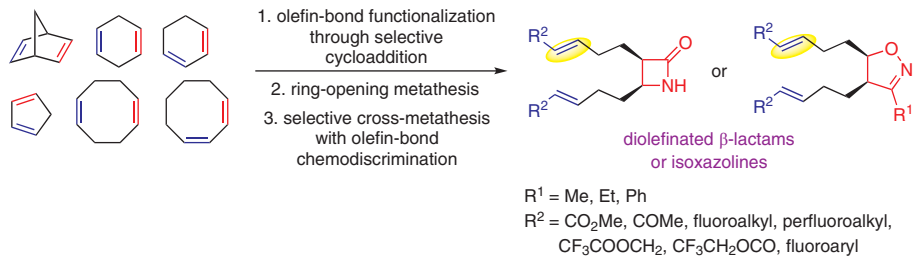
Synlett

Accounts and Rapid Communications in Chemical Synthesis

December 1, 2021 • Vol. 32, 1879–1980



Diversity-Oriented Synthesis of Highly Functionalized Alicycles across Dipolar Cycloaddition/Metathesis Reaction

Z. Benke, M. Nonn, A. M. Remete, S. Fustero, L. Kiss

19

Thieme

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Accounts and
Rapid Communications
in Chemical Synthesis

2021
Vol. 32, No. 19
December I

Synlett

Synlett **2021**, *32*, 1879–1890
DOI: 10.1055/a-1616-5643

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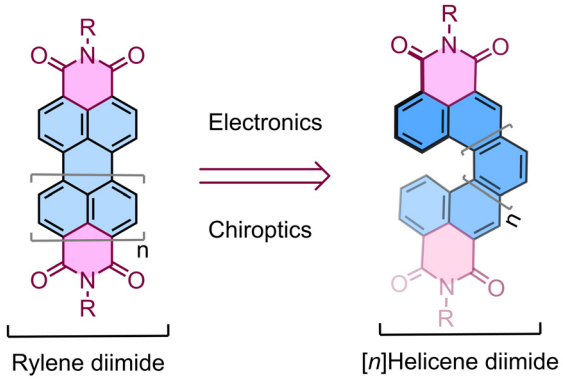
P. Ravat*
Universität Würzburg, Germany

Imide-Functionalized Helical PAHs: A Step towards New Chiral Functional Materials

Synpacts

1879



Synlett

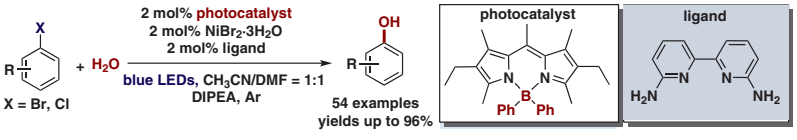
Synlett **2021**, *32*, 1891–1896
DOI: 10.1055/a-1608-5069

L. Yang
D. Xue*
Shaanxi Normal University, P. R. of China

Transition-Metal-Catalyzed Hydroxylation Reaction of Aryl Halide for the Synthesis of Phenols

Synpacts

1891



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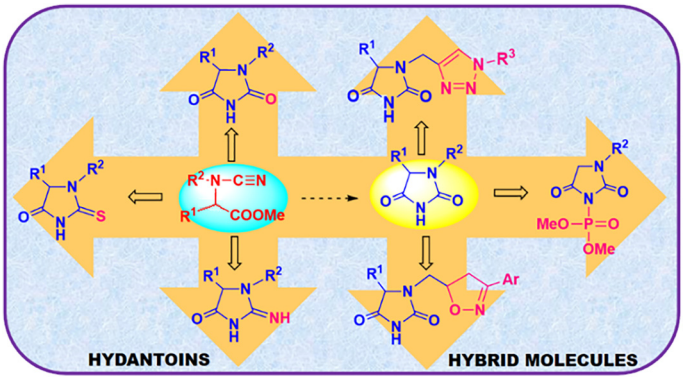
Synlett
Synlett **2021**, *32*, 1897–1910
DOI: 10.1055/a-1480-6474

V. Kumar*
Defence R & D Establishment, India

Designed Synthesis of Diversely Substituted Hydantoins and Hydantoin-Based Hybrid Molecules: A Personal Account

Account

1897



Synlett
Synlett **2021**, *32*, 1911–1933
DOI: 10.1055/s-0040-1706041

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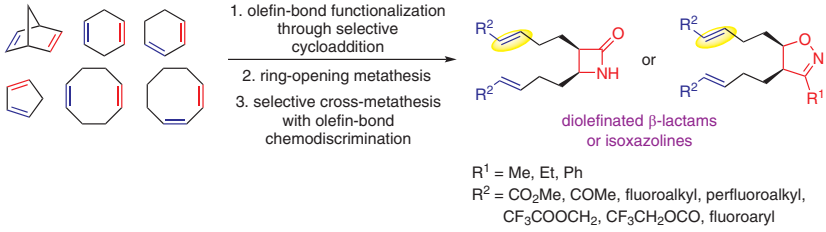
Diversity-Oriented Synthesis of Highly Functionalized Alicycles across Dipolar Cycloaddition/Metathesis Reaction

Account

1911



R^1 = Me, Et, Ph
R^2 = CO_2Me, COMe, fluoroalkyl, perfluoroalkyl, CF_3COOCH_2, CF_3CH_2OCO, fluoroaryl

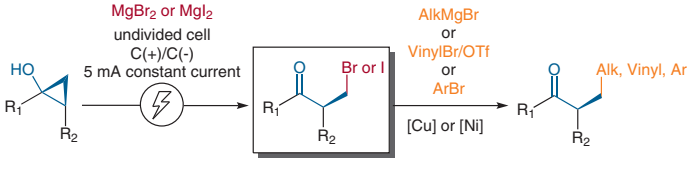
Synlett
Synlett **2021**, *32*, 1934–1938
DOI: 10.1055/a-1650-8519

M. V. Barysevich
Y. M. Aniskevich
A. L. Hurski*
National Academy of Sciences of Belarus, Belarus

Electrochemical Synthesis of 2-Bromoethyl and 2-Iodoethyl Ketones from Cyclopropanols

Letter

1934



R_1 = 1° and 2° alkyl, aryl
R_2 = H, 1° and 2° alkyl

- *17 examples, up to 98% yield*
- *Electrochemical generation of the bromination agent*
- *Mild condition suitable for the preparation of stereoisomerically pure 2-bromoethyl ketones*

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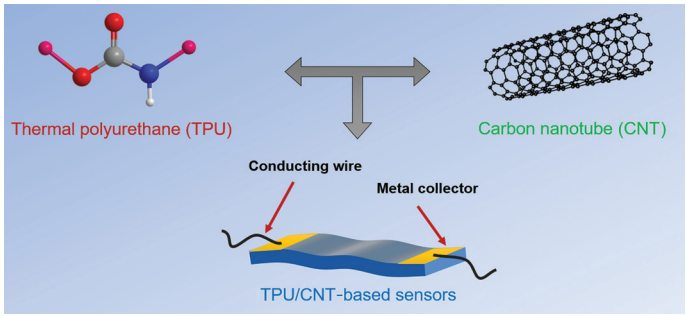
Synlett
Synlett **2021**, *32*, 1939–1942
DOI: 10.1055/a-1637-8678

C. Lu*
X. Chen*
Columbia University, USA

Flexible Resistance-Type Strain Sensors toward Monitoring Finger Movements

Letter
1939



Synlett
Synlett **2021**, *32*, 1943–1947
DOI: 10.1055/s-0040-1720885

R. Tomifuji
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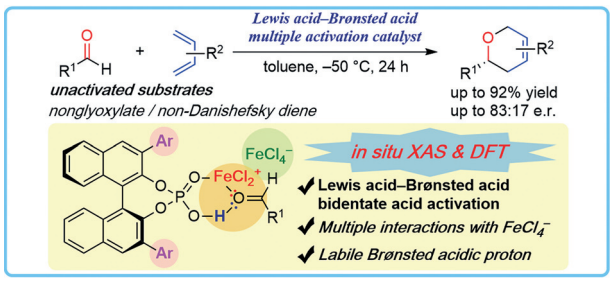
S. Teranishi
D. Kuroda
T. Kurahashi*
S. Matsubara*
Kyoto University, Japan

Multiple Activation Catalyst for Asymmetric [4+2] Cycloaddition of Aldehydes with Dienes

Letter
1943



Synlett
Synlett **2021**, *32*, 1948–1952
DOI: 10.1055/s-0037-1610785

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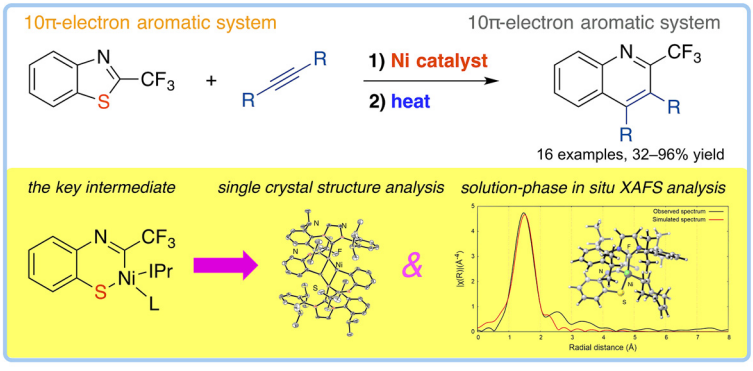
S. Matsubara*
Kyoto University, Japan

A New Synthetic Route to (Trifluoromethyl)quinolines: Nickel-Catalyzed Insertion of an Alkyne into an Aromatic C–S Bond by Formation of a Thianickelacycle and Thermal Desulfidation

Letter
1948



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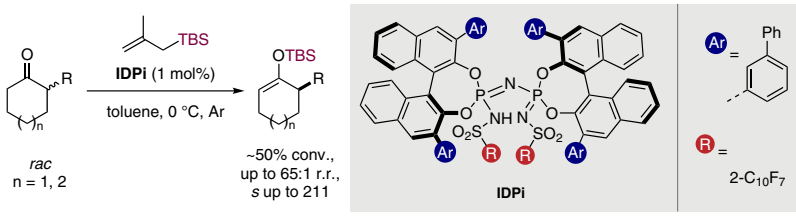
Synlett
Synlett **2021**, *32*, 1953–1956
DOI: 10.1055/a-1670-5829

The Silicon–Hydrogen Exchange Reaction: Catalytic Kinetic Resolution of 2-Substituted Cyclic Ketones

Letter
1953

H. Zhou
P. Zhang
B. List*
Max-Planck-Institut für Kohlenforschung, Germany

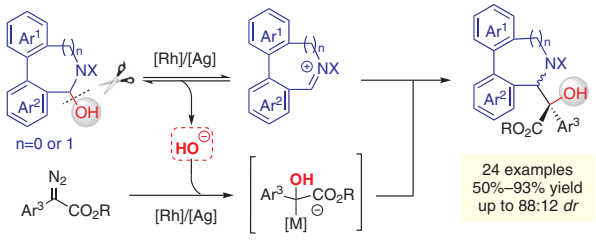


Synlett
Synlett **2021**, *32*, 1957–1962
DOI: 10.1055/a-1623-1490

A Rh(II)- or Ag(I)-Catalyzed Formal C–O Bond Insertion of Cyclic Hemiaminal with Aryl Diazoacetate

Letter
1957

C. Xu
X. Liu
X. Xie
L. Deng
X. Xu
A. S. Chan
W. Hu*
Sun Yat-Sen University, P. R. of China

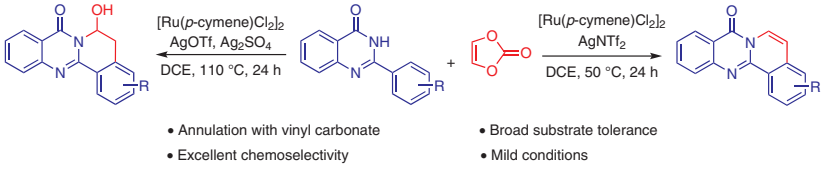


Synlett
Synlett **2021**, *32*, 1963–1968
DOI: 10.1055/a-1608-5381

Ru(II)-Catalyzed C–H Activation Reaction between 2-Phenylquinazolinone and Vinylene Carbonate

Letter
1963

Y. Chen
X. Huang
Y. Xu
J. Li
R. Lai
M. Guan*
Y. Wu*
Sichuan University, P. R. of China



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Synlett **2021**, *32*, 1969–1973
DOI: 10.1055/s-0040-1720888

L. O'Shaughnessy
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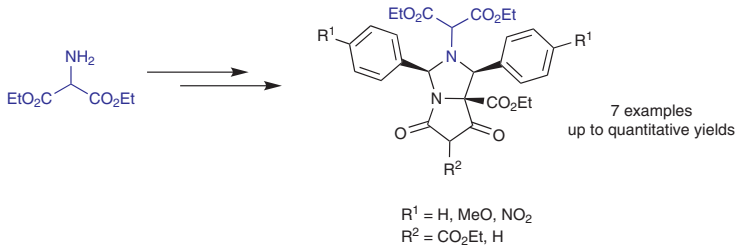
Oxford Suzhou Centre for Advanced Research, P. R. of China

Pyrroloimidazolediones Derived from Aminomalonates and Benzaldehydes

Letter

1969



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Synlett **2021**, *32*, 1974–1980
DOI: 10.1055/a-1642-0598

H. Zhang
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X.-Z. Fan
H.-H. Wu
X.-F. Bi
H.-W. Zhao*
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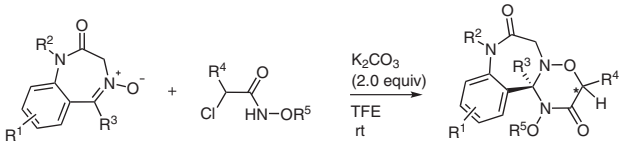
1,3-Dipolar [3+3] Cycloaddition of 1,4-Benzodiazepinone-Based Nitrones with α-Halohydroxamates for Diastereoselective Synthesis of Novel *d*-Edge Heterocycle-Fused 1,4-Benzodiazepinones

Letter

1974



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