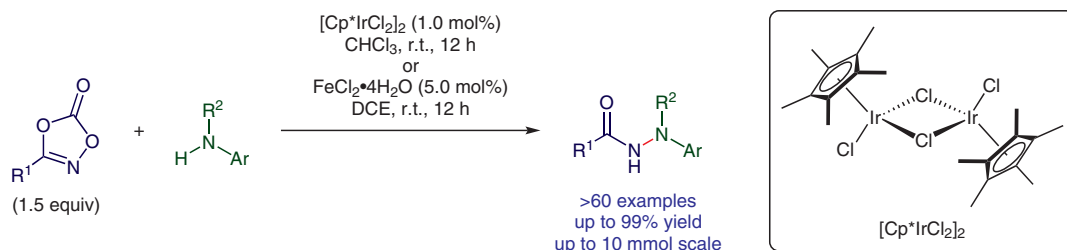


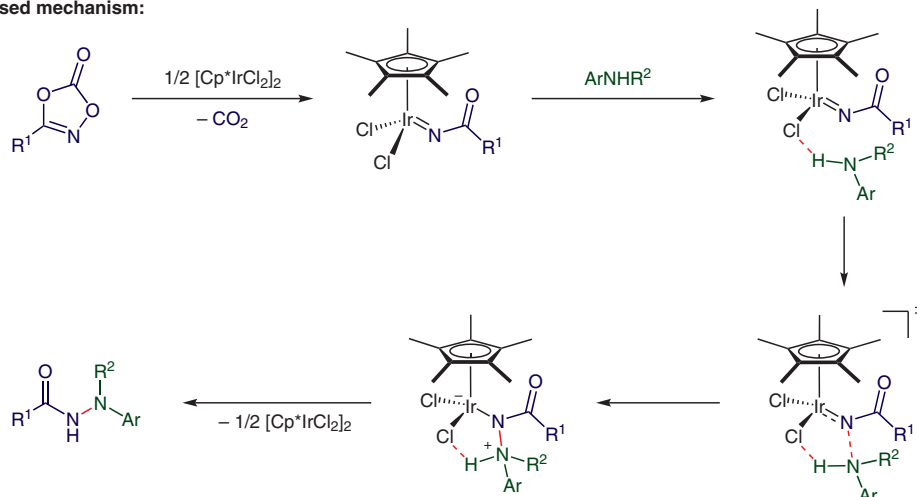
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Nitrene-Mediated Intermolecular N–N Coupling for Efficient Synthesis of Hydrazides  
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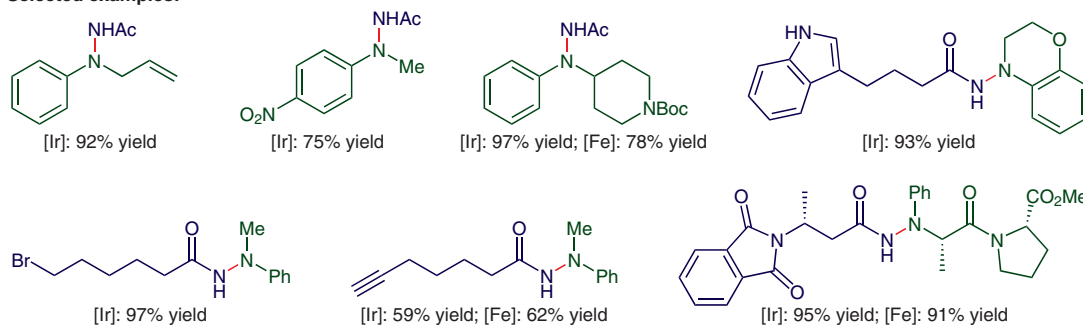
## Synthesis of Hydrazides by N–N Coupling



### Proposed mechanism:



### Selected examples:



**Significance:** Chang, Chen, and co-workers report a synthesis of hydrazides from arylalkylamines and dioxazolones, which serve as nitrene precursors. Iridium complexes as well as simple iron halides were found to efficiently catalyze the transformation.

**Comment:** The reaction proceeds under mild conditions with excellent functional group tolerance, including pseudopeptides. Mechanistic studies indicate that the attack of the electrophilic iridium-nitrenoid intermediate by the amine is assisted by Cl...HN bonding.

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