



ผศ.ดร.กุลนันท์ วีรณรงค์กร

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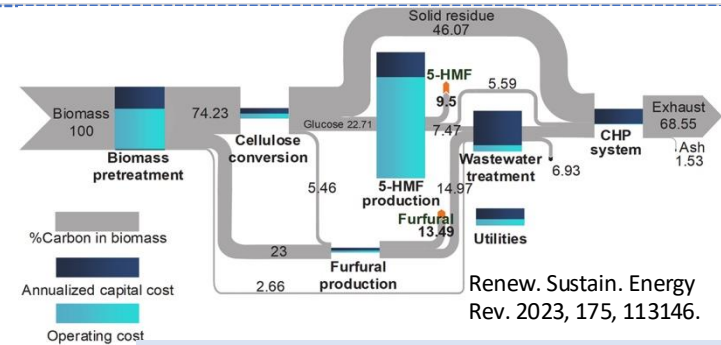
Education

- วศ.ด. (วิศวกรรมเคมี), จุฬาลงกรณ์มหาวิทยาลัย, ไทย, 2562
- วศ.บ. (วิศวกรรมเคมี), สถาบันเทคโนโลยีพระจอมเกล้าเจ้าคุณทหารลาดกระบัง, ไทย, 2556

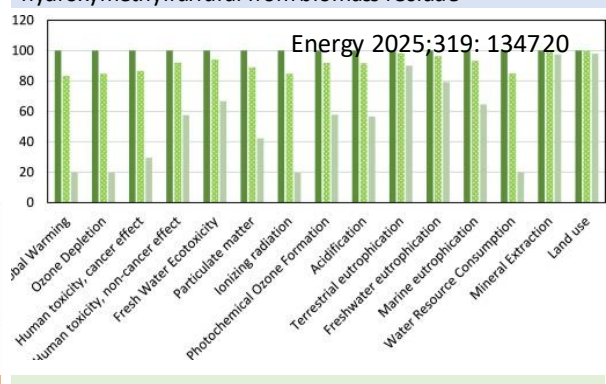
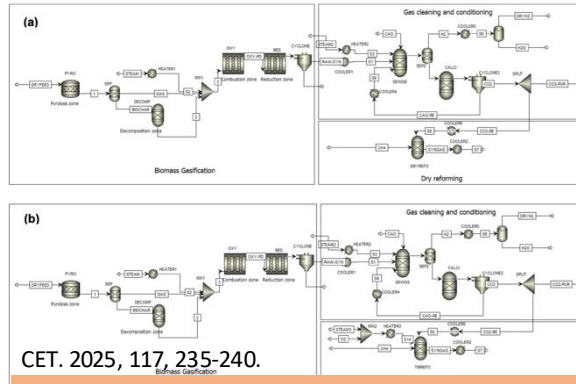
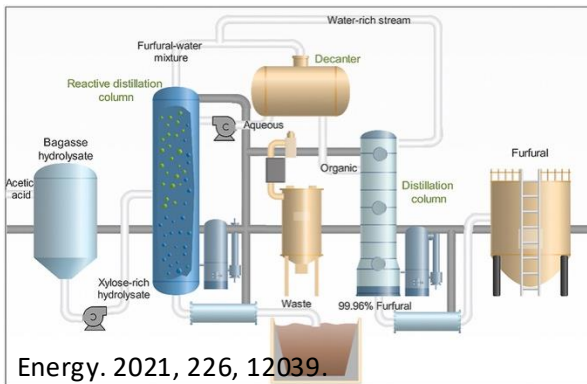
Research

Research area: Process Simulation & Optimization for Bioenergy and Biofuel

- Thermodynamic modeling of Biomass Conversion Technologies such as Hydrogen and Fuel Cell, Biorefinery, and CO₂ Utilization
- Techno-Economic Analysis (TEA) using Simulation Software
- Life cycle assessment
- Process Optimization



Comparative techno-economic and energy analyses of integrated biorefinery processes of furfural and 5-hydroxymethylfurfural from biomass residue



Analysis of biomass gasification (BG) and sorption enhanced water-gas shift (SEWGS) coupled with dry reformer (DR) (a) and tri-reformer (TR) (b)

Exergy and exergoeconomic analyses of sustainable furfural production via reactive distillation