

Synthesis

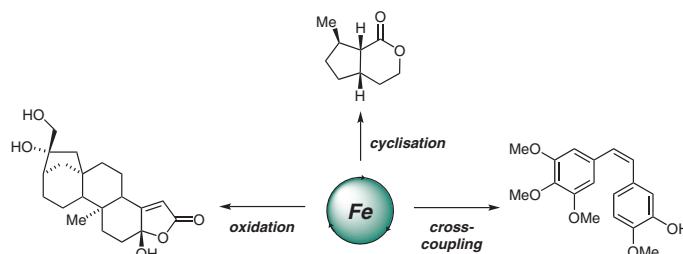
Iron Catalysis in Target Synthesis

Review

Synthesis **2020**, 52, 949–963
DOI: 10.1055/s-0039-1690813

P. DaBell
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University of Edinburgh, UK

949



Synthesis

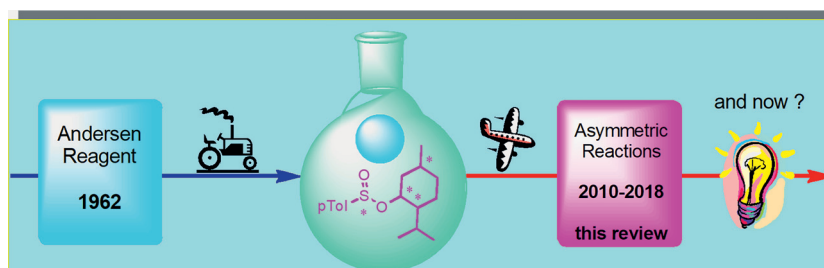
Recent Applications in the Use of Sulfoxides as Chiral Auxiliaries for the Asymmetric Synthesis of Natural and Biologically Active Products

Short Review

Synthesis **2020**, 52, 964–978
DOI: 10.1055/s-0039-1690803

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964



Synthesis

Synthesis **2020**, *52*, 979–992
DOI: 10.1055/s-0039-1690807

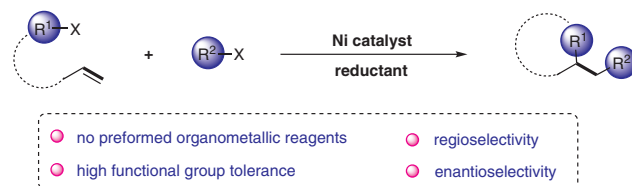
Y. Ping
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Ni-Catalyzed Reductive Difunctionalization of Alkenes

Short Review

979



Synthesis

Synthesis **2020**, *52*, 993–1006
DOI: 10.1055/s-0039-1690816

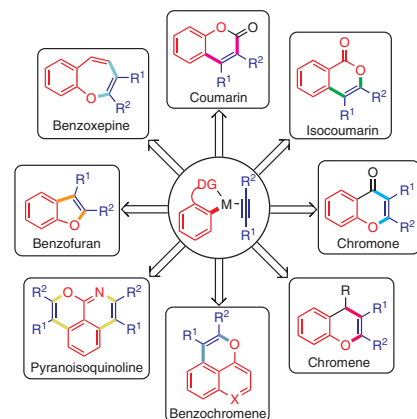
G. Kuang
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Directing-Group-Assisted Transition-Metal-Catalyzed Direct C–H Oxidative Annulation of Arenes with Alkynes for Facile Construction of Various Oxygen Heterocycles

Short Review

993



Synthesis

Synthesis **2020**, *52*, 1007–1014
DOI: 10.1055/s-0039-1690806

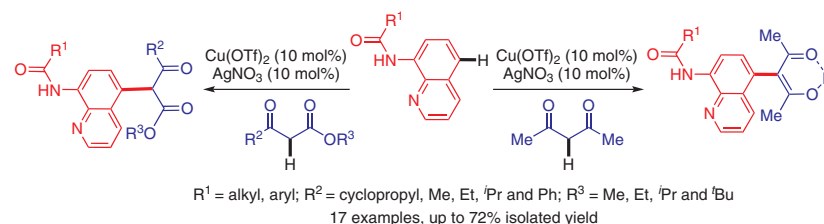
F. Zhan
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H. Zhao*

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Fujian Institute of Research on
the Structure of Matter,
P. R. of China

Copper/Silver Cocatalyzed Regioselective C5–H Functionalization of 8-Aminoquinoline Amides with 1,3-Dicarbonyl Compounds

Feature

1007



Synthesis

Synthesis 2020, 52, 1015–1024
DOI: 10.1055/s-0039-1691560

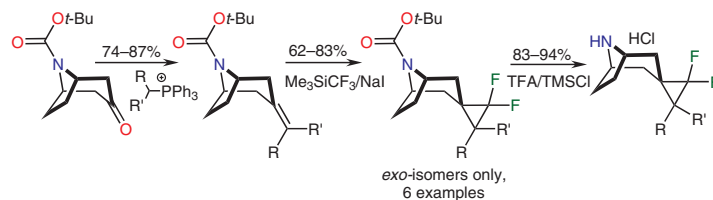
A. Gerasov
G. A. Dolgonos
A. Yu. Mandzhulo
A. Ryabitsky
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Selective Synthesis of *exo*-Spiro[2',2'-difluorocyclopropane-3',2'-tropanes]

Paper

1015



Synthesis

Synthesis 2020, 52, 1025–1034
DOI: 10.1055/s-0039-1690785

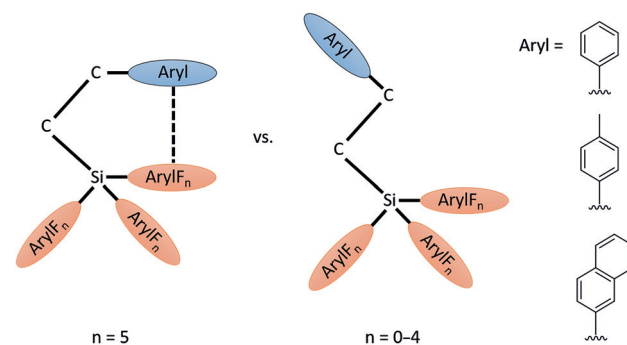
M. Linnemannstöns
B. Neumann
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Synthesis and Structural Diversity of Triaryl(phenylethyl)silanes

Paper

1025



Synthesis

Synthesis 2020, 52, 1035–1046
DOI: 10.1055/s-0039-1690799

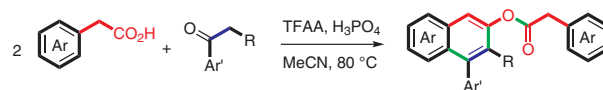
M.-Y. Chang*
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Kaohsiung Medical University
Hospital, Taiwan

One-Pot Access to 4-Aryl-2-arylacetoxy-naphthalenes via Benz-annulation of Oxygenated Arylacetic Acids and Alkyl Aryl Ketones

Paper

1035



easy-operation

51–94% yields

>31 examples

Synthesis

Synthesis 2020, 52, 1047–1059
DOI: 10.1055/s-0039-1690751

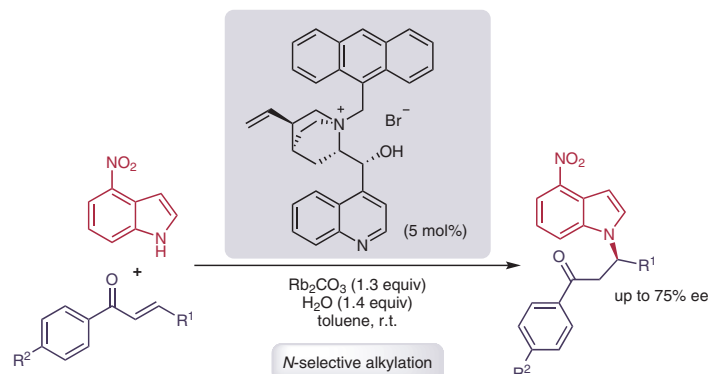
D. Trubitsõn
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Enantioselective *N*-Alkylation of Nitroindoles under Phase-Transfer Catalysis

Paper

1047



Synthesis

Synthesis 2020, 52, 1060–1066
DOI: 10.1055/s-0039-1690055

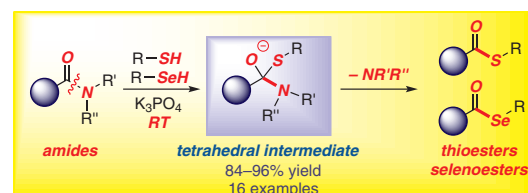
Md. M. Rahman
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Thioesterification and Selenoesterification of Amides via Selective *N*–C Cleavage at Room Temperature: *N*–C(O) to *S*/Se–C(O) Interconversion

Paper

1060



Synthesis

Synthesis 2020, 52, 1067–1075
DOI: 10.1055/s-0039-1691541

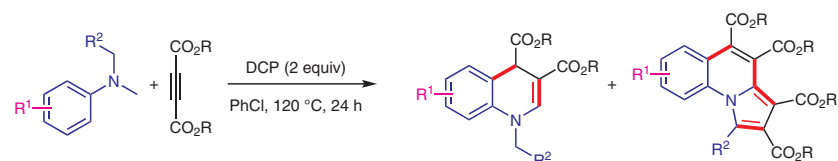
Z. Luo*
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Catalyst-Free Synthesis of 1,4-Dihydroquinolines and Pyrrolo-[1,2-*a*]quinolines via Intermolecular [4+2]/[3+2] Radical Cyclization of *N*-Methylanilines with Alkynoates

Paper

1067



R = Me, Et, *t*-Bu
R¹ = H, Me, OMe, OEt, F, Br, CF₃
R² = H, Me, *n*-Pr, *n*-pentyl, cyclopentyl

- catalyst-free
- [4+2]/[3+2] radical cyclization
- one-pot process
- moderate to high overall yields

Synthesis

Synthesis 2020, 52, 1076–1086
DOI: 10.1055/s-0039-1690774

D. A. dos Santos

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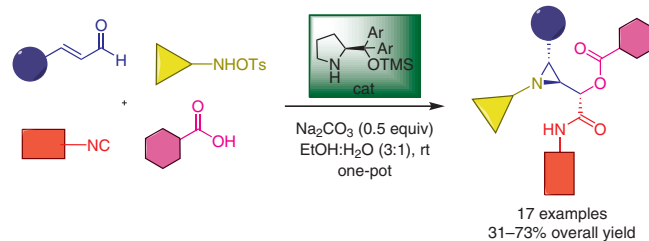
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Green One-Pot Asymmetric Synthesis of Peptidomimetics via Sequential Organocatalyzed Aziridination and Passerini Multicomponent Reaction

Paper

1076



Synthesis

Synthesis 2020, 52, 1087–1095
DOI: 10.1055/s-0039-1691540

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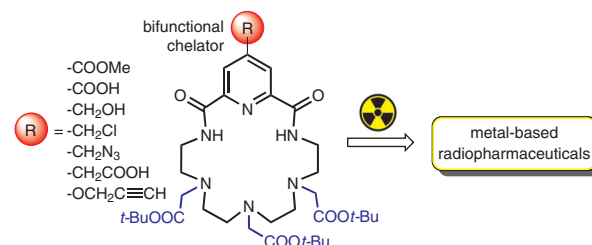
O. A. Fedorova

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Russian Academy of Sciences,
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Synthetic Approaches to the Bifunctional Chelators for Radionuclides Based On Pyridine-Containing Azacrown Compounds

Paper

1087



Synthesis

Synthesis 2020, 52, 1096–1102
DOI: 10.1055/s-0039-1690788

T. Senoo

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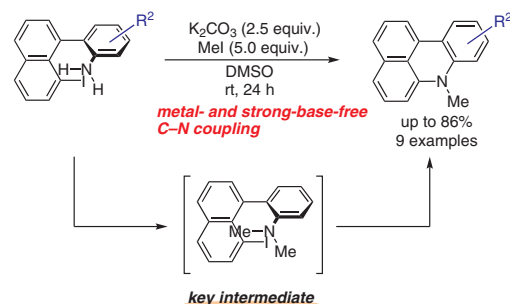
K. Mori*

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Facile Synthesis of π -Conjugated Heteroaromatic Compounds via Weak-Base-Promoted Transition-Metal-Free C–N Coupling

Paper

1096



Synthesis

Synthesis 2020, 52, 1103–1112
DOI: 10.1055/s-0039-1690052

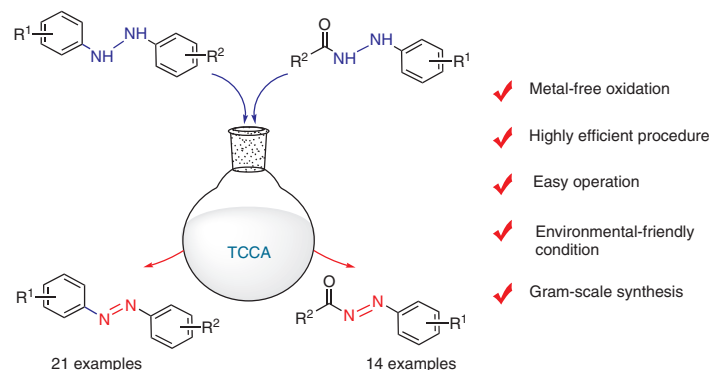
Y. Su*
X. Liu
J. Yu
G. Cao
R. Zhang
Y. Zhao
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Trichloroisocyanuric Acid Mediated Oxidative Dehydrogenation of Hydrazines: A Practical Chemical Oxidation To Access Azo Compounds

Paper

1103



Synthesis

Synthesis 2020, 52, 1113–1121
DOI: 10.1055/s-0039-1691575

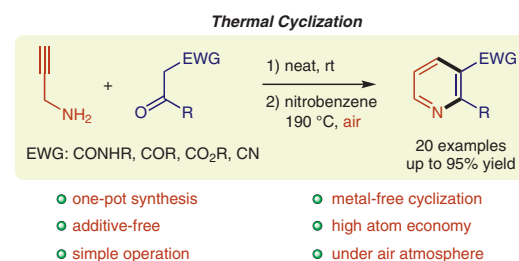
Y. Chikayuki
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S. Sasaki
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Transition-Metal-Free Synthesis of Pyridine Derivatives by Thermal Cyclization of *N*-Propargyl Enamines

Paper

1113



Synthesis

Synthesis 2020, 52, 1122–1130
DOI: 10.1055/s-0039-1691642

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Preparation of 2-Arylquinolines from 2-Arylethyl Bromides and Aromatic Nitriles with Magnesium and *N*-Iodosuccinimide

Paper

1122



Synthesis

Synthesis **2020**, *52*, 1131–1139
DOI: 10.1055/s-0039-1691643

Z. Han

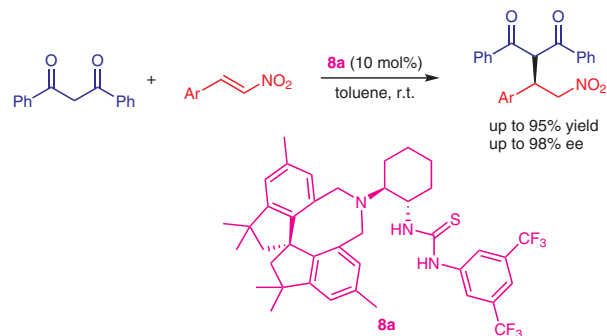
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Synthesis of Chiral Tertiary Amine–Thioureas Based on Spirobiindane and Application in Catalytic Asymmetric Michael Addition Reaction

Paper

1131



Synthesis

Synthesis **2020**, *52*, 1140–1146
DOI: 10.1055/s-0039-1690795

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Solvent-Free and Liquid-Phase Iodination of Thiophene Derivatives with Potassium Dichloriodate Monohydrate

Paper

1140

