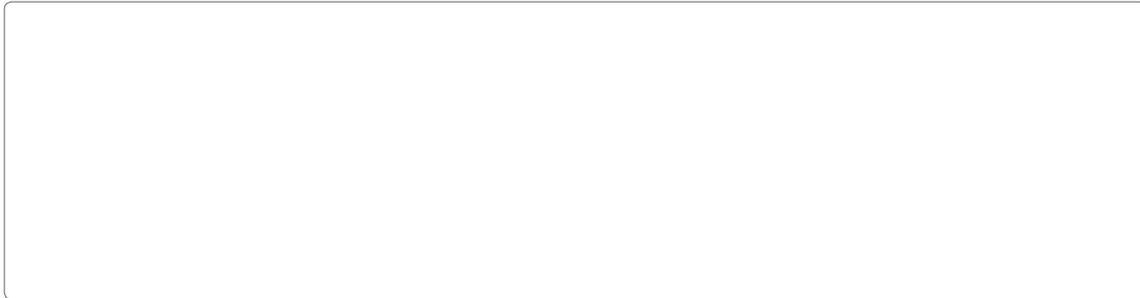




discovered based on the composition of the ash. Additionally, the complete kinetic index were computed [6].



## Keywords:

hydrothermal carbonization, biowaste, co-carbonization, kinetic index

## Introduction

The hydrothermal carbonization (HTC) is a thermochemical process that converts biomass into a carbon-rich solid product (biochar) and a liquid product (bio-oil) in the presence of water. This process is considered as a promising technology for the conversion of biomass into energy and chemicals. The HTC process is highly dependent on the operating conditions, such as temperature, time, and pressure. The kinetic index is a parameter that is used to evaluate the progress of the HTC process. The kinetic index is defined as the ratio of the remaining biomass to the initial biomass. The kinetic index is a function of time and temperature. The kinetic index is used to determine the optimal operating conditions for the HTC process. The kinetic index is also used to compare the HTC process with other thermochemical processes. The kinetic index is a useful tool for the optimization of the HTC process.

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1. Introduction  
2. Materials and Methods  
3. Results and Discussion  
4. Conclusion  
5. Acknowledgments  
6. References

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