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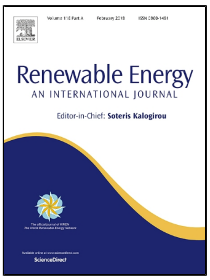

Coupled effect of torrefaction and blending on chemical and energy properties for combustion of major open burned agriculture residues in Thailand

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Highlights

- Torrefaction at high temperature of agriculture residues blends has been investigated
- Energy density increasing and chlorine content mitigation has been observed for torrefied biomass
- Positive and/or negative synergistic effects were observed during co-pyrolysis of the mixtures.
- Ignition and burnout temperature have been calculated for raw and torrefied biomass