

UNIVERSIDADE DE SÃO PAULO – ESCOLA POLITÉCNICA
Pós-Graduação: Engenharia Química, 3º Período 2023
PQI-5884: Programação Inteira Mista Aplicada à Otimização de Processos

Apresentações dos trabalhos finais

Dia 07/Dez 14:00-16:30

1) Guilherme Augusto Silva de Souza

A shortcut method for the preliminary synthesis of process-technology pathways: An optimization approach and application for the conceptual design of integrated biorefineries (2011)

<https://doi.org/10.1016/j.compchemeng.2011.04.013>

2) Enzo Sampronha

Optimization of multi-stage membrane systems for CO₂ capture from flue gas (2016)

<https://doi.org/10.1016/j.ijggc.2016.08.005>

3) Cybelle Akemi Suzuki Deganutti

Linear programming approach for optimal forest plantation (2017)

<https://doi.org/10.1007/s11676-016-0318-y>

4) Thaina de Carvalho e Souza

Linear programming approach for structure optimization of renewable-to-chemicals (R2Chem) production networks (2018)

<https://doi.org/10.1021/acs.iecr.7b05305>

5) Wellorzzon Novais

Three-step modification and optimization of Kalina power-cooling cogeneration based on energy, pinch, and economics analyses (2020)

<https://doi.org/10.1016/j.energy.2020.118069>

6) Valdeir Araújo de Abreu

Modeling and optimization of ionic liquid-based carbon capture process using a thin-film unit (2021)

<https://doi.org/10.1016/j.compchemeng.2021.107522>

Formato: 15 min apresentação + 5 min perguntas