

Integrated Membrane-Pyrolysis-Catalytic Upgrading Systems

Disclosure Number

201503495

Technology Summary

This invention discloses an innovative integration of unique super-hydro-tunable or super-organo-tunable HiPAS membranes with biofuel processing at elevated temperatures such as pyrolysis reactor and bio-oil vapor upgrading reactor to enable a new processing capability to reduce process cost, prolong the lifetime of catalyst for upgrading, and achieve membrane fractionation.

Inventor

HU, MICHAEL Z
Energy & Transportation Science Division

Licensing Contact

FRANCO, NESTOR E
UT-Battelle, LLC
Oak Ridge National Laboratory
6196
1 Bethel Valley Road
Oak Ridge, TN 37831

Office Phone: (865) 574-0534

E-Mail: FRANCONE@ORNL.GOV