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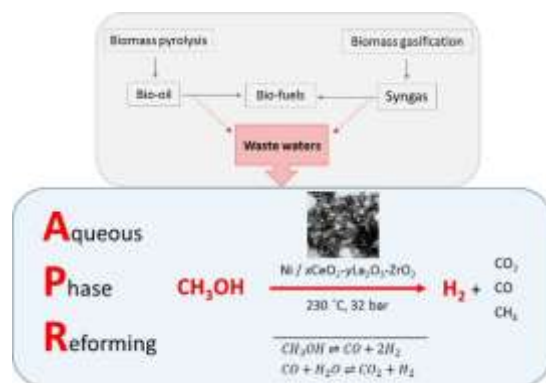
Hydrogen production via aqueous-phase reforming of methanol over nickel modified Ce, Zr and La oxide supports

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Graphical abstract



Highlights

- Highest conversions of MeOH (over 50 %) obtained over Ni/17Ce-Zr and Ni/25Ce-Zr
- Significant benefit of using mixed oxides over pure oxides was proven
- High hydrogen production efficiency obtained over all tested catalysts
- Ni particles sintering caused slight deactivation of the tested catalysts
- High activity after 12 h on stream over mixed oxides supported catalysts

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