

R Code for Modelling Gasification and Related Processes

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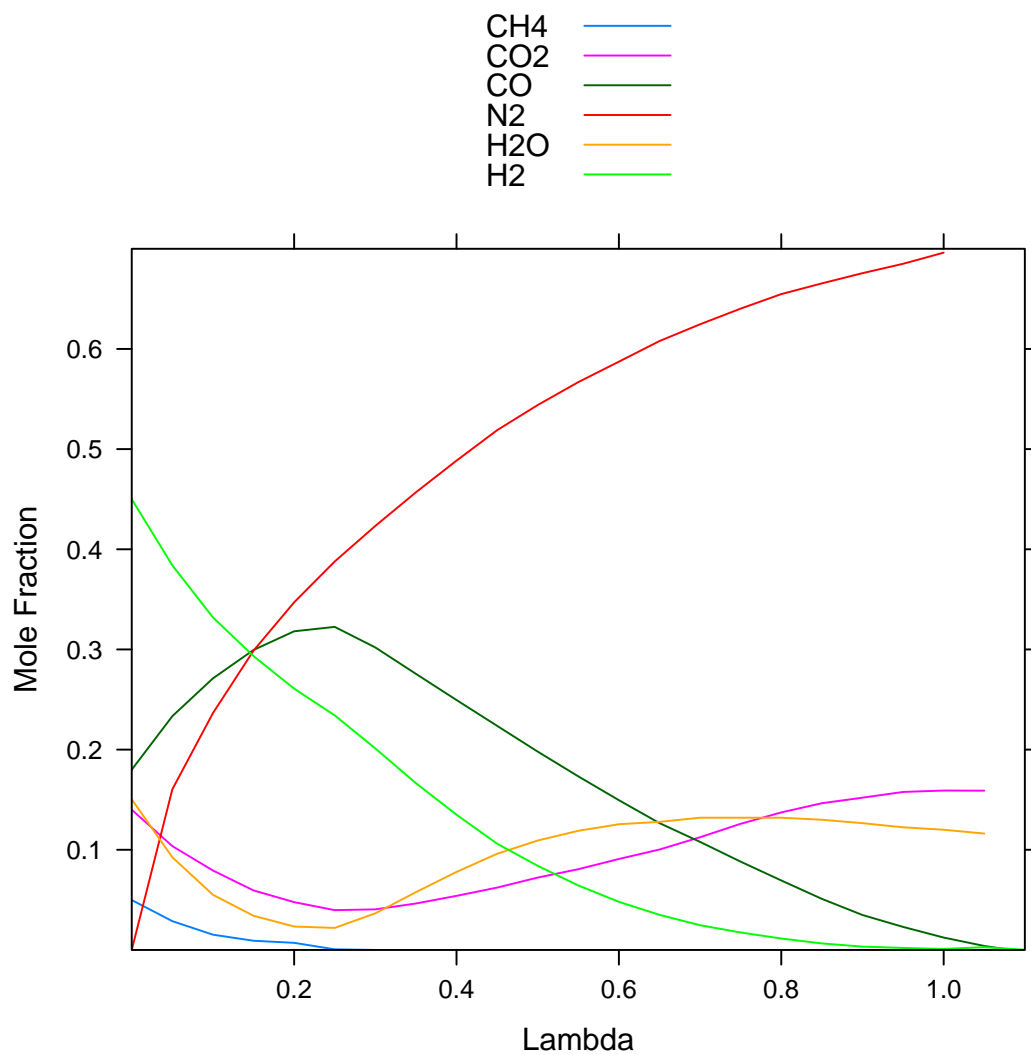
1 Description

The code here is used to help in modelling gasification reactions and related processes.

This document is an early stage exploration of models, graphics, and equations related to biomass energy. Proper citations may not be included in this text, but are generally available in the included code and data. Additional relevant publicly available data and data sets are welcomed.

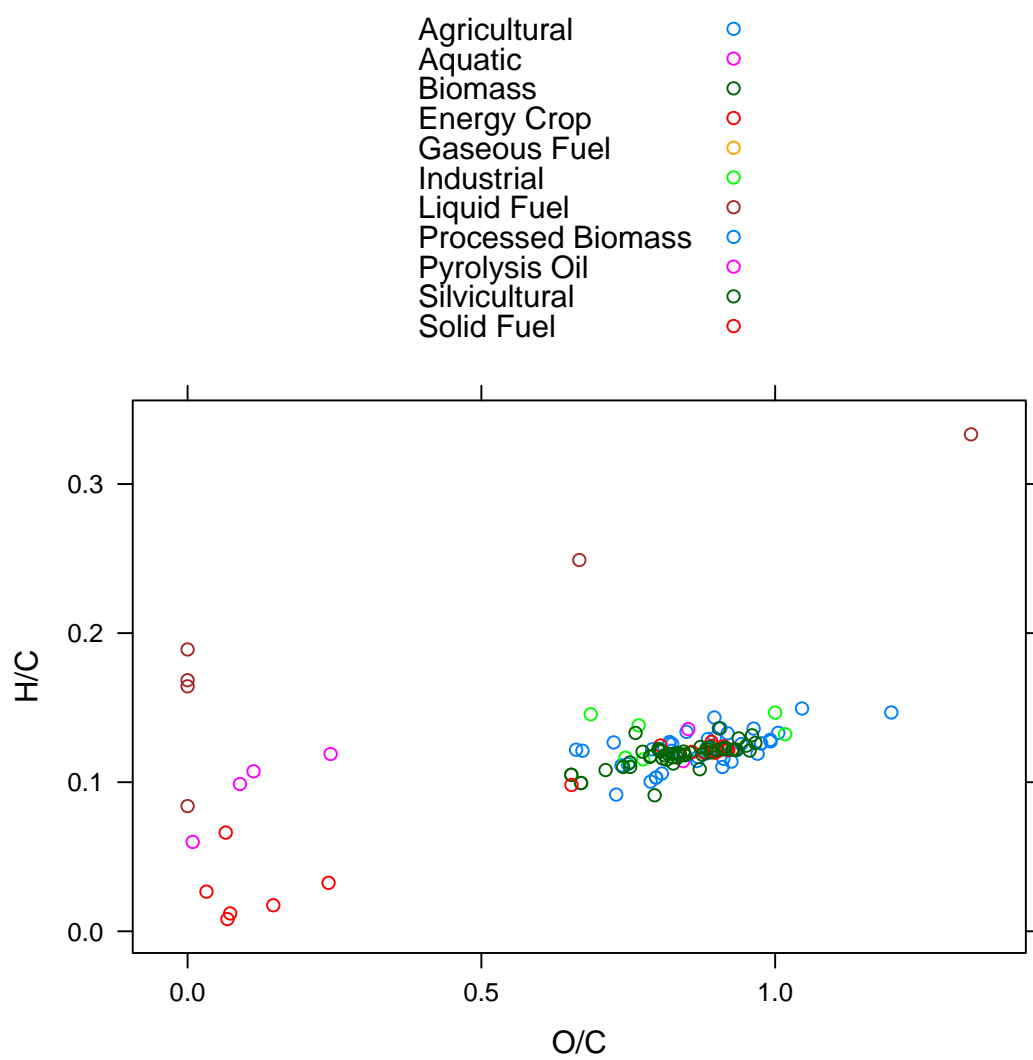
2 Graphs

2.1 Gasification Gas Composition vs. Lambda

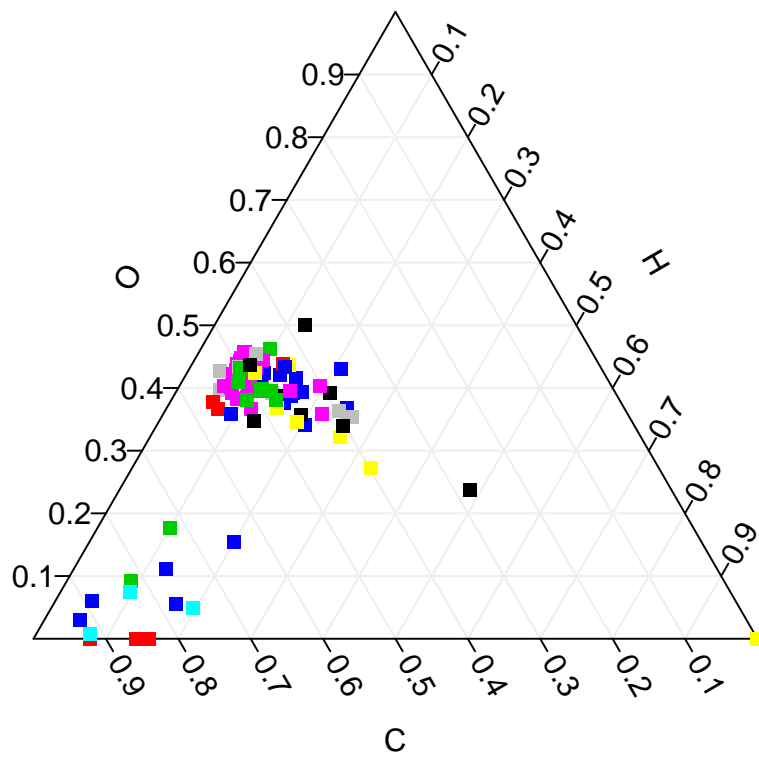


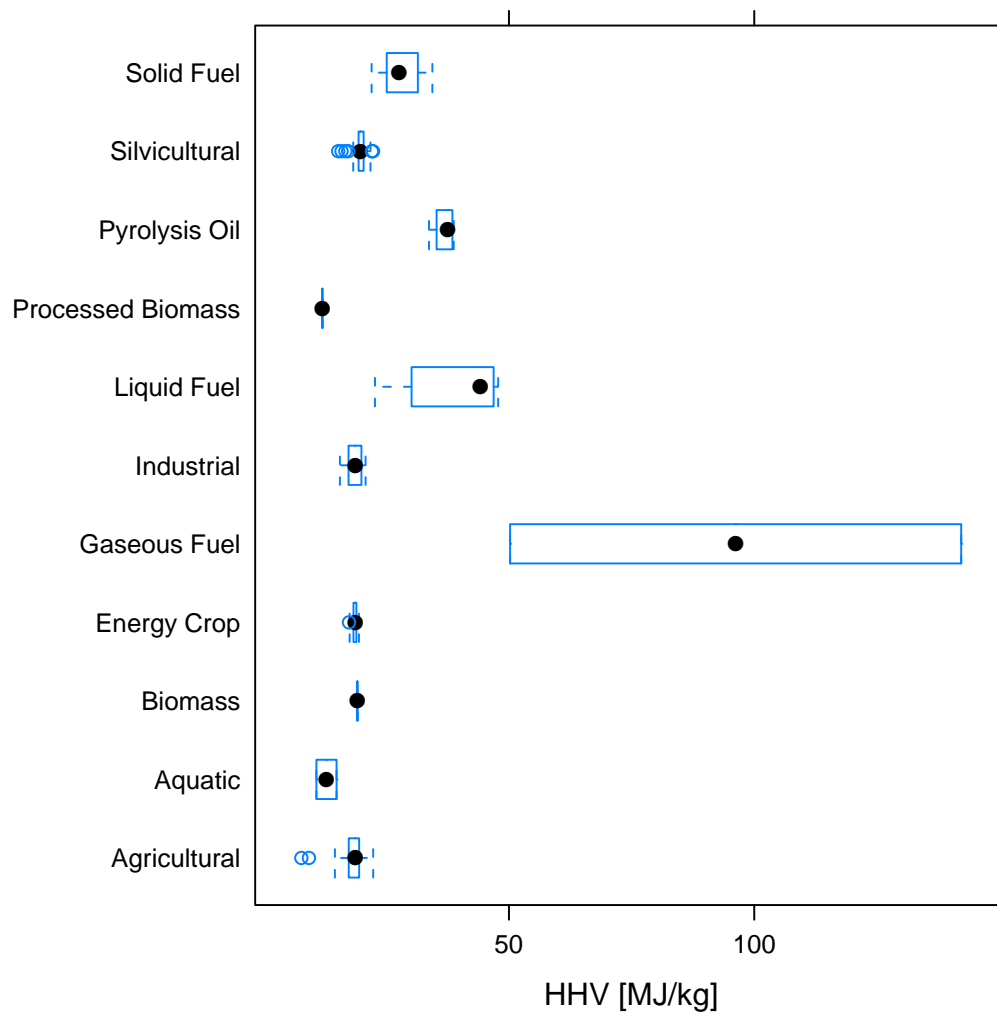
Data from Kaupp [citation needed]

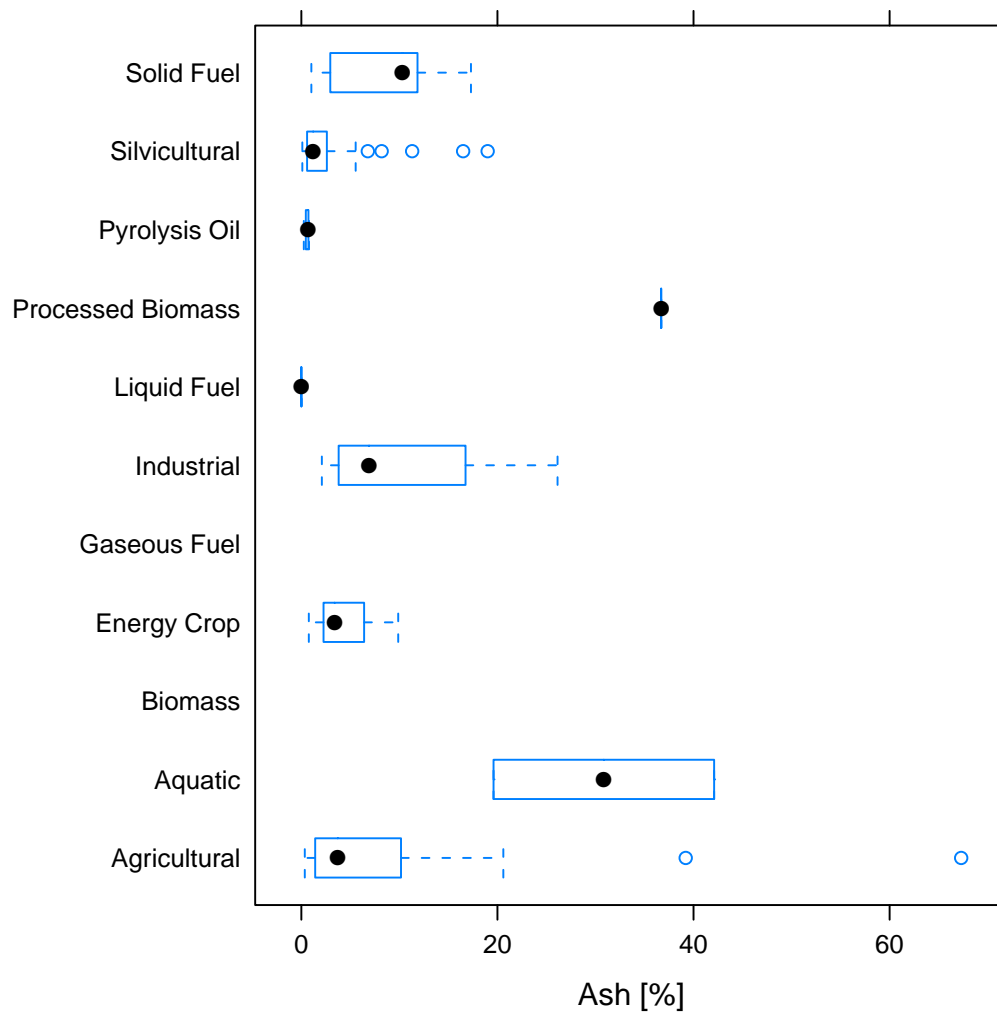
3 Van Krevelen Diagram

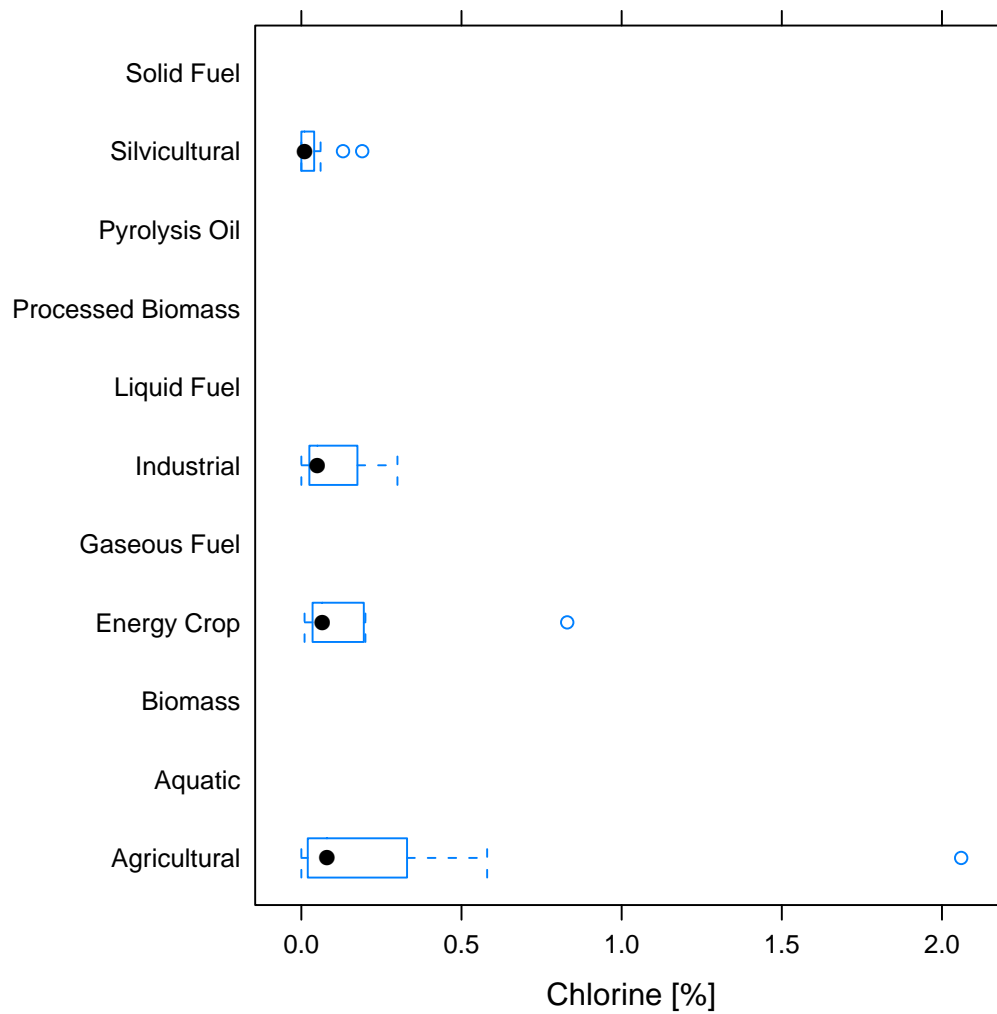


4 Biomass Ternary Diagram









	Material	Entity	Fixed.Carbon	Volatiles	Ash	C
137	Leaves	Water Hyacinth (Florida)		80.40	19.60	40.30
138	Leaves	Brown Kelp,Giant, Soquel Point		57.90	42.10	27.80

Table 1: Data for Aquatic Biomass

5 Combustion

