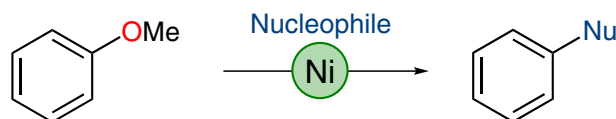


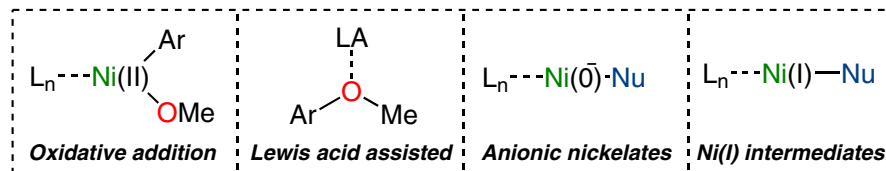
Synthesis

Reviews and Full Papers in Chemical Synthesis

July 1, 2022 • Vol. 54, 2927–3124



Mechanism?



Mechanisms of the Nickel-Catalysed Hydrogenolysis and Cross-Coupling of Aryl Ethers

A. M. Borys, E. Hevia

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Synthesis

Stereoselective Domino Reactions in the Synthesis of Spiro Compounds

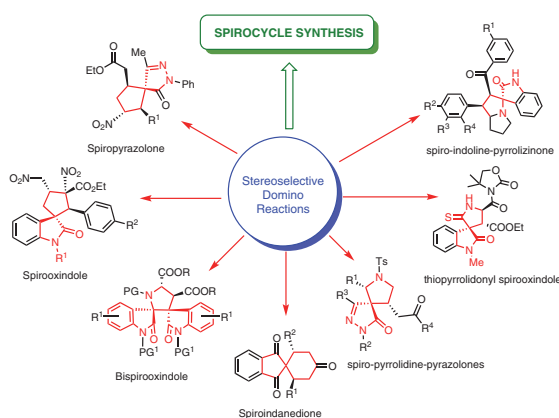
Review

Synthesis 2022, 54, 2927–2975
DOI: 10.1055/a-1771-0641

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2927



Synthesis

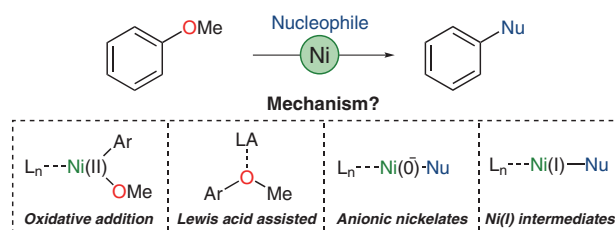
Mechanisms of the Nickel-Catalysed Hydrogenolysis and Cross-Coupling of Aryl Ethers

Short Review

Synthesis 2022, 54, 2976–2990
DOI: 10.1055/a-1806-4513

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2976



Synthesis

Synthesis **2022**, *54*, 2991–3004
DOI: 10.1055/s-0040-1719908

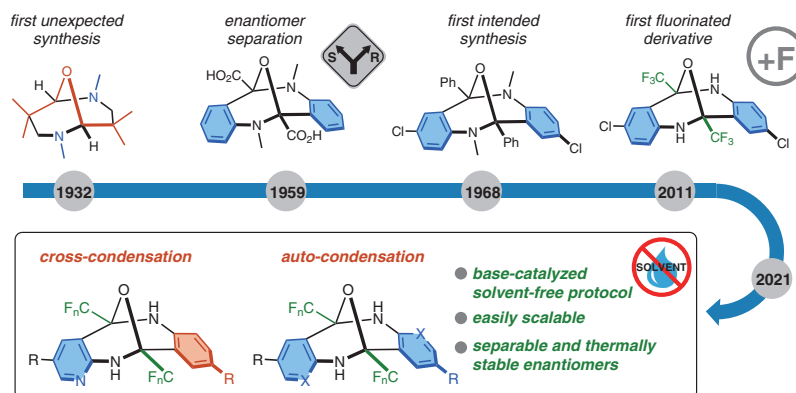
W. Depa
B. Bisek
M. Górecki
M. Michalak*

Polish Academy of Sciences,
Poland

Epoxydibenzo[*b,f*][1,5]diazocines: From a Hidden Structural Motif to an Efficient Solvent-Free Synthetic Protocol

Short Review

2991



Synthesis

Synthesis **2022**, *54*, 3005–3014
DOI: 10.1055/s-0041-1737911

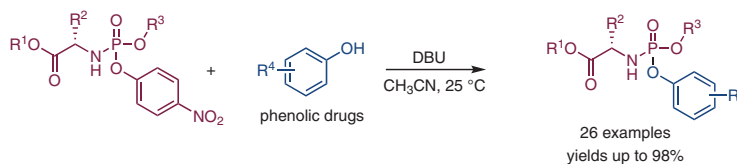
J. Yao
C. Huang
F. Wu*
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Synthesis of Phosphoramidate Prodrugs of Phenolic Natural Products and Drugs by Ester Exchange

Feature

3005



Synthesis

Synthesis **2022**, *54*, 3015–3024
DOI: 10.1055/a-1780-1935

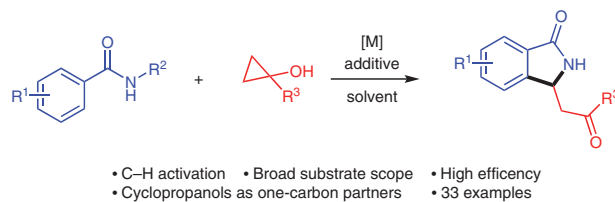
S. Xu
C. Luo
K. Yan
J. Li
R. Lai
L. Hai
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Y. Wu*

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Iridium-Catalyzed Formal [4+1] Annulation of Benzamides and Cyclopropanols to Afford Isoindolin-1-one Derivatives via C–H Activation

Paper

3015



Synthesis

Synthesis 2022, 54, 3025–3046
DOI: 10.1055/s-0041-1737396

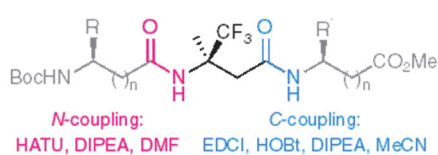
N. Saraiva Rosa
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Enantiopure β^3 -Trifluoromethyl- β^3 -homoalanine Derivatives: Coupling with Boc-Protected Amino Acids and Conformational Studies of Peptides in Solid State

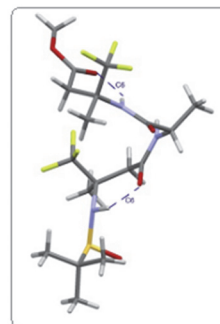
Paper

3025



(*R*) and (*S*)- β^3 -CF₃- β^3 -homoalanine :
gram-scale synthesis
N- and/or C-protected derivatives

48 original α/β - and hetero β -di-, tri- and tetrapeptides



Synthesis

Synthesis 2022, 54, 3047–3054
DOI: 10.1055/a-1811-8586

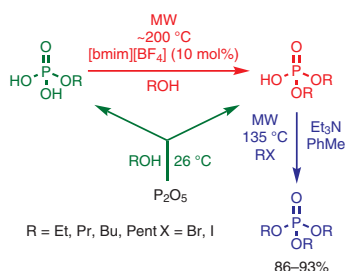
N. Harsági
N. Z. Kiss
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ogy and Economics, Hungary

P-Chloride-Free Synthesis of Phosphoric Esters: Microwave-Assisted Esterification of Alkyl- and Dialkyl Phosphoric Ester-Acids Obtained from Phosphorus Pentoxide

Paper

3047



Synthesis

Synthesis 2022, 54, 3055–3068
DOI: 10.1055/a-1747-5457

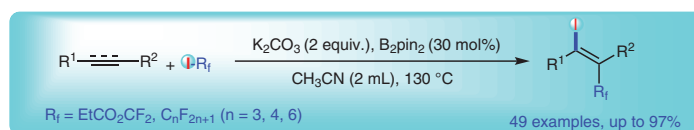
J. Wu
C. Wang
Z. Wang
H. Li
R. Liu
Y. Wang
P. Zhou
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Base/B₂pin₂-Mediated Iodofluoroalkylation of Alkynes and Alkenes

Paper

3055



- Catalyst-free and ligand-free
- Broad functional group compatibility
- High yield, high atom economy
- Gram-scale experiment (1.4 g, 80%) and further functionalization of products

Synthesis

Synthesis 2022, 54, 3069–3076
DOI: 10.1055/a-1780-1691

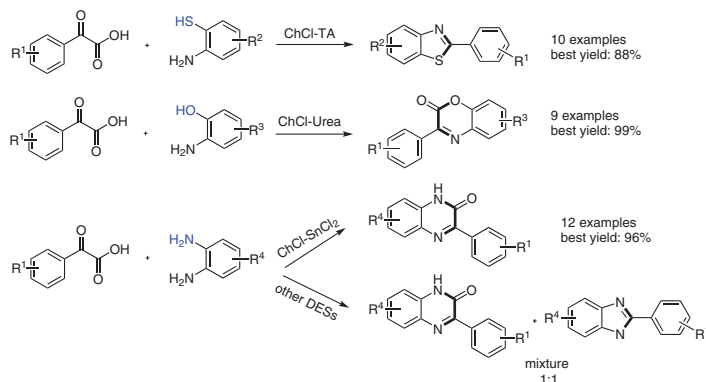
G. Jiang
G. Chen
J. Yang
H. Li
Z. Chen
Z. Xie*
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ogy, Nanchang, P. R. of China

Reactions of α -Phenylglyoxylic Acids with *ortho*-Functionalized Anilines in Deep Eutectic Solvents: Selective Syntheses of 3-Aryl-2*H*-benzo[*b*][1,4]oxazin-2-ones, 2-Arylbenzothiazoles, and 3-Arylquinoxalin-2(1*H*)-ones

Paper

3069



Synthesis

Synthesis 2022, 54, 3077–3084
DOI: 10.1055/s-0041-1737414

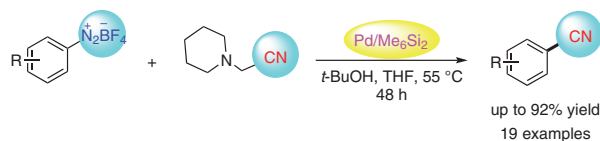
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Palladium-Catalyzed Cyanation of Arenediazonium Tetrafluoroborate Derivatives with 2-(Piperidin-1-yl)acetonitrile as the Cyano Source

Paper

3077



Synthesis

Synthesis 2022, 54, 3085–3092
DOI: 10.1055/s-0041-1737414

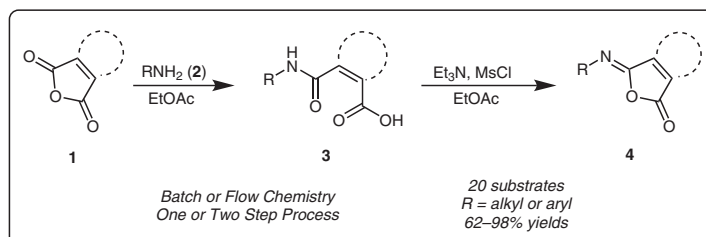
K. Alam
E. C. McFee
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Rapid and Facile Synthesis of Isomaleimides: Dehydration of Maleamic Acids using Methanesulfonyl Chloride

Paper

3085



Synthesis

Synthesis 2022, 54, 3093–3104
DOI: 10.1055/a-1773-4386

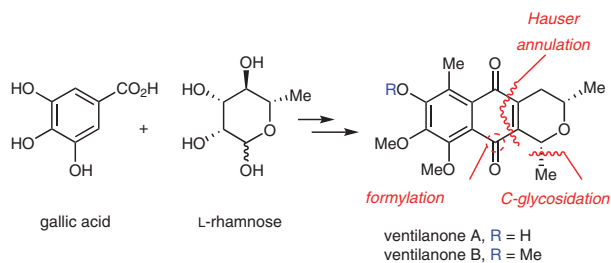
P. Deelertpaiboon
S. Kongsripapan
S. Krajangsri
N. M. Betterley
C. Kuhakarn
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Mahidol University, Thailand

Asymmetric Total Synthesis of Ventilanones A and B, Two Naturally Occurring Pyranonaphthoquinones from *Ventilago harmandiana*

Paper

3093



Synthesis

Synthesis 2022, 54, 3105–3113
DOI: 10.1055/a-1775-2910

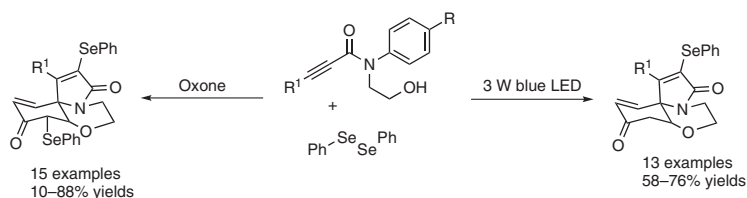
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Selenium Radical-Triggered Spiro-Tricyclization of *N*-Aryl-*N*-(2-hydroxyethyl)propiolamides

Paper

3105



Synthesis

Synthesis 2022, 54, 3114–3124
DOI: 10.1055/s-0041-1737395

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Facile One-Pot Preparation of 5-Substituted 4-Iodo-1-tosylpyrazoles from *N*-Propargyl-*N'*-tosylhydrazines through Iodocyclization

Paper

3114

