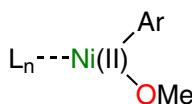
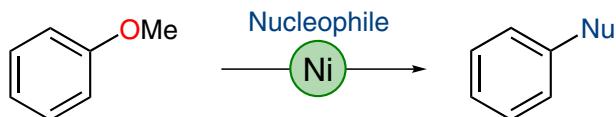


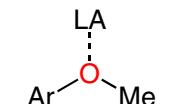
Synthesis

Reviews and Full Papers in Chemical Synthesis

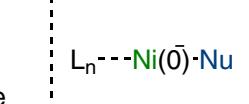
July 1, 2022 • Vol. 54, 2927–3124



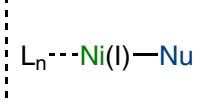
Oxidative addition



Lewis acid assisted



Anionic nickelates



Ni(I) intermediates

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

A. M. Borys, E. Hevia

13



Thieme

Synthesis

Stereoselective Domino Reactions in the Synthesis of Spiro Compounds

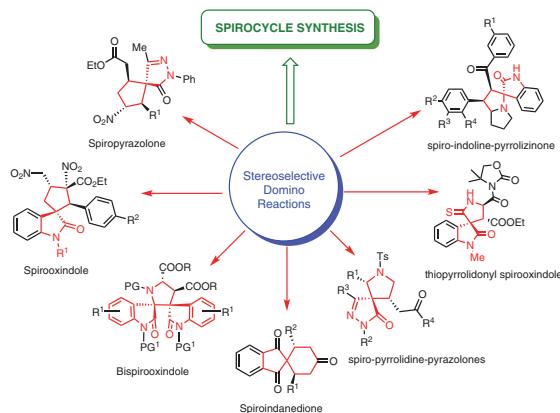
Review

2927

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

R. Westphal
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Synthesis

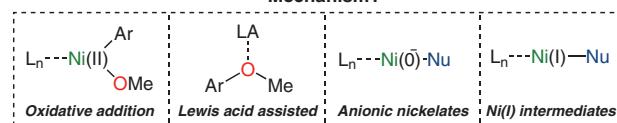
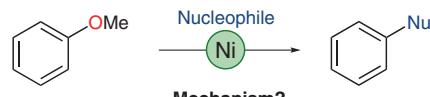
Mechanisms of the Nickel-Catalysed Hydrogenolysis and Cross-Coupling of Aryl Ethers

Short Review

2976

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

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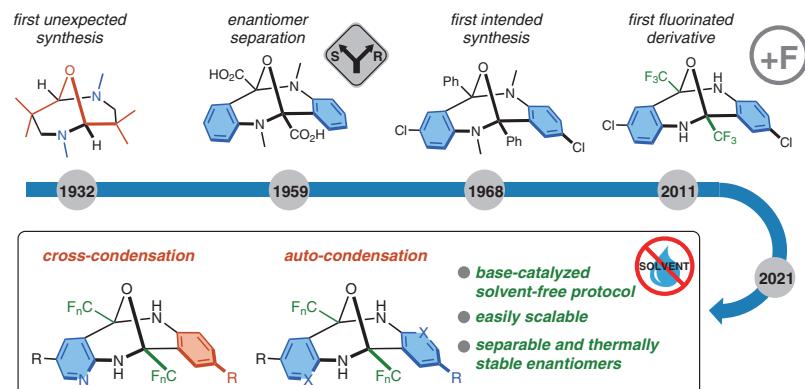
Synthesis

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

W. Depa
B. Bisek
M. Górecki
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Poland

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

2991

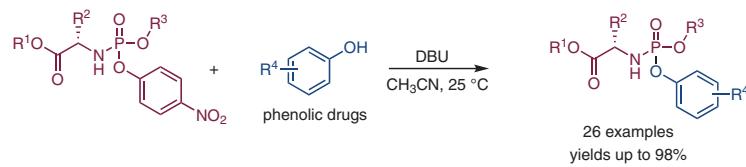
**Synthesis**

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

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C. Huang
F. Wu*
Y. Zhao
F. Ni*
Ningbo University, P. R. of China

Synthesis of Phosphoramidate Prodrugs of Phenolic Natural Products and Drugs by Ester Exchange**Feature**

3005

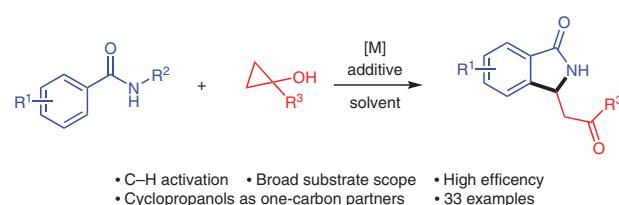
**Synthesis**

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

S. Xu
C. Luo
K. Yan
J. Li
R. Lai
L. Hai
M. Guan*
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

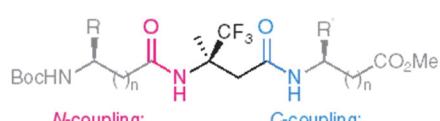
Enantiopure β^3 -Trifluoromethyl- β^3 -homoalanine Derivatives: Coupling with Boc-Protected Amino Acids and Conformational Studies of Peptides in Solid State

Paper

3025

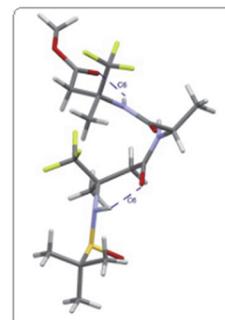
N. Saraiva Rosa
F. Grellepois*

Université de Reims Champagne Ardenne, France



(*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-1811-8568

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

Paper

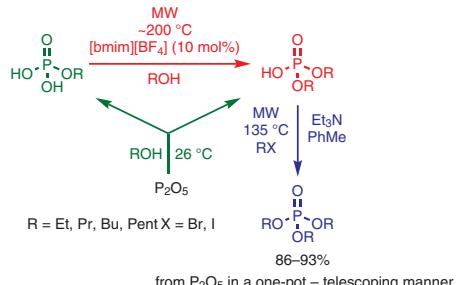
3047

N. Harsági

N. Z. Kiss

G. Keglevich*

Budapest University of Technology and Economics, Hungary

**Synthesis**

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

Base/B₂Pin₂-Mediated Iodofluoroalkylation of Alkenes and Alkynes

Paper

3055

J. Wu

C. Wang

Z. Wang

H. Li

R. Liu

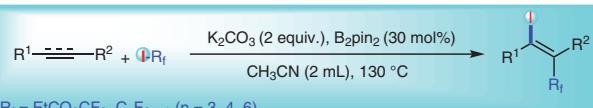
Y. Wang

P. Zhou

D. Li*

J. Yang*

Ningxia University, P. R. of China



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

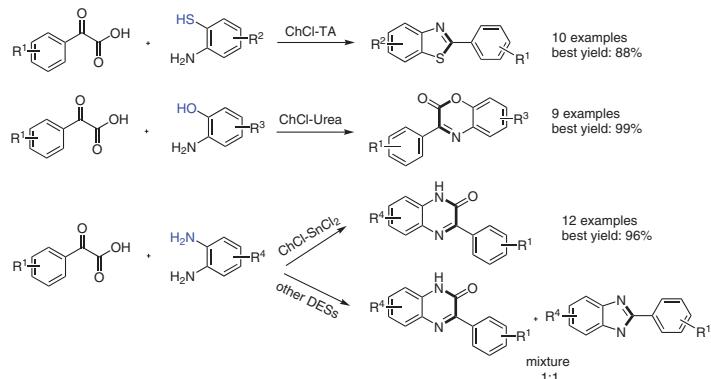
J. Yang
H. Li
Z. Chen
Z. Xie*
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Reactions of α -Phenylglyoxylic Acids with *ortho*-Functionalized Anilines in Deep Eutectic Solvents: Selective Syntheses of 3-Aryl-2*H*-benzo[*b*][1,4]oxazin-2-ones, 2-Arylbenzothiazoles, and 3-Arylquinoxalin-2(1*H*)-ones

Paper

3069

**Synthesis**

Synthesis 2022, 54, 3077–3084
DOI: 10.1055/a-1770-8592

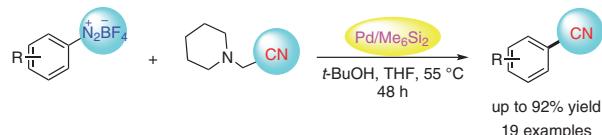
M. S. Ahmad*
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K. Meguellati*

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

Paper

3077

**Synthesis**

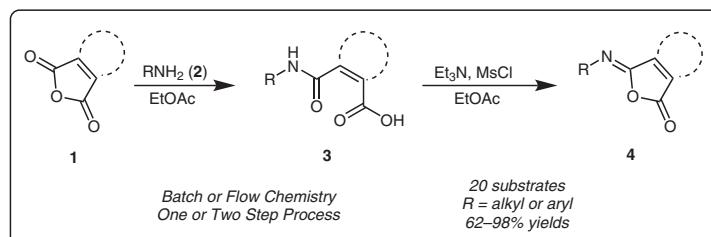
Synthesis 2022, 54, 3085–3092
DOI: 10.1055/s-0041-1737414

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

Paper

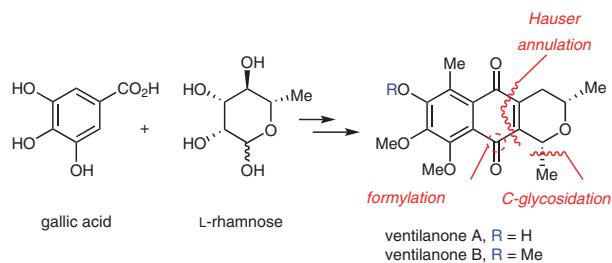
3085



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

P. Deelertpaiboon
S. Kongsrirapan
S. Krajangsri
N. M. Betterley
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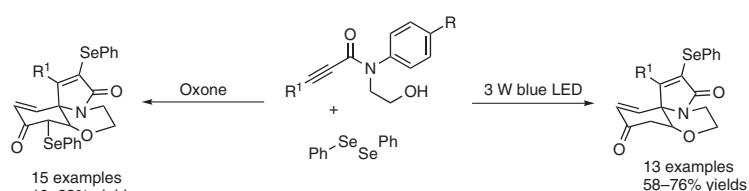
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Synthesis 2022, 54, 3105–3113
DOI: 10.1055/a-1775-2910

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

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