Recent Developments in Direct C–H Functionalization of Quinoxalin-2(1H)-ones via Radical Addition Processes

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Migratory Insertion Strategies for Dearomatization

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New Synthesis of a Dibenzoperylene Motif Featuring a Doubly Boron–Nitrogen-Doped Bay Region

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2-(3-Cyanopropylmethylyl)silyl)ethyl as a Polar Sulfur Protecting Group

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Thermally Induced Intramolecular Benzannulation of Diazoacetoacetate Enones Tethered with Unactivated Alkynes: Synthesis of Substituted 6H-Benzo[c]chromenes

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Efficient Synthesis of Diverse 5-Thio- or 5-Selenotriazoles: One-Pot Multicomponent Reaction from Elemental Sulfur or Selenium

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Diastereoselective [2,3]-Sigmatropic Rearrangement of N-Allyl Ammonium Ylides

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Asymmetric Organocatalytic Michael Addition–Cyclisation Cascade of Cyclopentane-1,2-dione with Alkylidene Malononitriles

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Acid-Catalyzed Condensation of o-Phenylenediammines and o-Aminophenols with o-Oxodithioesters: A Divergent and Regio-selective Synthesis of 2-Methylthio-3-aryl/Heteroarylquinoxalines and 2-Acylbenzoxazoles

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Palladium-Catalyzed One-Pot Stereospecific Synthesis of 2-Deoxy Aryl C-Glycosides from Glycals and Anilines in the Presence of tert-Butyl Nitrite

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Alkene Ozonolysis in the Presence of Diaz0 Functionality: Accessing an Intermediate for Squalestatin Synthesis

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Pd/PTABS: An Efficient Catalytic System for the Aminocarbonylation of a Sugar-Protected Nucleoside

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Convenient Synthesis of 2-(2,2-Difluoroethoxy)-6-(trifluoromethyl)benzenesulfonyl Chloride, A Key Building Block of Penoxsulam

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Convergent First Total Synthesis of Melovinone: A Densely Substituted 3-Methoxy-4-quinolone Isolated from *Melochia tomentosa* L.

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Metal-Free Hydroamination of Alkynes: A Mild and Concise Synthesis of Thiazolo[3,2-α]indoles and their Cytotoxic Activity

Ruthenium-Catalyzed [2+2+2] Bis-Homo-Diels–Alder Cycloadditions of 1,5-Cyclooctadiene with Alkynyl Phosphonates

Straightforward and Expeditious One-Pot Tandem Synthesis of 3,5-Diaryl-1,2,4-Selenadiazoles from Aryl Nitriles
Practical Application of the Aqueous 'Sulfonyl-Azide-Free' (SAFE) Diazo Transfer Protocol to Less α-C–H Acidic Ketones and Esters

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\[ \text{R}^1 \text{R}^2 \overset{\text{O}}{\text{N}_2} \]

1) t-BuOK, HCO₂Et
THF, r.t., 18 h
2) add

For \( R^1 = H \):
3) KOH, MeCN
r.t., 2 h

30 examples
34–98%

Efficient Synthesis of Optically Active Neolignans Ligradolin D and E

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CSIR-National Chemical Laboratory, India

Academy of Scientific and Innovative Research (AcSIR), India

\[ \text{HO} (\text{R})(\text{R}) \text{OH} \]
\[ \text{OCH}_3 \]
\[ \text{O} \]
\[ \text{BnO} (\text{S})(\text{S}) \text{OBn} \]

ligradolin D
ligradolin E

4 steps
65%
4 steps
45%

Accessing Tricyclic Imines Comprising a 2-Azabicyclo[2.2.2]octane Scaffold by Intramolecular Hetero-Diels–Alder Reaction of 4-Alkenyl-Substituted N-Silyl-1,4-dihydropyridines

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K. T. Wanner*
Ludwig-Maximilians-Universität München, Germany

1) TIPSOTf
2) Mg

intramolecular cyclization

15 examples
21–61% yield
15 examples
54–89% yield