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## Recent advances in production and upgrading of bio-oil from biomass: A critical overview

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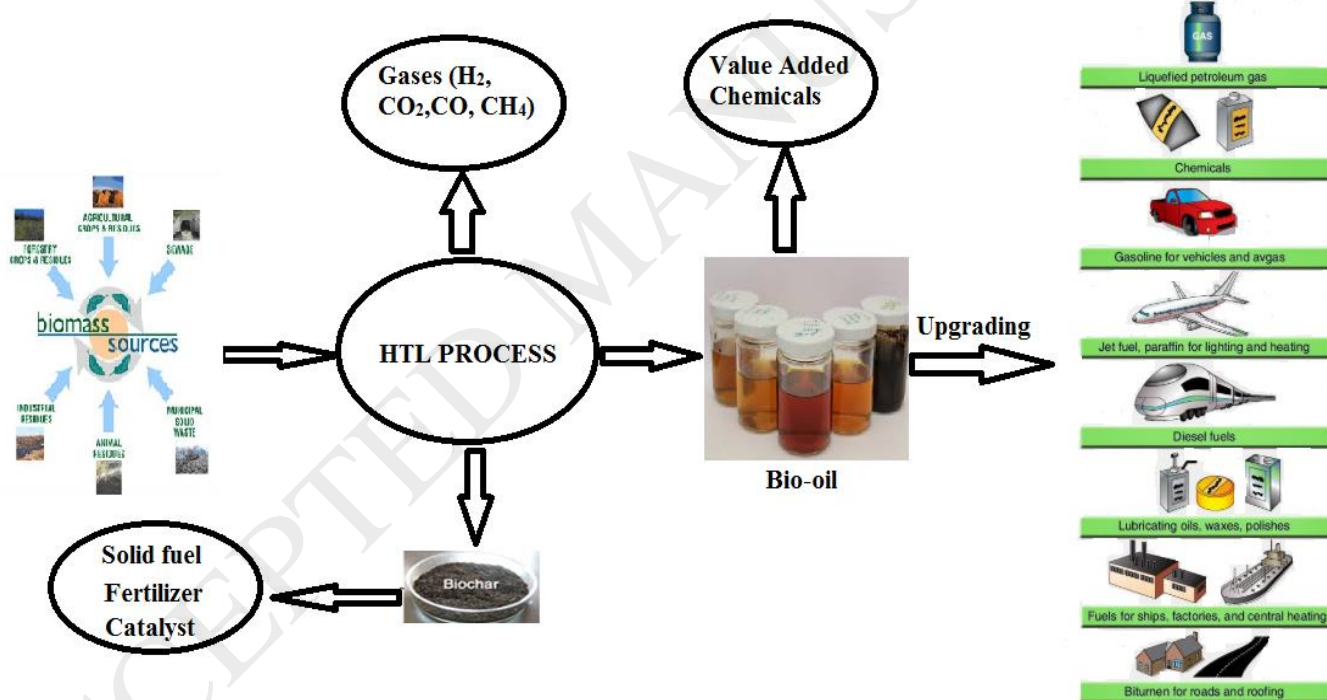
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### Graphical Abstract



### Highlights

- Recent advances in the production of bio-oil were systematically reviewed.
- The source and properties of biomass were summarized.
- Hydrothermal liquefaction process parameters were discussed.
- The properties of bio-oil were summarised.

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