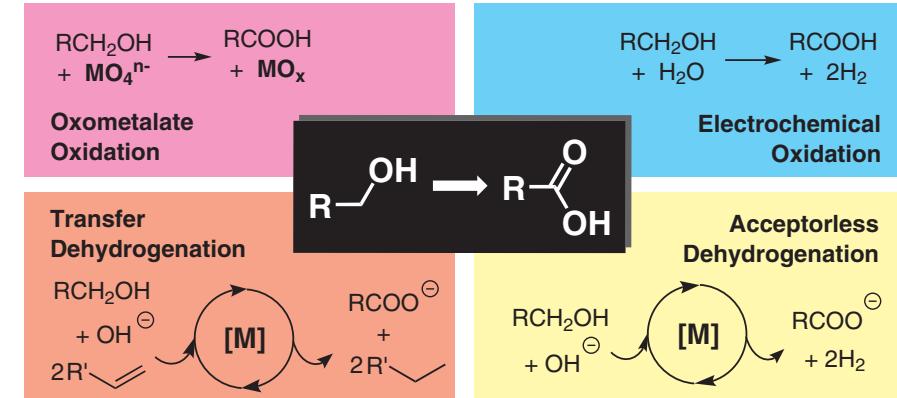


# Synthesis

Reviews and Full Papers in Chemical Synthesis

March 17, 2021 • Vol. 53, 983–1180



Direct Oxidation of Primary Alcohols to Carboxylic Acids

V. Cherepakhin, T. J. Williams

6



Thieme

**Synthesis**

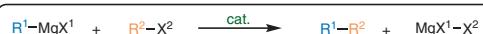
*Synthesis* 2021, 53, 983–1002  
DOI: 10.1055/s-0040-1705986

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Transition-Metal-Catalyzed Cross-Coupling Reactions of Grignard Reagents

Review  
983



$R^1, R^2$  = organic substituents  
 $X^1$  = Cl, Br, I  
 $X^2$  = leaving group (e.g. halogen, OR, OTs)  
 cat. = transition-metal catalyst (e.g. Ni, Pd, Fe, Co, Cu, Mn, Cr)

**Synthesis**

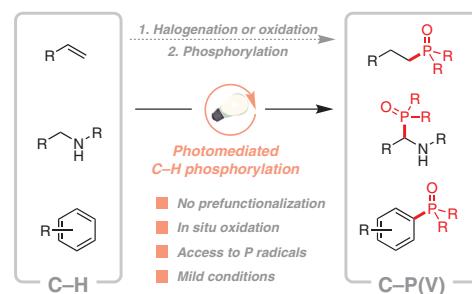
*Synthesis* 2021, 53, 1003–1022  
DOI: 10.1055/s-0040-1705978

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Shining Light on the Light-Bearing Element: A Brief Review of Photo-mediated C–H Phosphorylation Reactions

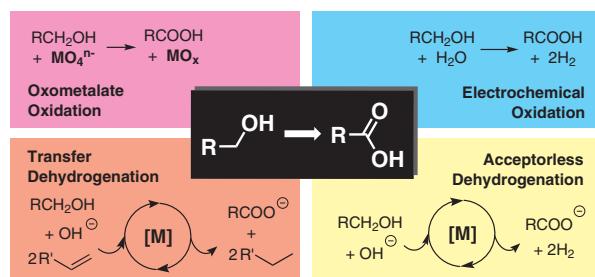
Review  
1003



Synthesis 2021, 53, 1023–1034  
DOI: 10.1055/s-0040-1706102

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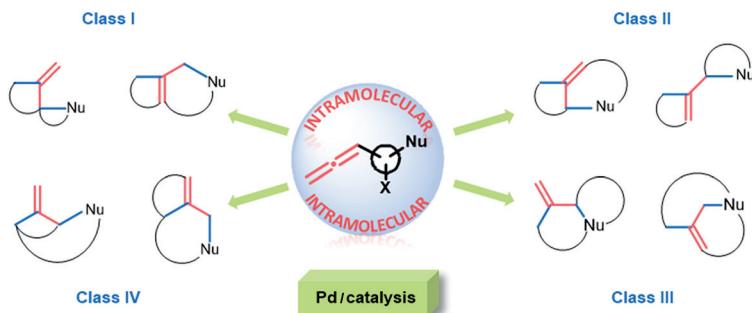
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Synthesis 2020, 52, 1035–1045  
DOI: 10.1055/s-0040-1705994

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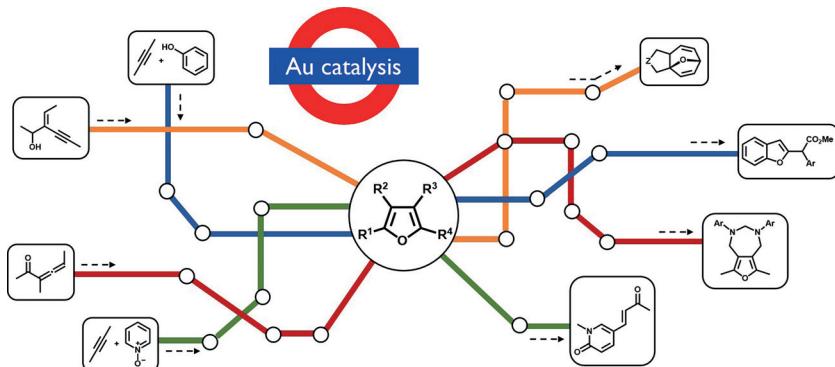
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Synthesis 2021, 53, 1046–1060  
DOI: 10.1055/s-0040-1705996

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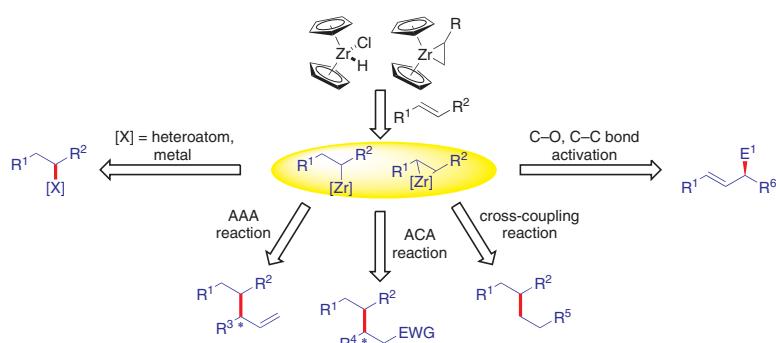
Synthesis 2021, 53, 1061–1076  
DOI: 10.1055/s-0040-1706146

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Synthesis 2021, 53, 1077–1086  
DOI: 10.1055/s-0040-1706088

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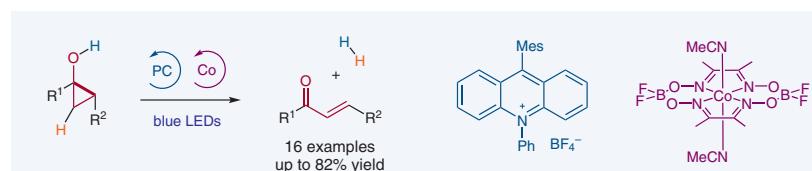
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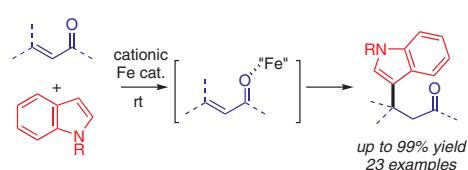
Synthesis 2021, 53, 1087–1094  
DOI: 10.1055/s-0040-1705997

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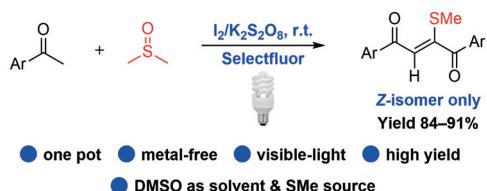


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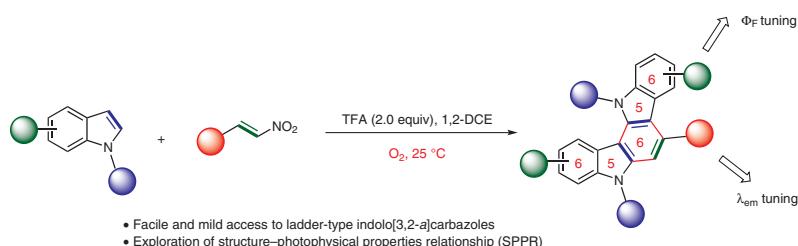
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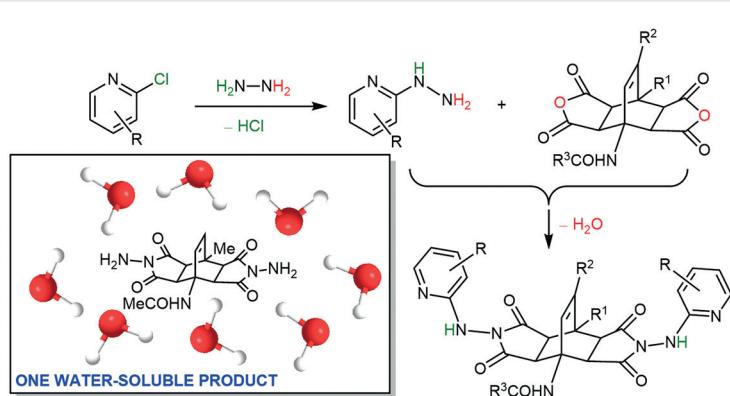
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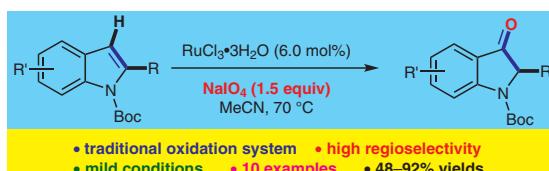
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Synthesis 2021, 53, 1121–1126  
DOI: 10.1055/s-0040-1706539

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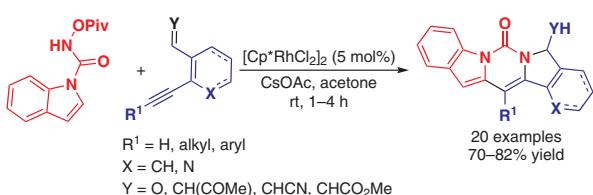
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Synthesis 2021, 53, 1127–1136  
DOI: 10.1055/s-0040-1707312

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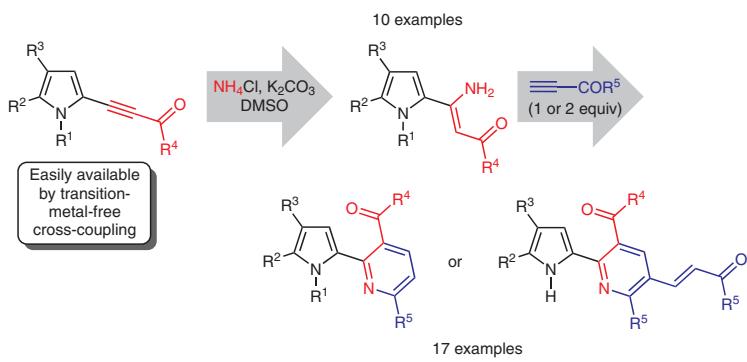
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Synthesis 2021, 53, 1137–1148  
DOI: 10.1055/s-0040-1706474

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Synthesis 2021, 53, 1149–1156  
DOI: 10.1055/s-0040-1706295

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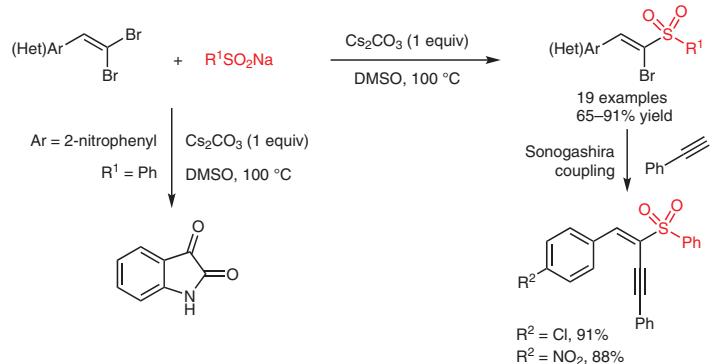
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Synthesis 2021, 53, 1157–1162  
DOI: 10.1055/s-0040-1706482

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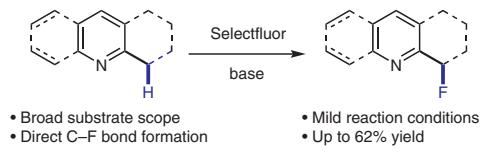
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Synthesis 2021, 53, 1163–1173  
DOI: 10.1055/s-0040-1706637

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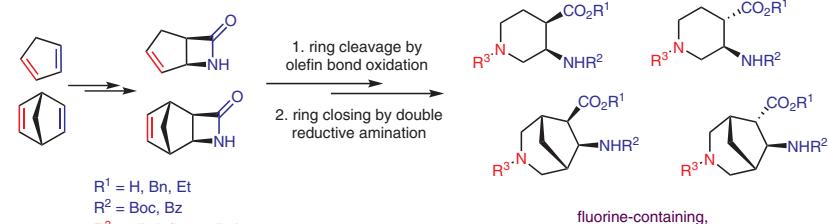
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12 examples

diastereoechemical diversity

Synthesis 2021, 53, 1174–1180  
DOI: 10.1055/s-0040-1706299

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