What is a Metal Organic Framework (MOF)?
What is a Metal Organic Framework (MOF)

- Highly Porous molecules
  - Useful for
    - Storage
    - Reaction stages
      - Quenching of chemicals
      - Capture of harmful chemicals/gases
- Tunable Organic Linkers
  - Useful for creation of chemically selective materials
PCN128-W and PCN128-Y

- Piezofluorochromic MOF
  - Water Stable
  - Large pores

- PCN-W transforms into PCN-Y
  - Due to use of ETTC linkers

Piezofluorochromic Metal-Organic Framework: A Micro-Scissor Lift Qiang Zhang1, Jie Su2,*, Dawei Feng1, Zhangwen Wei, Xiaodong Zou2 and Hong-Cai Zhou1,*
Experiments

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\text{Br}_2 \quad \text{CH}_2\text{Cl}_2
\]
Experiments
Experiments
Future Steps
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