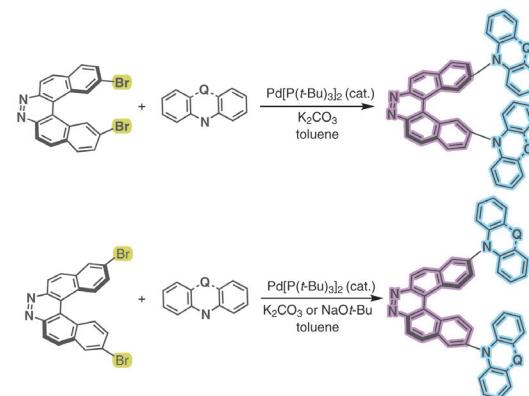


Synthesis

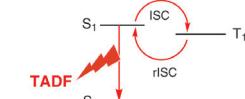
Reviews and Full Papers in Chemical Synthesis

May 4, 2021 • Vol. 53, 1531–1682



New Helical Luminophores featured with

- efficient photoluminescence
- mechanochromic luminescence (MCL)
- circularly polarized luminescence (CPL)
- thermally activated delayed fluorescence (TADF)



Peripherally Donor-Installed 7,8-Diaza[5]helicenes as a Platform for Helical Luminophores

Y. Ikari, T. Kaihara, S. Goto, M. Bovenkerk, D. C. Grenz, B. Esser, M. Ferreira, P. Stachelek, P. Data, T. Yoshida, T. Ikai, N. Tohnai, S. Minakata, Y. Takeda

9

 Thieme

Synthesis

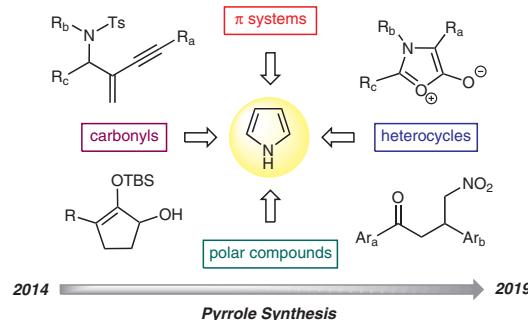
Recent Advancements in Pyrrole Synthesis

Review

1531

Synthesis 2021, 53, 1531–1555
DOI: 10.1055/s-0040-1706713

S. C. Philkhana
F. O. Badmus
I. C. Dos Reis
R. Kartika*
Louisiana State University, USA



Synthesis

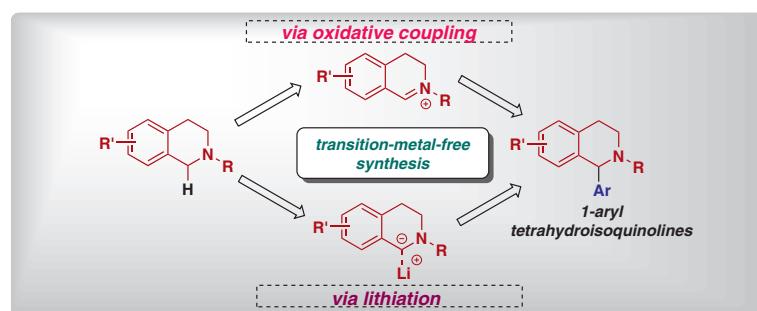
Transition-Metal-Free Strategies for the Synthesis of C-1 Aryl-Substituted Tetrahydroisoquinolines

Short Review

1556

Synthesis 2021, 53, 1556–1569
DOI: 10.1055/a-1344-2074

P. Singh*
A. Batra
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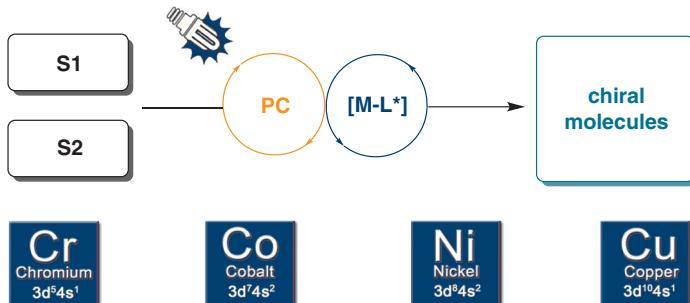


Synthesis**Visible-Light-Promoted Asymmetric Catalysis by Chiral Complexes of First-Row Transition Metals****Short Review**

1570

Synthesis 2021, 53, 1570–1583
DOI: 10.1055/a-1344-2473

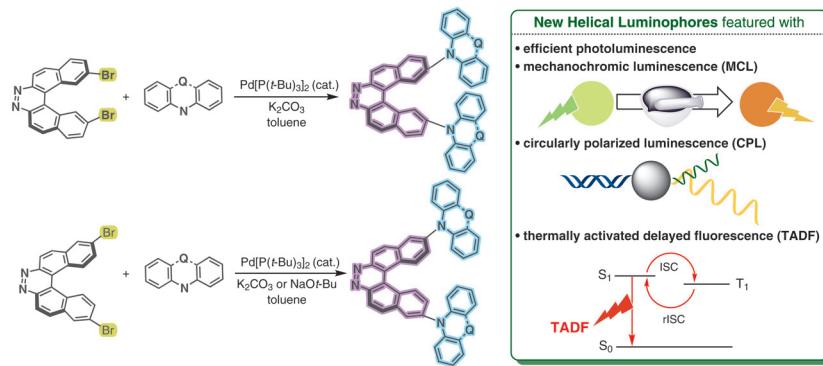
Y. Li
Z. Ye
J. Cai
L. Gong*
Xiamen University, P. R. of China

**Synthesis****Peripherally Donor-Installed 7,8-Diaza[5]helicenes as a Platform for Helical Luminophores****Feature**

1584

Synthesis 2021, 53, 1584–1596
DOI: 10.1055/a-1343-5810

Y. Ikari, T. Kaihara
S. Goto, M. Bovenkerk
D. C. Grenz, B. Esser*
M. Ferreira, P. Stachelek
P. Data*, T. Yoshida
T. Ikai, N. Tohnai
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Osaka University, Japan
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Silesian University of Technology, Poland
Center of Polymer and Carbon Materials, Poland

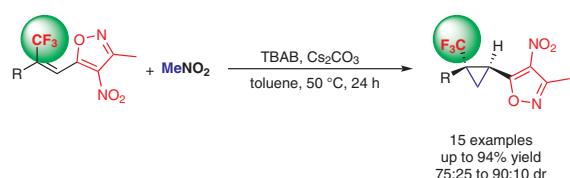
**Synthesis****An Efficient Substrate-Induced Method for the Synthesis of CF_3 -Substituted Cyclopropanes by Metal-Free Reaction of Trifluoromethyl Styrylisoxazoles with Nitromethane****Paper**

1597

Synthesis 2021, 53, 1597–1604
DOI: 10.1055/s-0040-1705976

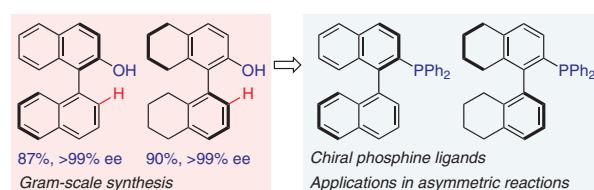
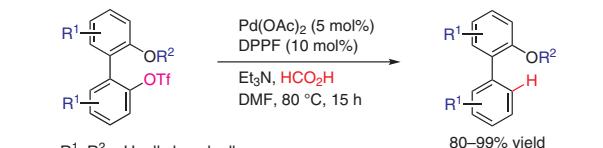
Q.-h. Zhao
G.-h. Yu
Y.-c. Meng
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H.-j. Li
F. Li*
H. Ma*

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P. R. of China



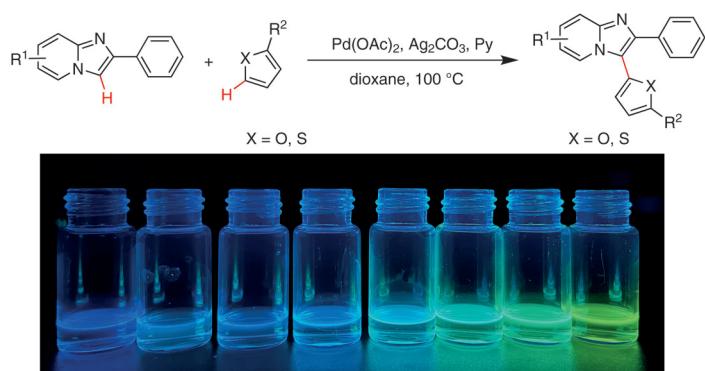
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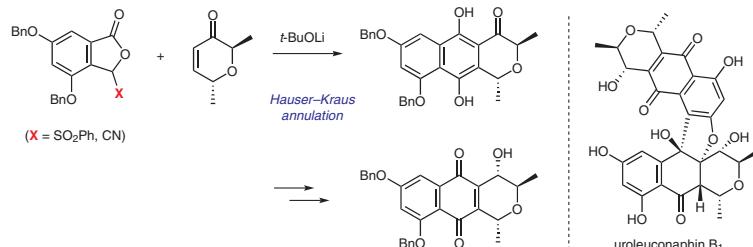
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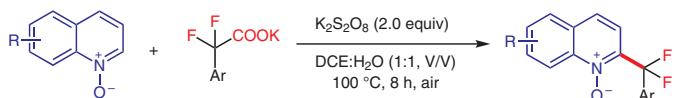
Y. Gao

L. Li

J. Liu*

L. Wang

M. Wang*

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P. R. of China

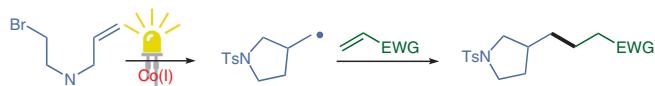
- rapid reaction
- simple operation
- 28 examples
- mild conditions
- wide substrate scope
- high yields up to 89%

S. Smoleń

A. Wincenciuk

O. Drapala

D. Gryko*

Institute of Organic Chemistry,
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Poland

- 22 examples
- up to 95% yield
- natural, non-toxic catalyst
- short reaction time

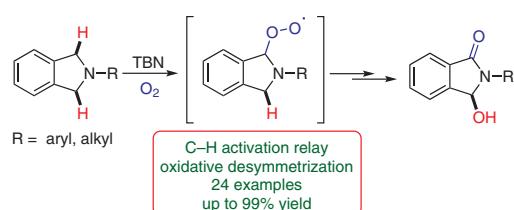
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