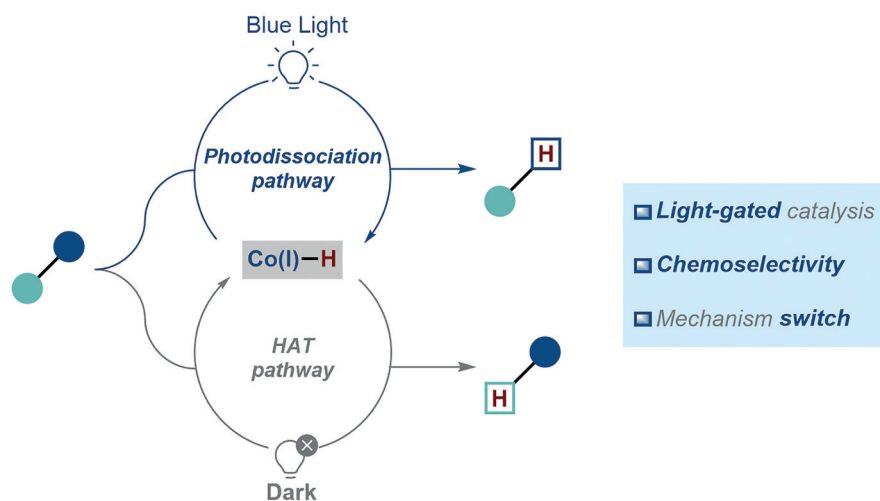


Synthesis

Reviews and Full Papers in Chemical Synthesis

May 15, 2024 • Vol. 56, 1505–1656



Discovery of Divergent, Light-Controlled Catalysis Triggered by Ligand Photodissociation from Cobalt Complexes

N. Vystavkin, M. Barday, C. J. Teskey

10

Synthesis

Synthesis 2024, 56, 1505–1540
DOI: 10.1055/a-2262-9575

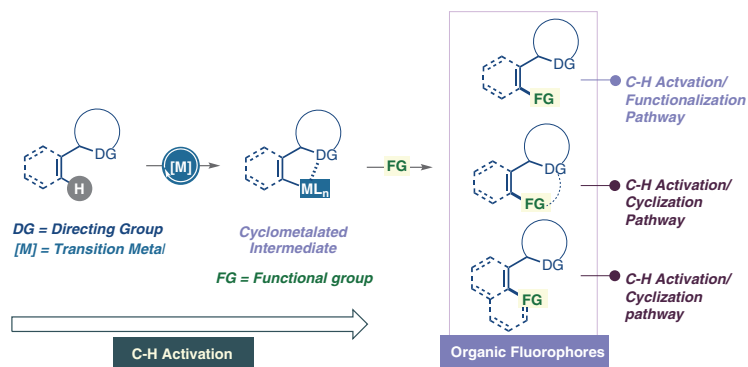
T. Chand
M. Kapur*

Indian Institute of Science Edu-
cation and Research Bhopal,
India

Transition-Metal-Catalyzed C–H Activation Reactions for the Creation and Modification of Organic Fluorophores

Review

1505



Synthesis

Synthesis 2024, 56, 1541–1548
DOI: 10.1055/a-2183-4332

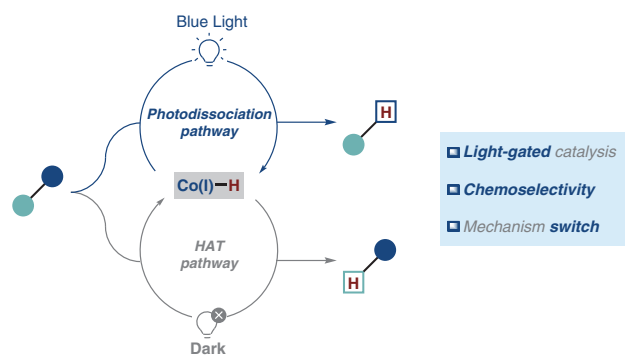
N. Vystavkin
M. Barday
C. J. Teskey*

RWTH Aachen University,
Germany

Discovery of Divergent, Light-Controlled Catalysis Triggered by Ligand Photodissociation from Cobalt Complexes

Short Review

1541



Synthesis

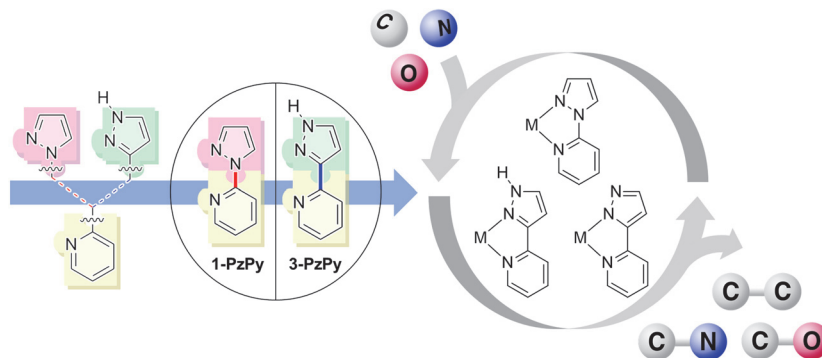
Synthesis 2024, 56, 1549–1562
DOI: 10.1055/s-0043-1763620

E. Kang
J. M. Joo*
Kyung Hee University,
Republic of Korea

Pyrazolopyridine Ligands in Transition-Metal-Catalyzed C–C and C–Heteroatom Bond-Forming Reactions

Short Review

1549



Synthesis

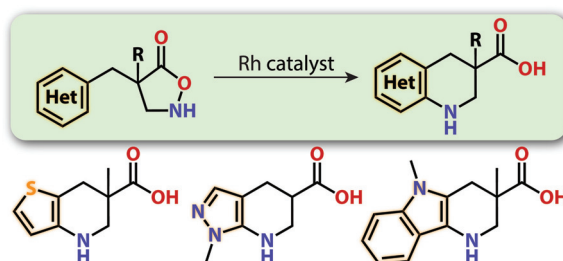
Synthesis 2024, 56, 1563–1575
DOI: 10.1055/a-2282-7450

R. Manoharan
Y. Asada
H. Noda*
M. Shibasaki*
Institute of Microbial Chemistry
(BIKAKEN), Tokyo, Japan

Synthesis of Heteroaromatic-Fused Cyclic β -Amino Acids by Rhodium-Catalyzed Electrophilic Amination

Paper

1563



Synthesis

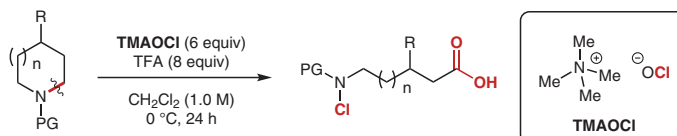
Synthesis 2024, 56, 1576–1584
DOI: 10.1055/a-2062-8680

Y. Kaieda
K. Yamamoto
H. Toguchi
N. Hanazawa
M. Kuriyama
O. Onomura*
Nagasaki University, Japan

Oxidative C–N Bond Cleavage of Cyclic Amines with Ammonium Hypochlorite

Paper

1576



• metal-free oxidation • high selectivity • high yield • gram-scale

Synthesis

Synthesis 2024, 56, 1585–1592
DOI: 10.1055/s-0042-1751529

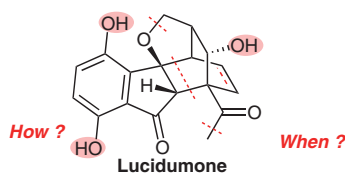
G. Huang
A. Laporte
L. Pagès
C. Kouklovsky
A. de la Torre*

Université Paris-Saclay, France

Total Synthesis of Lucidumone: Attempted Shortcuts, Dead Ends and Lessons Learnt

Paper

1585



Synthesis

Synthesis 2024, 56, 1593–1600
DOI: 10.1055/a-2242-6435

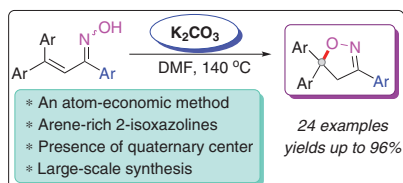
R. S. Jat
R. Kothapalli
M. Bhanuchandra*

Central University of Rajasthan,
India

 K_2CO_3 -Mediated Intramolecular Oxa-Michael Cyclization of α,β -Unsaturated Ketoximes: Synthesis of Densely Arene-Substituted 2-Isoxazolines Bearing a Quaternary Center

Paper

1593



Synthesis

Synthesis 2024, 56, 1601–1607
DOI: 10.1055/a-2256-9837

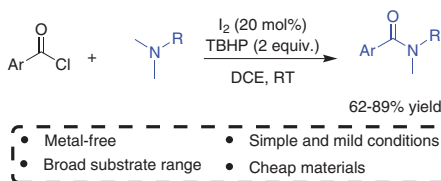
X. Ge
P. Lei
Q. Su
Y.-M. Pan
K. Ablajan*

Xinjiang University, P. R. of China

 I_2 -Catalyzed Oxidative Acylation of Tertiary Amines via C–N Bond Cleavage

Paper

1601



Synthesis

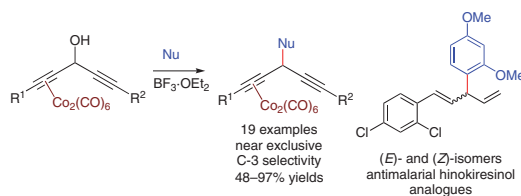
Synthesis 2024, 56, 1608–1618
DOI: 10.1055/a-2250-8050

M. Muresan
J. R. Green*
University of Windsor, Canada

Nicholas Reactions of Pentadiynyl–Co₂(CO)₆ Cations. Synthesis of Antimalarial Hinokiresinol Analogues

Paper

1608



Synthesis

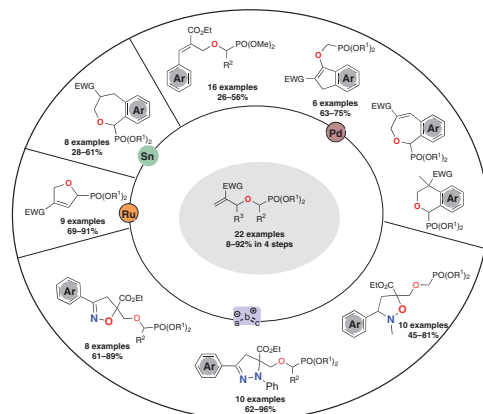
Synthesis 2024, 56, 1619–1647
DOI: 10.1055/s-0042-1751554

M. Jmai
V. Blot*
M. Mathé-Allainmat
M. L. Efrif
D. Dubreuil
H. M'rabet*
J. Lebreton
University of Tunis El Manar, Tunisia
Université de Nantes, France

Exploring the Reactivity of Substituted [(Allyloxy)methyl]phosphonates in Cycloaddition and Coupling Reactions

Paper

1619



Synthesis

Synthesis 2024, 56, 1648–1656
DOI: 10.1055/s-0042-1751559

S. Sahaji
P. Bag
A. K. Misra*
Bose Institute, India

Convenient Synthesis of Hexa- and Pentasaccharide Repeating Units Corresponding to the O-Polysaccharides of *Acinetobacter baumannii* O7 and *Acinetobacter baumannii* O10 Strains

Paper

1648

