Boundless Creation Theorem: Critics on Catalysts Optimization from Lignin for Production of Biofuel

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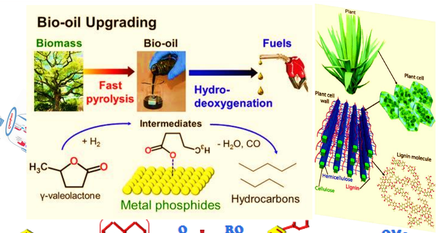

Background

Previous case studies indicated that traditional methods were not effective and efficient in presenting the critics on catalysts optimization from lignin for the production of Biofuel. Many researchers could not formulate the concept because they did not know how to give a proper method. Some know the “What’s” but do not know the “How’s”; some know the “How’s” but do not know the “What’s”. To help overcome the difficulties of understanding the topic, this project proposes to include the New Theorem & Logic Methodology as an inspiring tool in catalysts optimization.

Research Objectives

1. Formulate new ways of seeing the potential of catalysts clearly if the New Theorem & Logic Methodology has improved the catalysts optimization.
2. Identify useful information to better understand the catalyst optimization in an economic analysis.

Literature Review

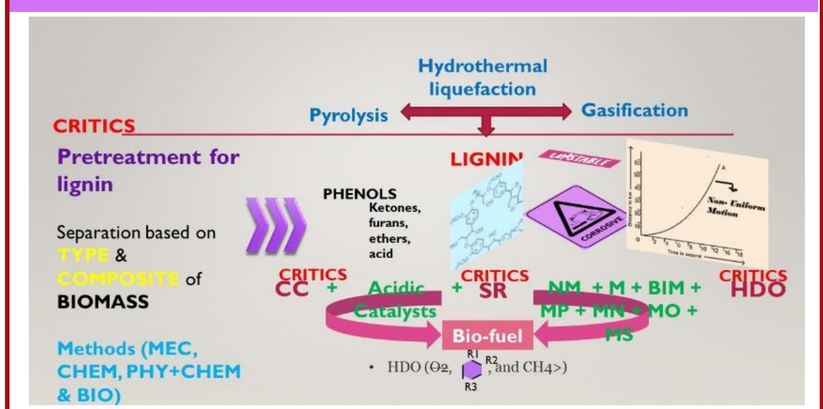

Figure 1. Elaboration on Production of Biofuel from Lignin

(Source: Parveen Kumar, 2009)

Literature Review

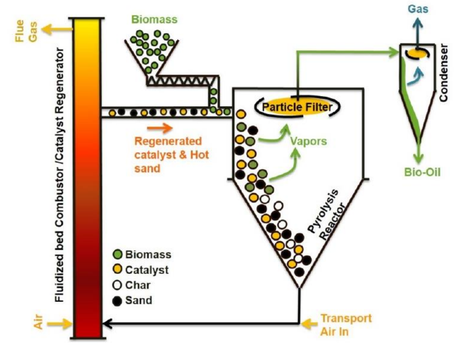

Figure 2. The schematic presentation of the PyRos Reactor System

(Source: Imran et al., 2018)

Methodology

Data will be collected by analysing graphs and tables in this study. The analysis will be on the performances of selected catalysts for optimization from lignin for production of Biofuel. The catalysts will be given ratings on their performance before and after the inclusion of the New Theorem & Logic Methodology in catalyst optimization. Professors will be asked to comment on this method instead of conjecturing alone.

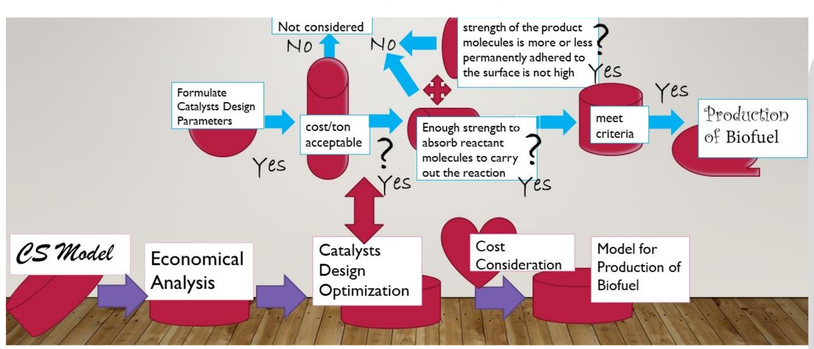

Figure 3. Catalysts Design Optimization by CS Model

Findings

It is anticipated that the catalysts would have higher performances by using these approaches. The catalysts can list out some useful information in this field. They are also expected to show some improvements on the production of Biofuel with the New Theorem & Logic Methodology in the future.

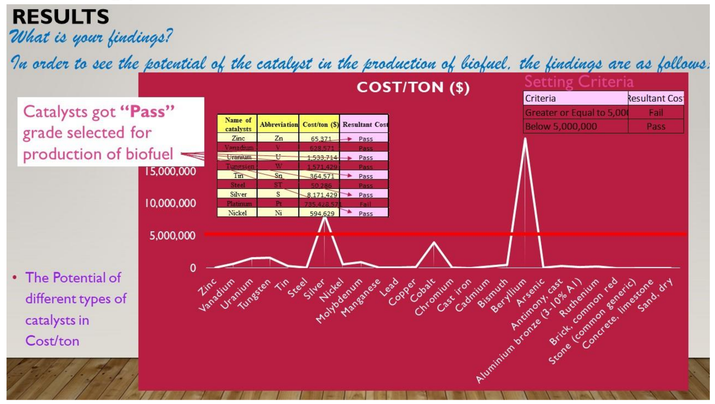

Figure 4. Results – 1st scenario

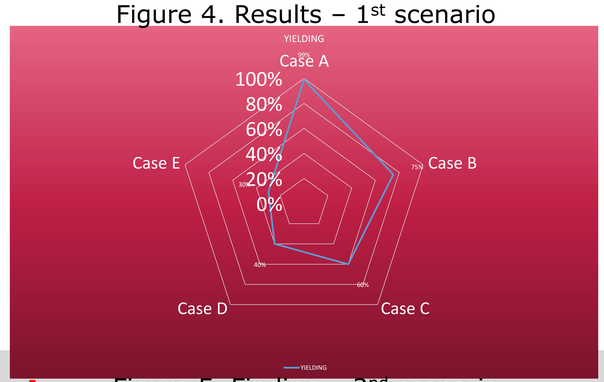

Figure 5. Finding – 2nd scenario

Conclusion

Lastly, the performance of selected catalysts are illustrated under new ways of catalyst design optimization by CS model for further studies and research. Detailed conclusion is found in Final Year Report. In conclusion, the key points of this project are:

- **Before treatment** of **biomass** is **critical** for production of Biofuel
- The **choice of Catalyst** is critical for CC, SR & HDO to take place
- People’s increasing lifespan is also increasing the population (e.g. more elderly and young children), who are at risk of high demand for Biofuel → **lower cost, recycling** and **compatible catalyst**