

ELECTRONIC SUPPLEMENTARY INFORMATION

**CARBOXYLIC ACID RECOVERY FROM
PHOSPHONIUM PHOSPHINATE IONIC LIQUID
AND DOWNSTREAM CONVERSION ENABLE
VALORIZATION OF FERMENTED WASTEWATER**

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This document contains schematic drawings of the experimental setups

1. Schematic drawings of experimental setups

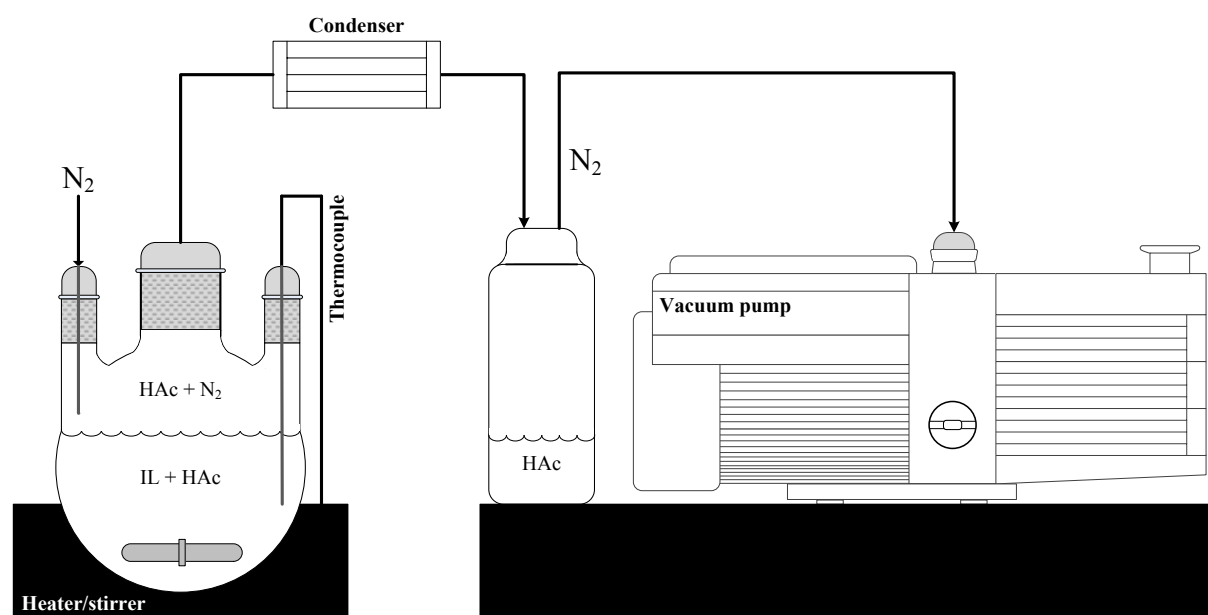


Fig. S1. Schematic representation of evaporation apparatus.

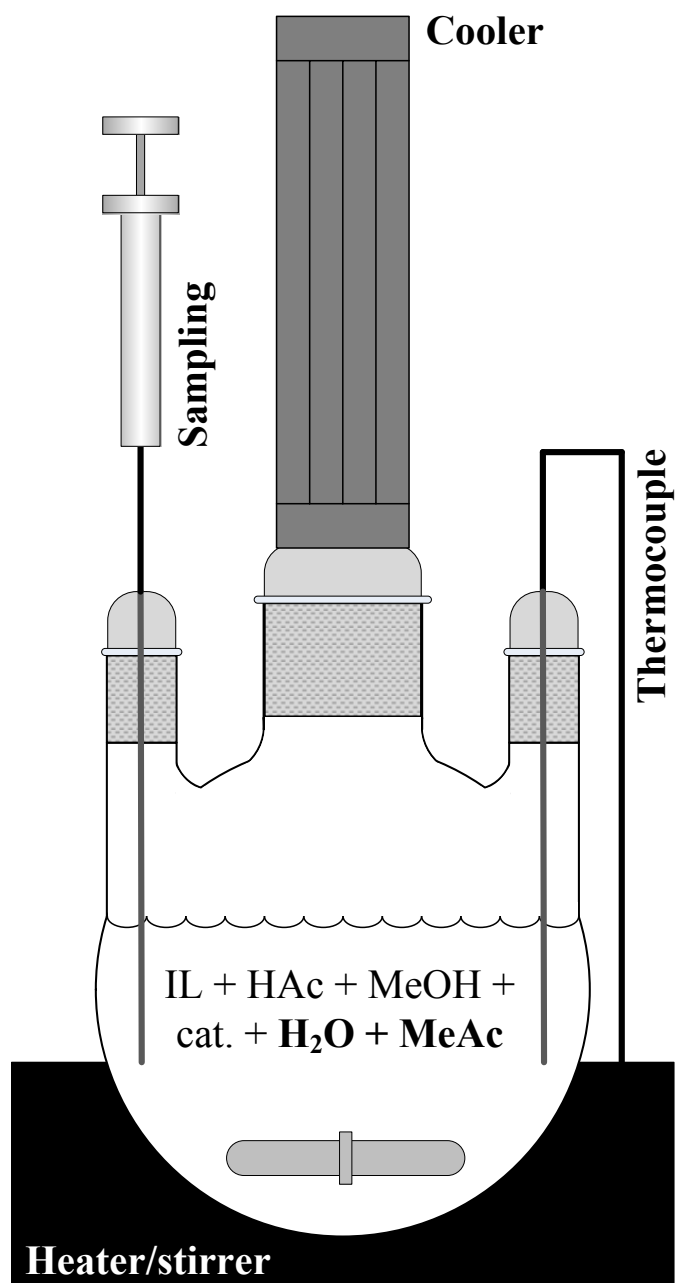


Fig. S2. Experimental apparatus for esterification of HAc with MeOH in IL.

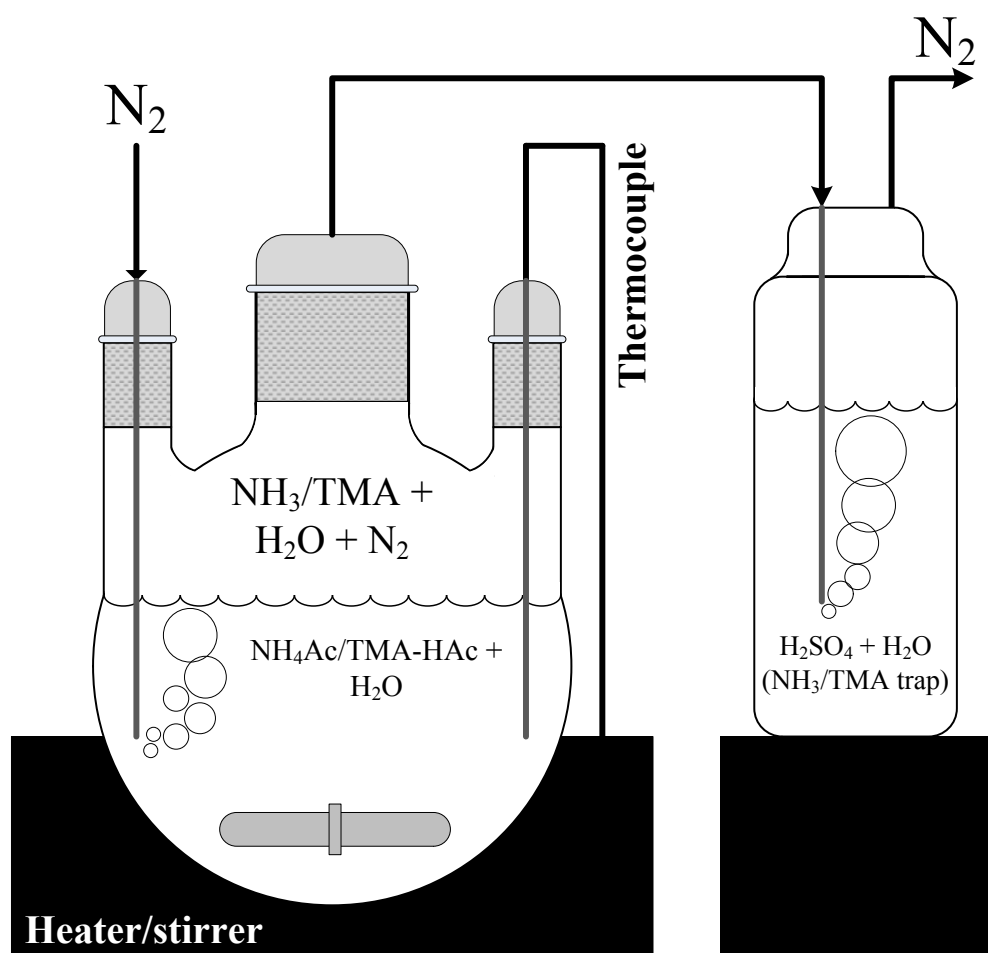


Fig. S3. Experimental apparatus for NH_3 or TMA removal from aqueous NH_4Ac or TMA-HAc solution.

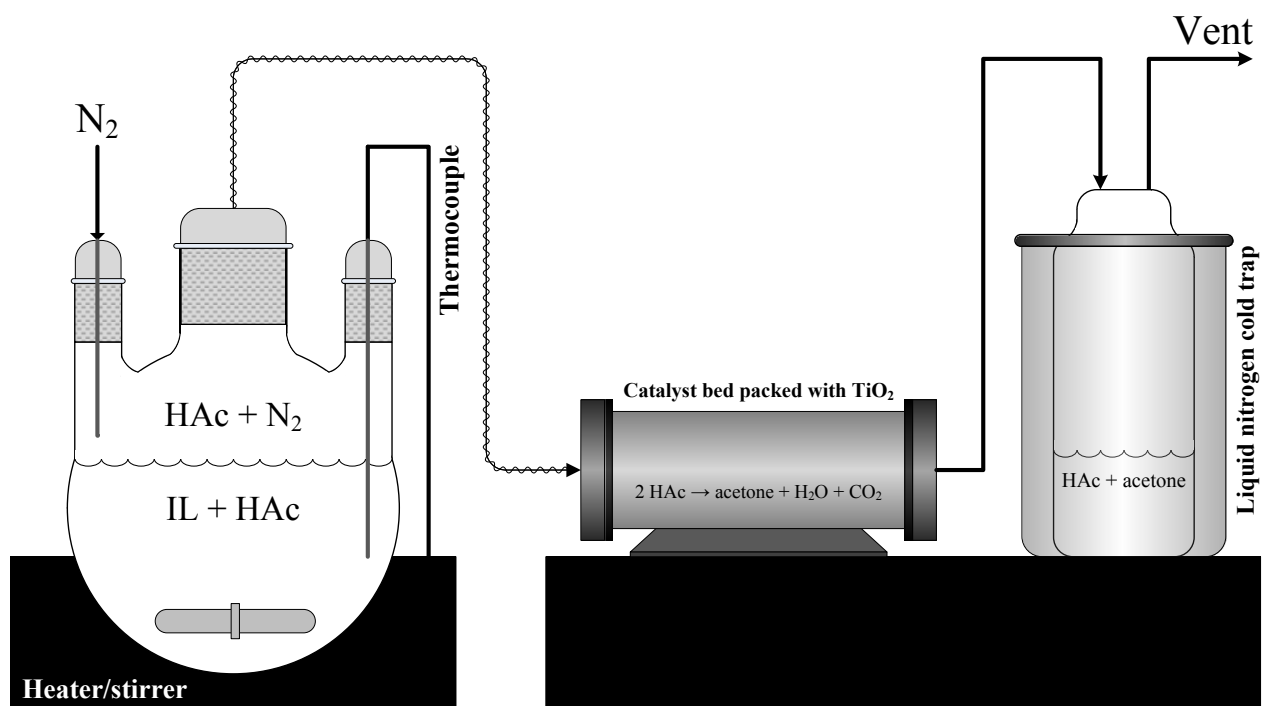


Fig. S4. Experimental apparatus for coupled regeneration-conversion