 2021, 32, 350–353
DOI: 10.1055/a-1293-9867

F. Krupp
M.-I. Picher
W. Frey
B. Plietker
C. Richert*

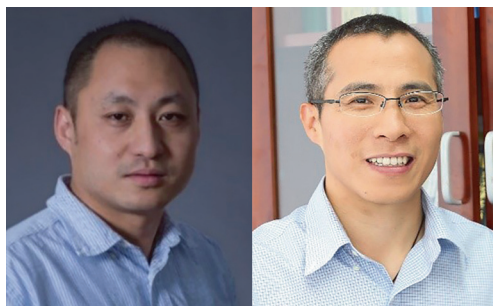
Universität Stuttgart, Germany



Synlett 2021, 32, 354–355
DOI: 10.1055/s-0040-1706712

C. Zhu
X.-Y. Liu

Soochow University, P. R. of
China



Synlett

Synlett 2021, 32, 356–361
DOI: 10.1055/a-1300-3453

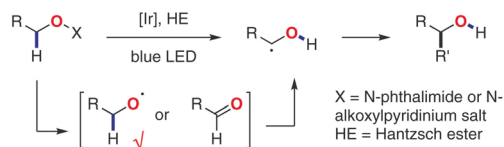
D. Liu
J. Zhang
Y. Chen*

Shanghai Institute of Organic
Chemistry, P. R. of China
Hangzhou Institute for
Advanced Study, P. R. of China

Investigations on the 1,2-Hydrogen Atom Transfer Reactivity of Alkoxy Radicals under Visible-Light-Induced Reaction Conditions

Cluster

356



a series of mechanistic investigations to
validate the 1,2-HAT of alkoxy radicals

Synlett

Synlett 2021, 32, 362–368
DOI: 10.1055/s-0040-1706646

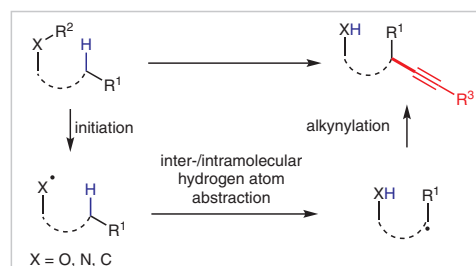
Z.-H. Zhang
H. Wei
Z.-L. Li*
X.-Y. Liu*

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

Recent Advances in Radical-Involved Alkynylation of Unactivated C(sp³)-H Bonds by Hydrogen Atom Abstraction

Cluster

362



Synlett

Synlett 2021, 32, 369–372
DOI: 10.1055/a-1296-8652

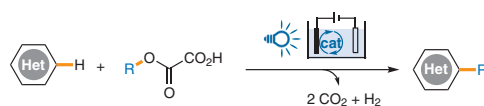
F. Xu
X.-L. Lai
H.-C. Xu*

Xiamen University, P. R. of China

C-H Alkylation of Heteroarenes with Alkyl Oxalates by Molecular Photoelectrocatalysis

Cluster

369



- No metal catalyst
- No external oxidant
- R = 2° and 3° alkyl
- 20 examples
- 18–96% yields

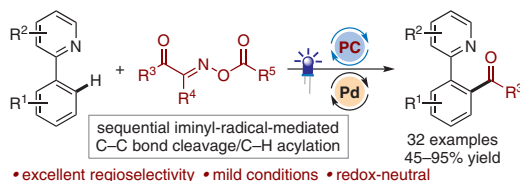
Synlett

Synlett 2021, 32, 373–377
DOI: 10.1055/s-0040-1707252B.-Q. He
Y. Gao
P.-Z. Wang
H. Wu
H.-B. Zhou
X.-P. Liu*
J.-R. Chen*Central China Normal University,
P. R. of China

Dual Photoredox/Palladium-Catalyzed C–H Acylation of 2-Arylpyridines with Oxime Esters

Cluster

373



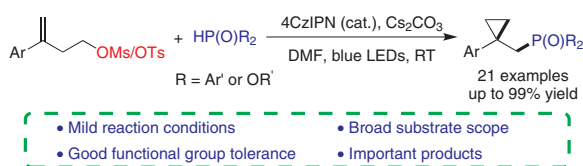
Synlett

Synlett 2021, 32, 378–382
DOI: 10.1055/s-0040-1706681Y.-M. Jiang
J. Liu
Q. Fu*
Y.-M. Yu*
D.-G. Yu*Xinjiang University, P. R. of China
Sichuan University, P. R. of China
Southwest Medical University,
P. R. of China

Visible-Light-Driven Phosphonoalkylation of Alkenes

Cluster

378



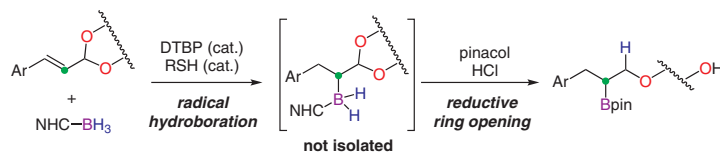
Synlett

Synlett 2021, 32, 383–386
DOI: 10.1055/s-0040-1707142B.-Y. Zhuang
J.-K. Jin
F.-L. Zhang*
Y.-F. Wang*University of Science and Tech-
nology of China, P. R. of China

Radical-Hydroboration-Involved One-Pot Synthesis of Boron-Handled Glycol Derivatives

Cluster

383



Synlett

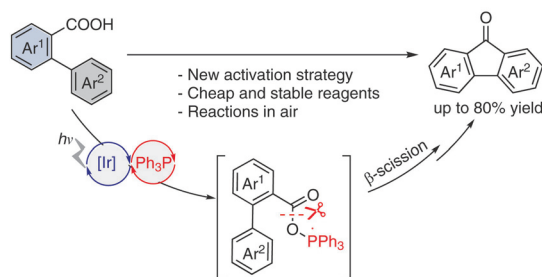
Synlett 2021, 32, 387–390
DOI: 10.1055/s-0040-1707246Y. Li
W. Xu
C. Zhu*
J. Xie*

Nanjing University, P. R. of China

Direct Deoxygenative Intramolecular Acylation of Biarylcarboxylic Acids

Cluster

387



Synlett

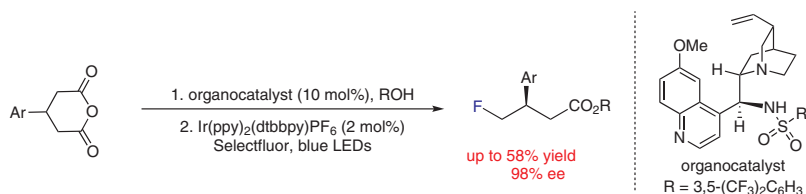
Synlett 2021, 32, 391–394
DOI: 10.1055/s-0040-1707295J.-J. Zhao
S. Yu*

Nanjing University, P. R. of China

Synthesis of Chiral Fluorides by Sequential Organocatalyzed Desymmetrization of Glutaric Anhydrides and Photoredox-Catalyzed Decarboxylic Fluorination

Cluster

391



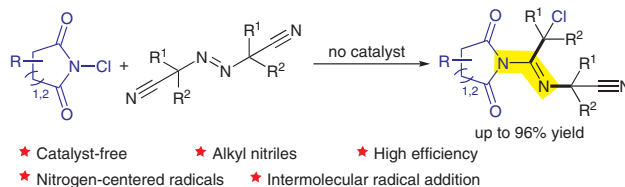
Synlett

Synlett 2021, 32, 395–400
DOI: 10.1055/a-1344-6175M. Su
N. Zhu
M.-F. Chiou
H. Bao*Fujian Institute of Research on
the Structure of Matter, Chinese
Academy of Sciences, P. R. of
China
University of Chinese Academy
of Sciences, P. R. of China

Synthesis of Amidine Derivatives by Intermolecular Radical Addition to Nitrile Groups of AIBN Derivatives

Cluster

395



Synlett

Synlett 2021, 32, 401–405
DOI: 10.1055/s-0040-1705968

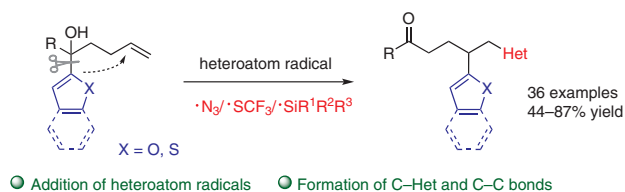
H. Zhang
M. Ji
Y. Wei
H. Chen
X. Wu
C. Zhu*

Soochow University, P. R. of
China
Shanghai Institute of Organic
Chemistry, P. R. of China

Radical-Mediated Hetaryl Functionalization of Nonactivated Alkenes through Distal *ipso*-Migration of O- or S-Hetaryls

Cluster

401



Synlett

Synlett 2021, 32, 406–410
DOI: 10.1055/a-1319-6237

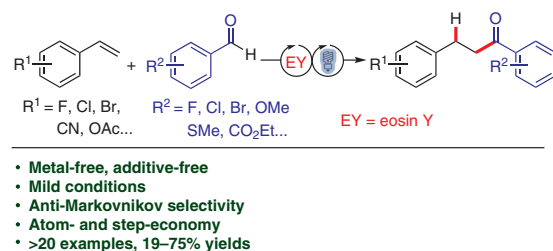
H. Liu
F. Xue
M. Wang
X. Tang*
J. Wu*

National University of Singapore,
Republic of Singapore

Neutral-Eosin Y-Catalyzed Regioselective Hydroacylation of Aryl Alkenes under Visible-Light Irradiation

Cluster

406



Synlett

Synlett 2021, 32, 411–416
DOI: 10.1055/s-0040-1706600

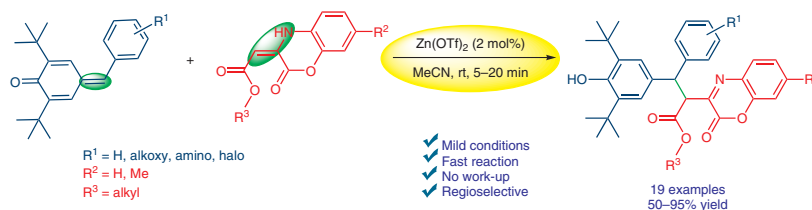
N. Dua
S. Ghosh
R. K. Peddinti*

Indian Institute of Technology
Roorkee, India

Zn(OTf)₂-Catalyzed 1,6-Conjugate Addition of Benzoxazinones to *p*-Quinone Methides: Access to 3,3-Diaryl-2-(2-oxo-2H-1,4-benzoxazin-3-yl)propanoic Acid Esters

Letter

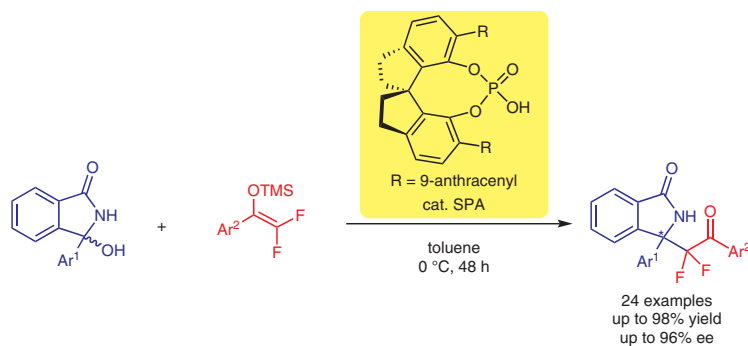
411



Synlett 2021, 32, 417–422
DOI: 10.1055/a-1274-2959

L. Wang
J. Zhong
X. Lin*

Zhejiang University, P. R. of
China



Synlett 2021, 32, 423–428
DOI: 10.1055/a-1303-5613

H. Nakakohara
Y. Hirano
K. Ohmori
H. Takikawa
K. Suzuki*

Tokyo Institute of Technology,
Japan

