

## Identification of studies via databases and registers

Identification

Records identified from:  
Database – Scopus (n=392)

Papers removed *before screening*:

Paper identified as have no type "article" (n = 78)

Review paper identified (n=11)

Screening

Papers screened (n = 314)

Papers excluded as published before 2020 (n = 182)

Included

LLM-based topic assignment

Papers excluded with unassigned topic (n = 40)

Studies included in review (n = 142)

Distribution by topics:  
Fuel Mixture Optimization (n=49)  
Biomass Production Optimization (n=80)  
Gasification & Pyrolysis (n=20)