Stanford

Dimitri Saad

Ph.D. Student in Energy Resources Engineering, admitted Autumn 2022

Bio

EDUCATION AND CERTIFICATIONS

- BE, American University of Beirut , Mechanical Engineering (2020)
- MSc, ETH Zürich , Process Engineering (2022)

LINKS

- LinkedIn Profile: https://www.linkedin.com/in/dimitrisaad/

Research & Scholarship

LAB AFFILIATIONS

- Ines Azevedo, INES (3/1/2023)
- Adam Brandt, EAO (1/1/2023)

Publications

PUBLICATIONS

- **Facility-level estimates of demand for industrial process heat in California** *ENVIRONMENTAL RESEARCH LETTERS*
  Saad, D. M., Brandt, A. R., Azevedo, I. M. L.
  2026; 21 (9)
- **Carbon Intensity of United States Natural Gas Supply.** *Environmental science & technology*
  Zhang, Z., Rutherford, J., Littlefield, J., Ramadan, F., Ali Saafi, M., Ren, B., Jabbar, M. Y., Saad, D. M., Burdeau, P. M., Masnadi, M. S., Brandt, A.
  2026
- **Appliance decarbonization and its impacts on California's energy transition** *APPLIED ENERGY*
  Sodwatana, M., Saad, D. M., Ahumada-Paras, M., Brandt, A. R.
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- **Energy storage in combined gas-electric energy transitions models: The case of California** *APPLIED ENERGY*
  Saad, D. M., Sodwatana, M., Sherwin, E. D., Brandt, A. R.
  2025; 385
- **The value of enhanced geothermal systems for the energy transition in California** *SUSTAINABLE ENERGY & FUELS*
  Aljubran, M. J., Saad, D. M., Sodwatana, M., Brandt, A. R., Horne, R. N.
  2025
- **Impact of Multi-sector Carbon Tax for Achieving Deep Decarbonization**
  Saad, D. M., Ahumada-Paras, M., Sodwatana, M., Brandt, A. R., IEEE

IEEE.2025

- **Life Cycle Economic and Environmental Assessment of Producing Synthetic Jet Fuel Using CO2/Biomass Feedstocks.** *Environmental science & technology*
  Saad, D. M., Terlouw, T., Sacchi, R., Bauer, C.
  2024

- **The need for speed - optimal CO2 hydrogenation processes selection via mixed integer linear programming** *COMPUTERS & CHEMICAL ENGINEERING*
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