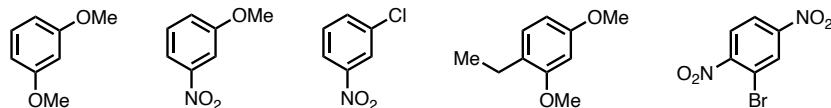
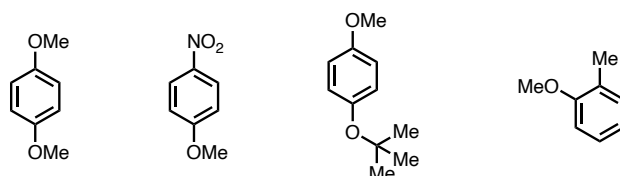


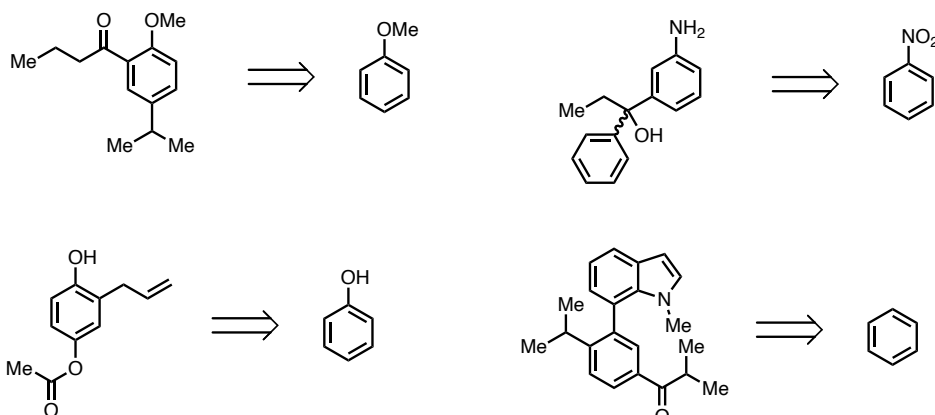
1. Order the following substrates according to increased reactivity toward Friedel-Crafts reactions. [★]



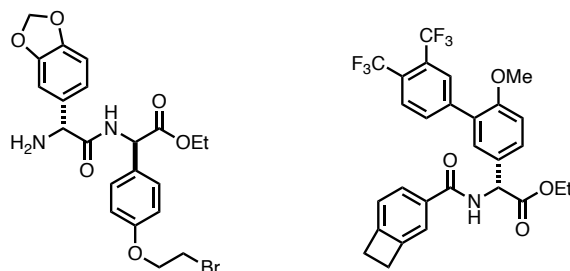
2. Indicate the most activated position towards Friedel-Crafts reactions. [★]



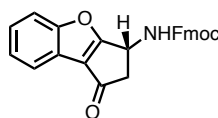
3. Propose a synthetic strategy for each of the following retrosyntheses. [★★]



4. Propose a synthesis of the following molecules (molecules are not reported in the paper, but similar substrates were successfully synthesized) using the strategy developed by List and co-workers (*J. Am. Chem. Soc.* **2023**, *145*, 15708–15713). [★★]



5. Propose a synthesis of the following molecule molecules (the molecule is not reported in the paper, but similar substrates could be successfully synthesized) using the strategy developed by List and co-workers (*J. Am. Chem. Soc.* **2023**, *145*, 15708–15713). [Fmoc, fluorenylmethoxycarbonyl] [★★★]



6. Complete the synthesis of the catalyst. [MOM, methoxymethyl] [★★]

