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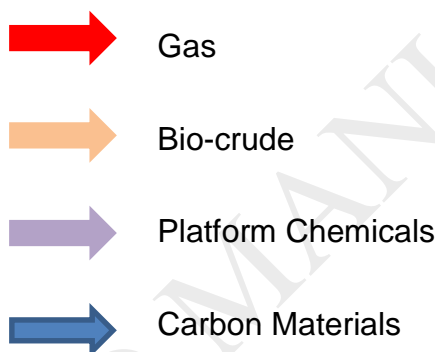
## Hydrothermal biomass conversion: Quo vadis?

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### Graphical Abstract:



### Highlights

- A historical overview about hydrothermal conversions.
- Shift from energy use to material applications.
- Bio-refinery concepts are proposed to overcome economic challenges

For around 100 years, the hydrothermal gasification, liquefaction, and carbonization has been studied for conversion of biomass to valuable gas, liquid, and solid products. Influenced by the oil crises, a previous focus has been on the production of fuels by reducing the oxygen content of biomass, therefore also increasing the heating value, and producing gases or oils. In the past mainly

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