Synthesis

Reviews and Full Papers in Chemical Synthesis

2019
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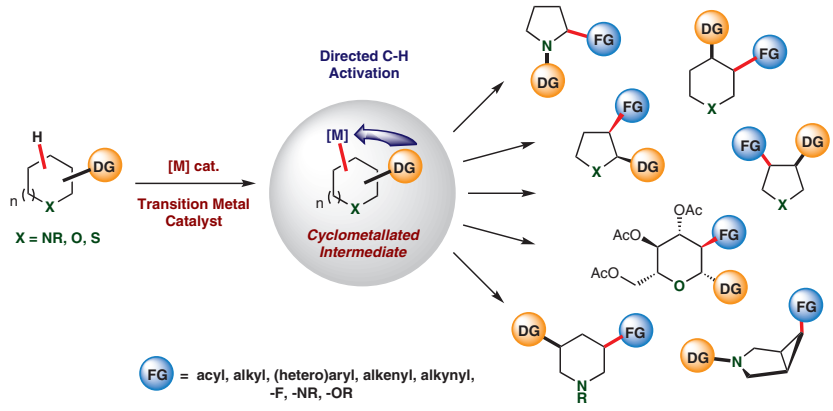
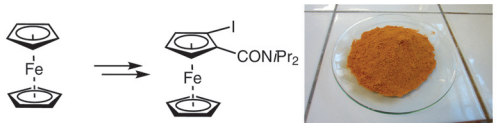
*September I*







Synthesis

## Photoredox Fischer Indole Synthesis

Paper

3214

*Synthesis* **2019**, *51*, 3214–3220
DOI: 10.1055/s-0037-1611535

**A. Kaga**
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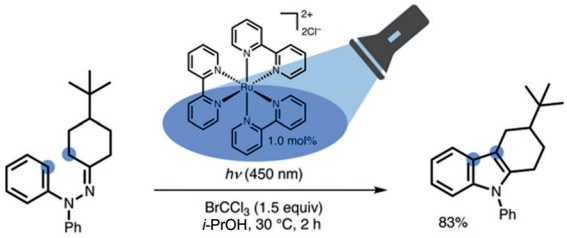


Synthesis

## One-Pot Synthesis of Polysubstituted Imidazoles Based on $Pd(OAc)_2/Ce(SO_4)_2/Bi(NO_3)_3$ Trimetallic Cascade of Decarboxylation/Wacker-Type Oxidation/Debus–Radziszewski Reaction

Paper

3221

*Synthesis* **2019**, *51*, 3221–3230
DOI: 10.1055/s-0037-1611835

**W. Sun**
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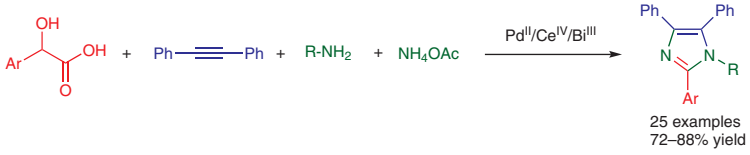


Synthesis

## Dibenzo[*b*,*e*]azepin-6-ones and Seven-Membered Sultam Derivatives: Convenient Synthesis via Palladium-Catalyzed Regioselective Intramolecular Heck Reaction and Application towards Drug-Like Small Molecules

Paper

3231

*Synthesis* **2019**, *51*, 3231–3240
DOI: 10.1055/s-0037-1611548

**A. Das**
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**M. Kundu***
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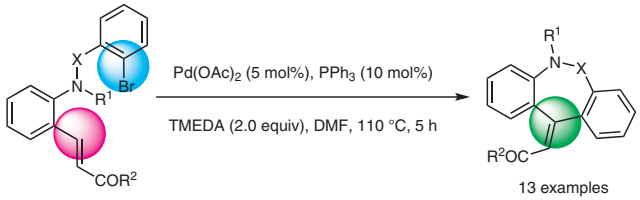


$R^1$ = Me, Et, $^n$Pr, $CH_2CH_2NMe_2$
$R^2$ = OMe, O$^t$Bu, $NMe_2$, *N*-methylpiperazine
X = CO, $SO_2$

Synthesis

*Synthesis* **2019**, *51*, 3241–3249
DOI: 10.1055/s-0037-1611819

**A. Sasmal**
**T. Roisnel**
**J. K. Bera**
**H. Doucet***
**J.-F. Soulé***
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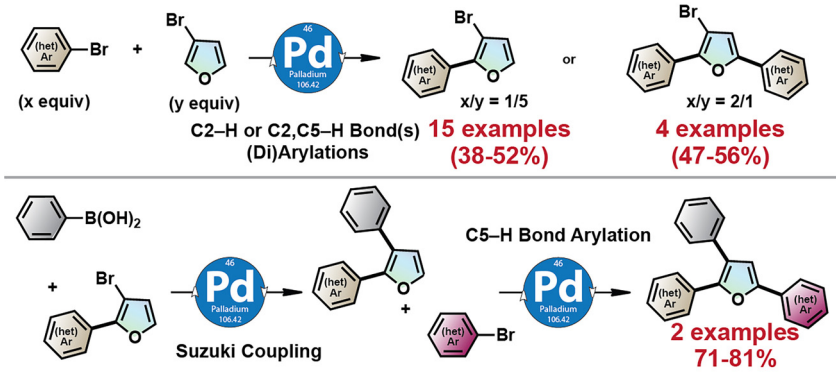
## Reactivity of 3-Bromofuran in Pd-Catalyzed C–H Bond Arylation toward the Synthesis of 2,3,5-Triarylfurans

Paper
3241




Synthesis

*Synthesis* **2019**, *51*, 3250–3258
DOI: 10.1055/s-0037-1611830

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**H. Zhao***
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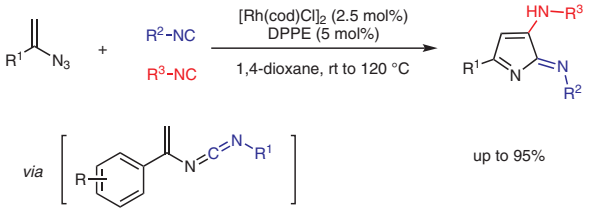
## Rhodium-Catalyzed Double Isocyanide Insertion via a Vinylcarbodiimide Intermediate for the Synthesis of 2*H*-Pyrrol-2-imines

Paper
3250



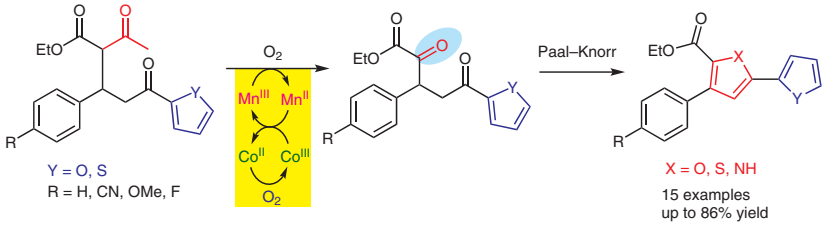

Synthesis

*Synthesis* **2019**, *51*, 3259–3268
DOI: 10.1055/s-0037-1611564

**X. Jiang**
**H. Jin**
**T. Wang**
**H. Yoo**
**S. Koo***
East China University of Science
and Technology, P. R. of China

## Synthesis of Phenyl-2,2′-bichalcophenes and Their Aza-Analogues by Catalytic Oxidative Deacetylation

Paper
3259



Synthesis

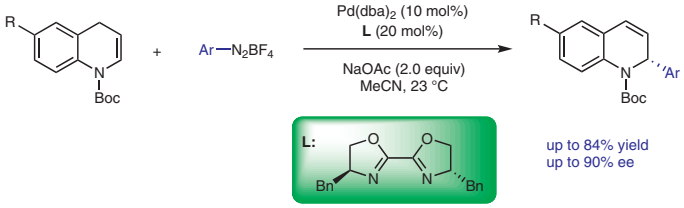
*Synthesis* **2019**, *51*, 3269–3276
DOI: 10.1055/s-0037-1610712

**Z.-Z. Jiang**
**Y.-J. Jiang**
**J. Du**
**D. Chen**
**C.-H. Ding***
**B. Xu***
**X.-L. Hou***

Shanghai University, P. R. of China
Shanghai Institute of Organic Chemistry, P. R. of China

## Palladium-Catalyzed Asymmetric Heck–Matsuda Reaction of 1,4-Dihydroquinolines with Aryl Diazonium Salts






Synthesis

*Synthesis* **2019**, *51*, 3277–3286
DOI: 10.1055/s-0037-1611563

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## Manganese(III)-Based Oxidative Cyclization of *N*-Aryl-2-oxocyclo-alkane-1-carboxamides: Synthesis of Spiroindolinones




R = alkyl
$R^1$, $R^2$, $R^3$, $R^4$ = H, Me, OMe, Cl, F
n = 0–2

25 examples
69% to quant.

Synthesis

*Synthesis* **2019**, *51*, 3287–3294
DOI: 10.1055/s-0037-1610711

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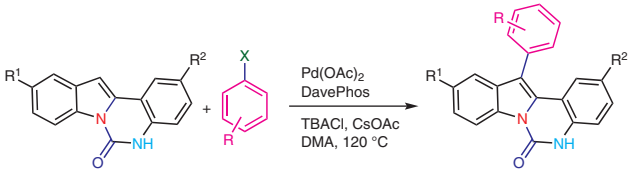
**S. Cacchi**
**G. Fabrizi**
**A. Fochetti**
**F. Ghirga**
**A. Goggiamani***
**A. Iazzetti***
**F. Marinelli**

Università di Roma, Italy

## Palladium-Catalyzed C12-Selective Direct Arylation of [1,2-*c*]-Quinazolin-6(5*H*)-ones






$R^1$ = H, Me; $R^2$ = H, Me
R = *o*-, *m*-, *p*- EWG and EDG, H

X = Br, Cl, I; 22 examples, 10–93%

Synthesis

*Synthesis* **2019**, *51*, 3295–3304
DOI: 10.1055/s-0037-1611530

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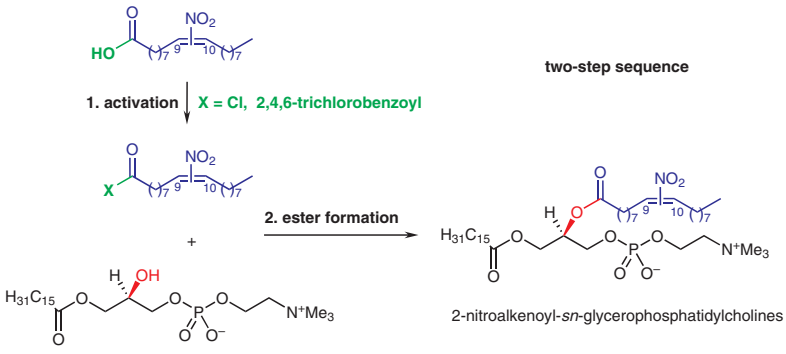
**A. Frank**
**W. Münch**
**U. Dietz**
**U. Nubbemeyer***
Johannes Gutenberg-Universität
Mainz, Germany

## Synthesis of 1-Palmitoyl-2-((*E*)-9- and (*E*)-10-nitrooleoyl)-*sn*-glycero-3-phosphatidylcholines

Paper

**3295**




Synthesis

*Synthesis* **2019**, *51*, 3305–3312
DOI: 10.1055/s-0037-1611824

**I. D. Alshakova**
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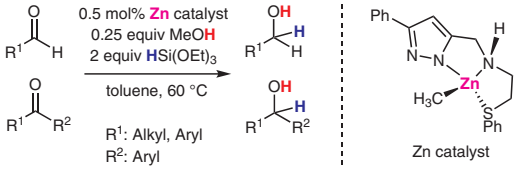
## New Zinc Catalyst for Hydrosilylation of Carbonyl Compounds

Paper

**3305**




Synthesis

*Synthesis* **2019**, *51*, 3313–3319
DOI: 10.1055/s-0037-1611787

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**D.-Q. Dong**
**Q. Deng**
**S.-Q. Yan**
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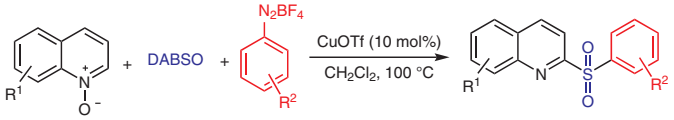
## Copper-Catalyzed Deoxygenative C2-Sulfonylation of Quinoline *N*-Oxides with DABSO and Phenyldiazonium Tetrafluoroborates for the Synthesis of 2-Sulfonylquinolines via a Radical Reaction

Paper

**3313**



Synthesis

## Cobalt-Catalyzed Cycloisomerization of *N*,*N*-Diallylanilines

Paper

3320

*Synthesis* **2019**, *51*, 3320–3326
DOI: 10.1055/s-0037-1611832

**J. Liu**
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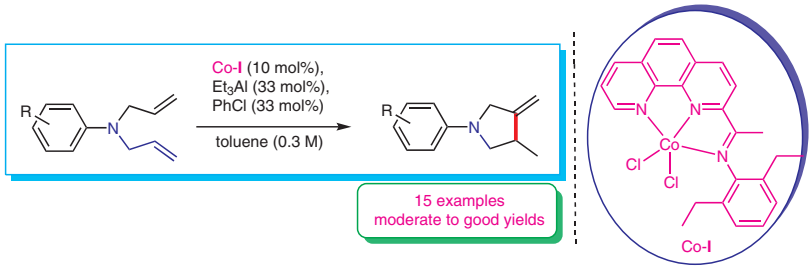


Synthesis

## The Catalytic Asymmetric Construction of Trifluoromethylated Quaternary Carbon-Containing Thiochromans

Paper

3327

*Synthesis* **2019**, *51*, 3327–3335
DOI: 10.1055/s-0037-1611547

**H. Chen**
**C. Wang**
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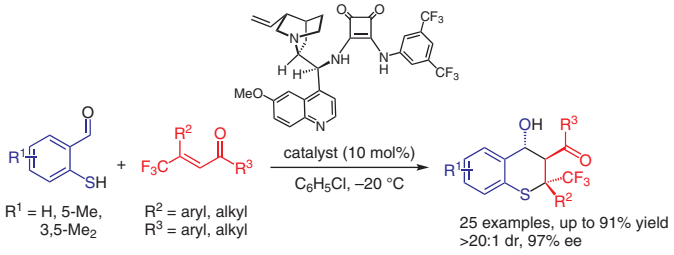


Synthesis

## Microwave-Assisted CuCl-Catalyzed Three-Component Reactions of Alkynes, Aldehydes, and Amino Alcohols

Paper

3336

*Synthesis* **2019**, *51*, 3336–3344
DOI: 10.1055/s-0037-1611536

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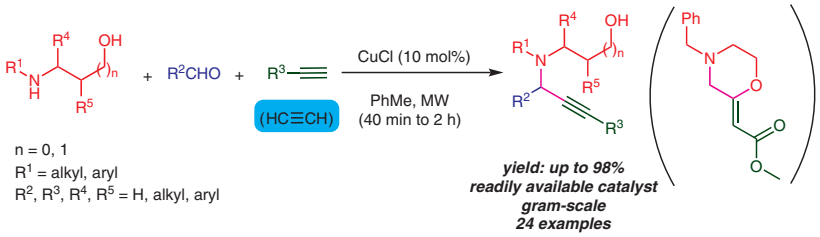

Synthesis

*Synthesis* **2019**, *51*, 3345–3355
DOI: 10.1055/s-0037-1611837

**F. Yuan**
**W. Duan**
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**X. Luo**
**M. Zhang**
**H. Deng**
**L. Song***

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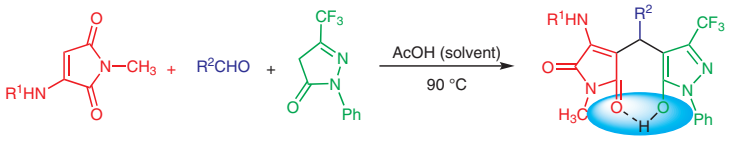
Shanghai Institute of Organic Chemistry, P. R. of China

## One-Pot Synthesis of Trifluoromethylated Pyrazol-4-yl-pyrrole-2,5-dione Derivatives






$R^1$, $R^2$ = Alkyl, Aryl

71–90%, 26 examples

Synthesis

*Synthesis* **2019**, *51*, 3356–3368
DOI: 10.1055/s-0037-1611531

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## L-Prolinal Dithioacetal: A Highly Effective Organocatalyst for the Direct Nitro-Michael Addition to Selected Cyclic and Aromatic Ketones