

**Synthesis**

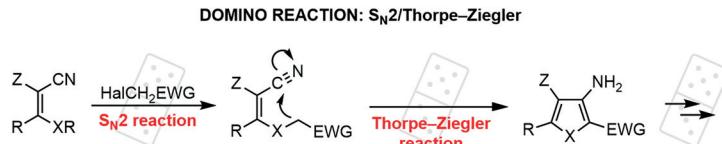
*Synthesis* 2022, 54, 217–245  
DOI: 10.1055/a-1526-8160

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**Synthesis of Biologically Active Heterocycles via a Domino Sequence Involving an S<sub>N</sub>2/Thorpe–Ziegler Reaction Step**

**Review**

**217**



**Synthesis**

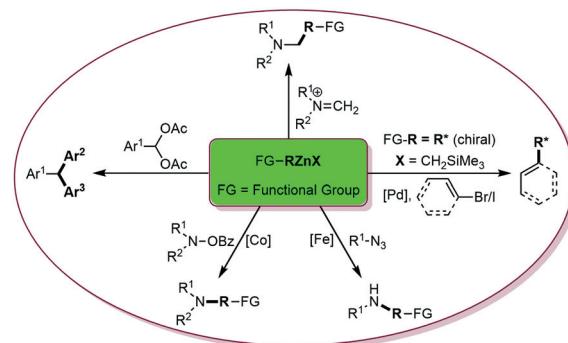
*Synthesis* 2022, 54, 246–254  
DOI: 10.1055/a-1589-0150

B. Wei\*  
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**Recent Advances in Cross-Couplings of Functionalized Organozinc Reagents**

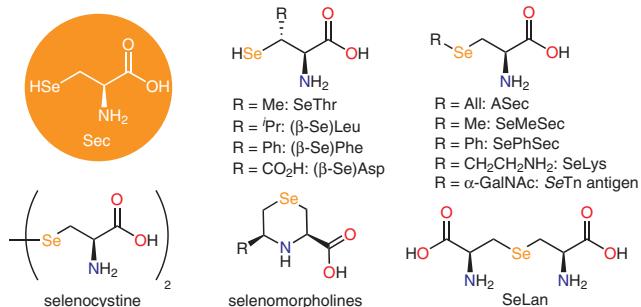
**Short Review**

**246**



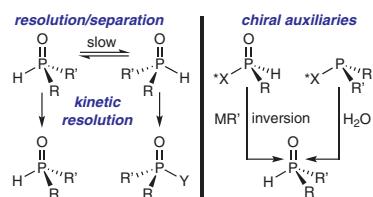
Synthesis 2022, 54, 255–270  
DOI: 10.1055/a-1588-9763

P. Oroz  
A. Avenoza  
J. H. Bustó  
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M. M. Zurbano  
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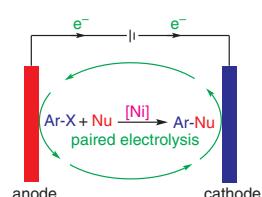
Synthesis 2022, 54, 271–280  
DOI: 10.1055/a-1582-0169

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Dartmouth College, USA



Synthesis 2022, 54, 281–294  
DOI: 10.1055/a-1581-0934

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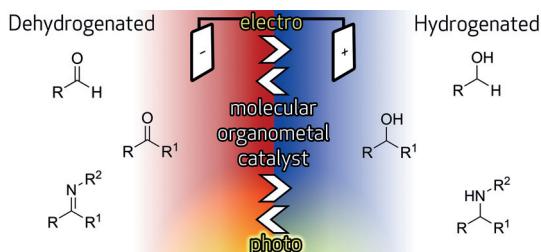
**Synthesis**

*Synthesis* 2022, 54, 295–314  
DOI: 10.1055/a-1645-3254

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K.-T. Kuessner  
I. Siewert\*  
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**Transition Metal Complex Catalyzed Photo- and Electrochemical (De)hydrogenations Involving C=O and C=N Bonds****Short Review**

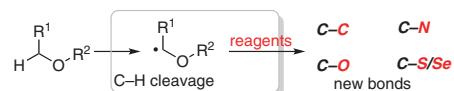
295

**Synthesis** **$\alpha$ -Csp<sup>3</sup>-H Bond Functionalization of Simple Ethers in Radical Reactions****Short Review**

315

*Synthesis* 2022, 54, 315–333  
DOI: 10.1055/a-1631-1606

Y. Feng  
X. Ye  
D. Huang\*  
S.-r. Guo\*  
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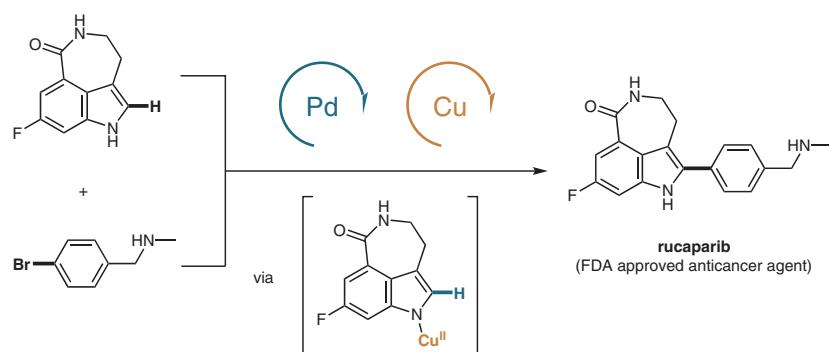
reagents = alkenes, alkynes, isocyanides, isocyanates, 5-nitrosoisoxazoles, arenes, aldehydes, ketones, imines, isoquinolines, enols, azides, NH, OH, SH, etc.

**Synthesis****Late-Stage C–H Arylation of Azepinoindole via Pd/Cu Catalysis: A Step Efficient and Convergent Synthesis of Rucaparib****Feature**

334

*Synthesis* 2022, 54, 334–340  
DOI: 10.1055/s-0037-1610784

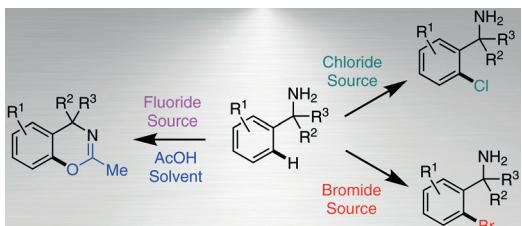
I. Beckers  
G. O'Rourke  
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KU Leuven, Belgium



Synthesis 2022, 54, 341–354  
DOI: 10.1055/a-1625-9095

P. Chand-Thakuri  
I. Alahakoon  
D. Liu  
M. Kapoor  
J. F. Kennedy  
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A. M. Rabon  
M. C. Young\*

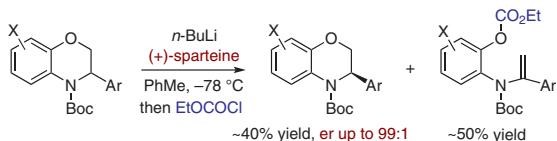
The University of Toledo, USA



Synthesis 2022, 54, 355–368  
DOI: 10.1055/a-1638-2478

A. El-Tunsi  
N. Carter  
S.-H. Yeo  
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A. Choi  
C. M. Kobras  
S. Ndlovu  
I. Proietti Silvestri  
A. K. Fenton  
I. Coldham\*

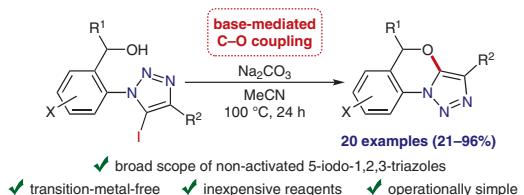
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Synthesis 2022, 54, 369–377  
DOI: 10.1055/a-1623-2333

S. S. Tatevosyan  
Y. N. Kotovshchikov\*  
G. V. Latyshev  
N. V. Lukashev  
I. P. Beletskaya

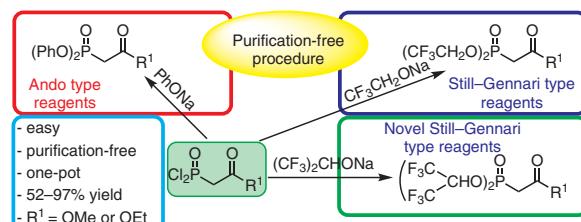
M. V. Lomonosov Moscow State University, Russian Federation



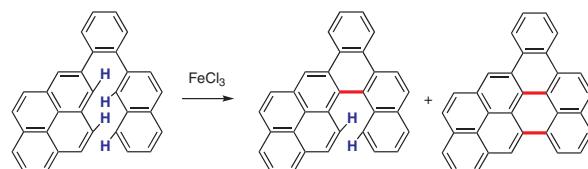
**I. Janicki\***  
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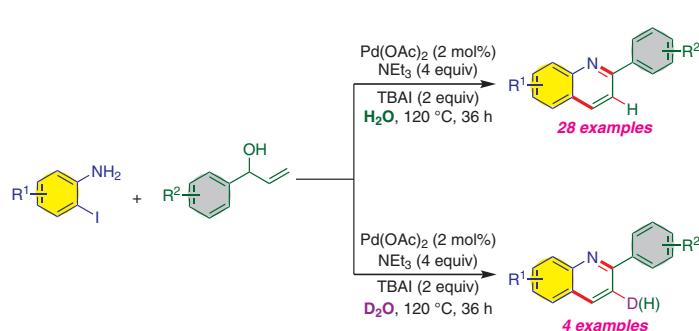
## A Straightforward, Purification-Free Procedure for the Synthesis of Ando and Still–Gennari Type Phosphonates

**M. R. Islam**  
**T. Nishinaga**  
**K. Hirabayashi**  
**T. Shimizu**  
**K.-i. Sugiura\***Tokyo Metropolitan University,  
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## Oxidative Intramolecular C–C Bond Formation Reactions of 1,2-Diarylbenzenes: Syntheses of Highly Conjugated Double-Bridged Polycyclic Aromatic Hydrocarbons

**S. Ghorai**  
**C. Sreenivasulu**  
**G. Satyanarayana\***Indian Institute of Technology,  
Hyderabad, India

## A Domino Heck Coupling–Cyclization–Dehydrogenative Strategy for the One-Pot Synthesis of Quinolines



W. Wu

Y. Jing

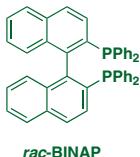
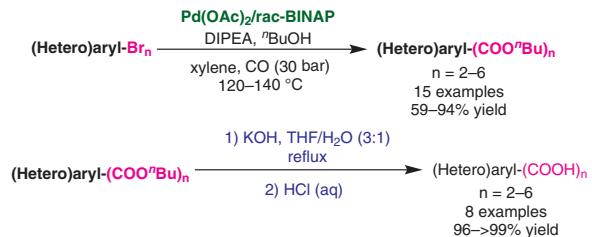
D. Zhang

X. Yan

R. Liang

Z. Lu

B. Ji\*

Luoyang Normal University,  
P. R. of China

D. Zhang

J. Zhang

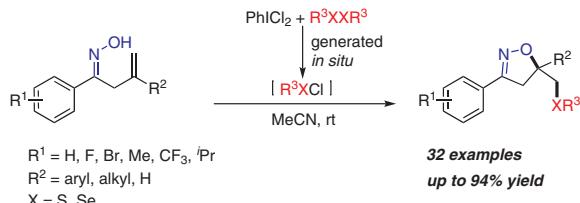
X. Li

Z. Yu

Y. Li

F. Sun\*

Y. Du\*

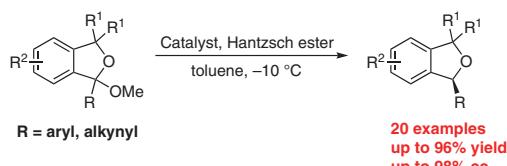
Tianjin University, P. R. of China  
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Synthesis 2022, 54, 429–438  
DOI: 10.1055/a-1625-9538

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L. Yao

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M. Shao

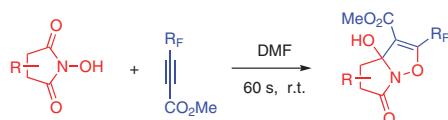
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19 examples, up to 97% yield

Synthesis 2022, 54, 439–450  
DOI: 10.1055/s-0040-1719837

M. Mittersteiner

E. C. Aquino

T. Budragchaa

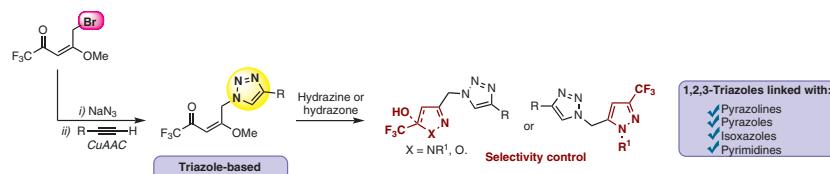
L. A. Wessjohann

H. G. Bonacorso

M. A. P. Martins

N. Zanatta\*

Universidade Federal de Santa  
Maria, Brazil



Selectivity control

1,2,3-Triazoles linked with:  
 ✓ Pyrazolines  
 ✓ Pyrazoles  
 ✓ Isoxazoles  
 ✓ Pyrimidines

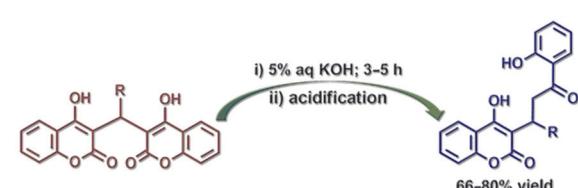
Synthesis 2022, 54, 451–464  
DOI: 10.1055/a-1624-2176

G. Brahmachari\*

M. Mandal

I. Karmakar

Visva-Bharati (a Central University), India



- ✓ operationally simple
- ✓ water as solvent
- ✓ no column chromatography
- ✓ clean reaction profiles

- ✓ warfarin analogues
- ✓ good to excellent yields
- ✓ gram-scale applications
- ✓ green synthesis

**Synthesis**

*Synthesis* 2022, 54, 465–474  
DOI: 10.1055/a-1628-7972

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**Dihydroxylation Studies of Isoquinolinones: Synthesis of the EF-Ring of Lysolipin I****Paper**

**465**

**Synthesis**

*Synthesis* 2022, 54, 475–482  
DOI: 10.1055/a-1645-6040

**X.-L. Xia**

**Q.-L. Zhu**

**J.-Q. Chen**

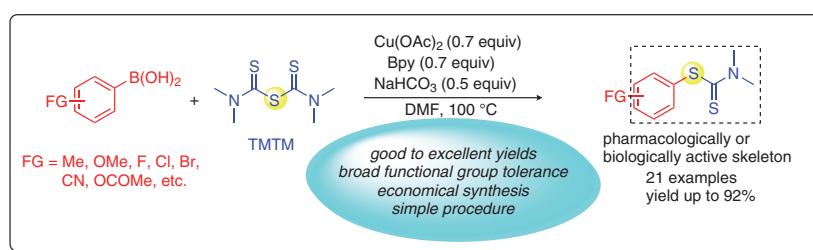
**Z. Shi**

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**Synthesis of Aryl Dithiocarbamates from Tetramethylthiuram Monosulfide (TMTM) and Aryl Boronic Acids: Copper-Catalyzed Construction of C(sp<sup>2</sup>)–S Bonds****Paper**

**475**

**Synthesis**

*Synthesis* 2022, 54, 483–489  
DOI: 10.1055/s-0040-1719832

**A. Fuchiya**

**T. Miyamura**

**H. Nariki**

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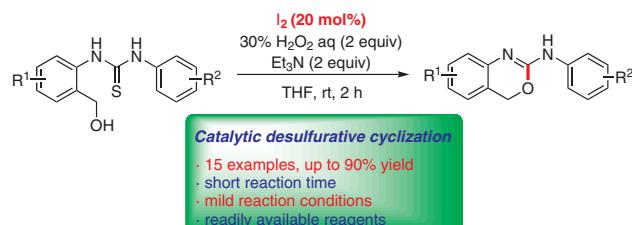
**M. Sonoda**

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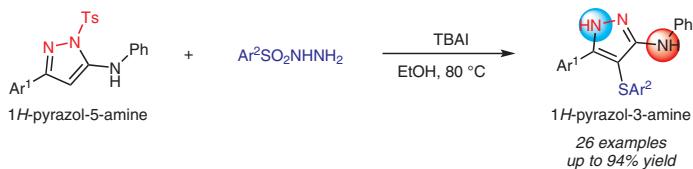
**A Facile Synthesis of 2-Aminobenzoxazines Based on Iodine-Catalyzed Desulfurative Cyclization****Paper**

**483**



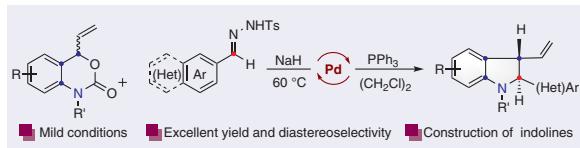
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F.-X. Meng  
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S. A. Paveliev  
A. S. Budnikov  
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