

Synthesis

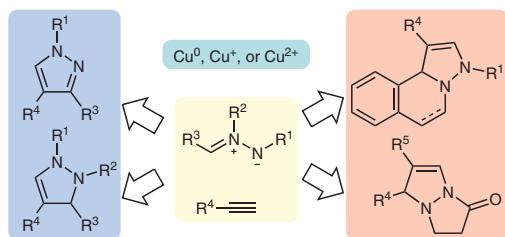
Synthesis 2018, 50, 4501–4524
DOI: 10.1055/s-0037-1610284

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Copper-Catalyzed Azomethine Imine–Alkyne Cycloadditions (CuAIAC)

Review

4501



Synthesis

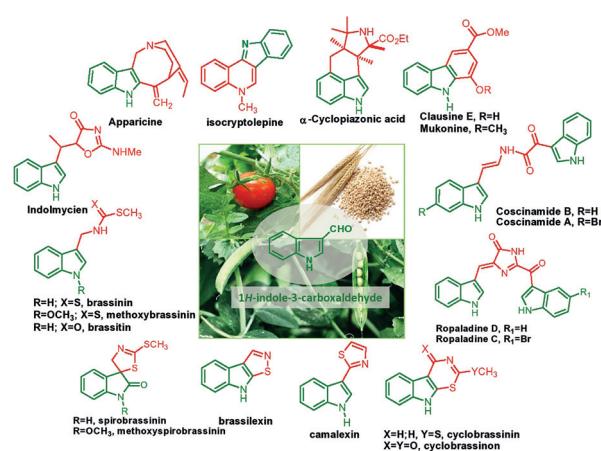
Synthesis 2018, 50, 4525–4538
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Utilization of 1*H*-Indole-3-carboxaldehyde as a Precursor for the Synthesis of Bioactive Indole Alkaloids

Review

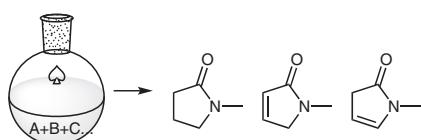
4525



Synthesis 2018, 50, 4539–4554
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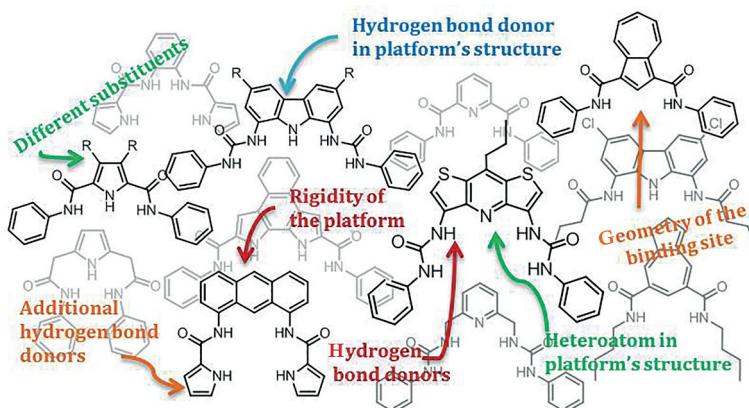
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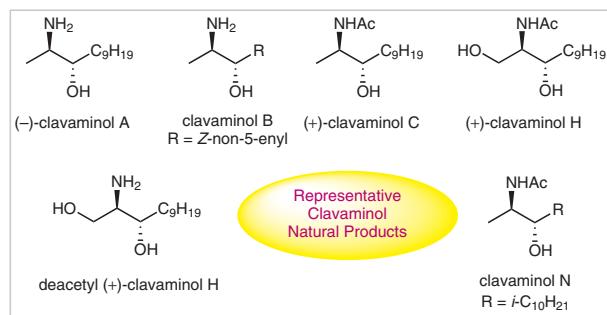
Synthesis 2018, 50, 4555–4568
DOI: 10.1055/s-0037-1609943

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Synthesis 2018, 50, 4569–4576
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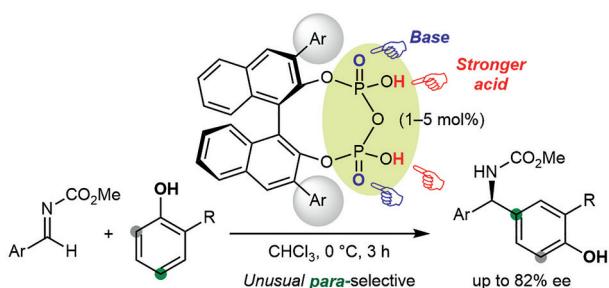
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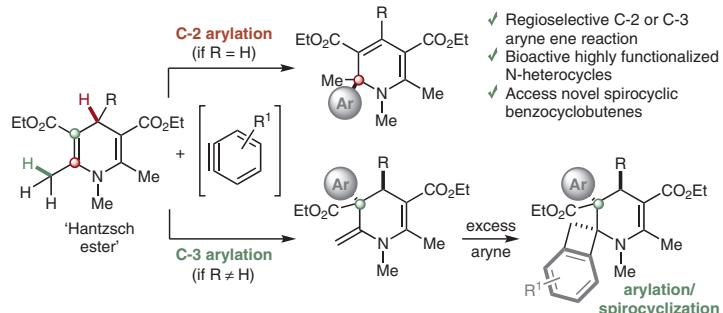
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- metal-free and mild conditions
- useful in phenylpropanoids synthesis
- gram-scale synthesis

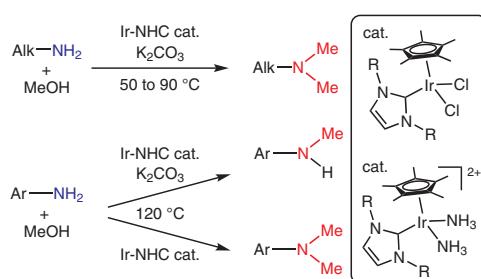
7 examples
 63–76% yield



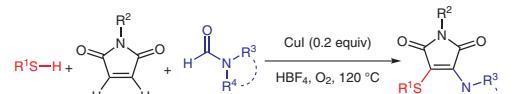
- highly selective mono-oxidation
- useful synthetic strategy

single product, 66% yield

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R¹ = aryl, alkyl

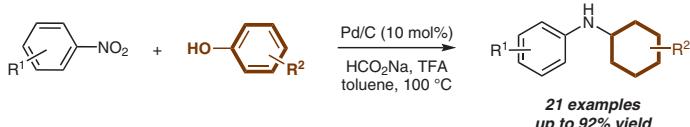
R², R³, R⁴ = H, aryl, alkyl

23 examples, 27–87% yields

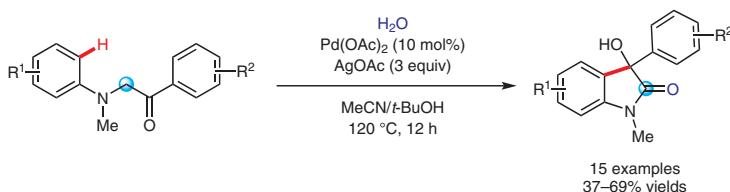
- Unperturbed double bond
- High efficiency and atom economy
- Formamides as the nitrogen sources
- High functional-group tolerance
- C–S and C–N bond formation in one step
- Direct C(sp²)–H bond difunctionalizations

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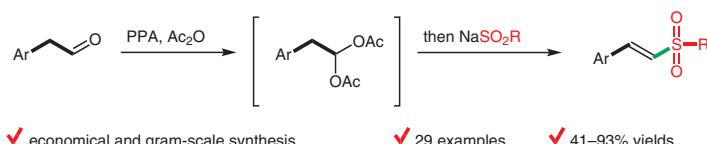


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1,1-diacetoxylation/deacetoxyative sulfenylation



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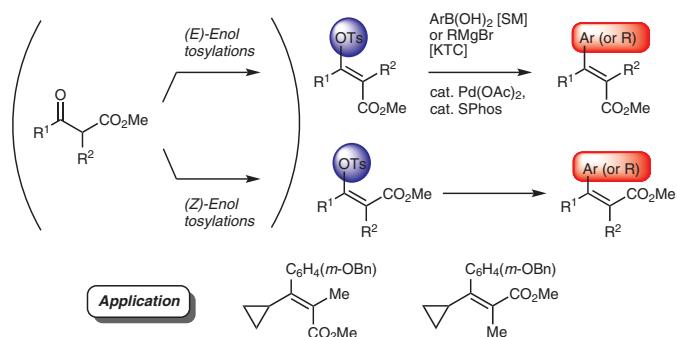
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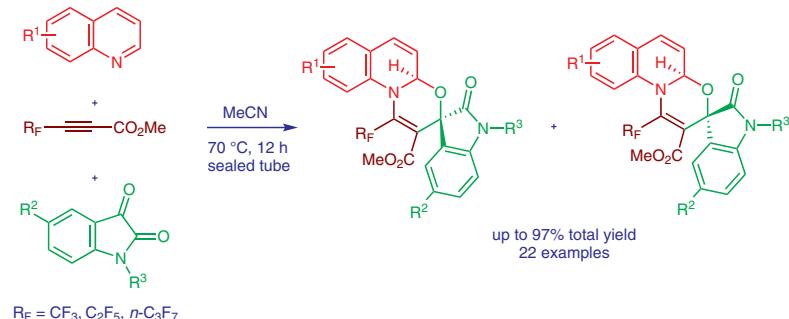
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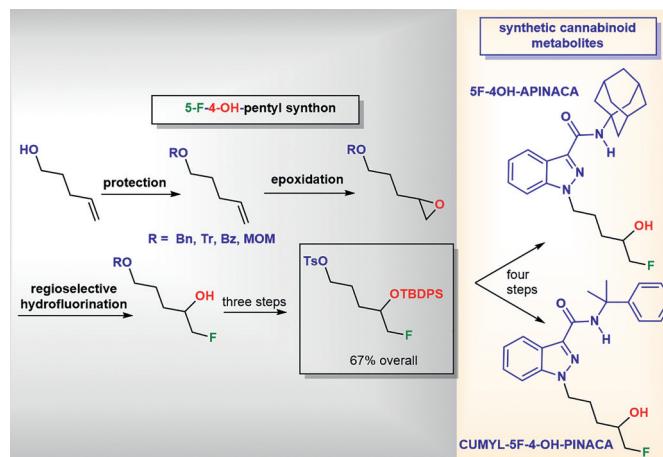
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