



## Selected Publications.

- < -fuel Cracking Furnaces and Boilers Using CO2  
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- < Song Wang, Dan Fernandes, Qiang Xu\*, and Daniel Chen, "New Conceptual Design of an Integrated Allam-Cycle Power Complex Coupling Air Separation Unit and Ammonia Plant," *Ind. Eng. Chem. Res.* 2021, December 3, 2021, <https://doi.org/10.1021/acs.iecr.1c02478>
- < Dan Fernandes, Md Emdadul Haque, Srinivas Palanki, Samuel Guizar Rios, Daniel Chen, "DMC Controller Design for an Integrated Allam Cycle and Air Separation Plant," *Computers and Chemical Engineering* 141 (2020) 107019, <https://doi.org/10.1016/j.compchemeng.2020.107019>
- < Arokiaraj Alphones, Vijaya Damodara, Anan Wang, Helen Lou, Xianchang Li, Christopher Martin, Daniel Chen, and Matthew Johnson., "Response Surface Modeling and Setpoint Determination of Steam- and Air-Assisted Flares," *Environmental Engineering Science*. Vol 37, No. 4, Apr 2020. 246-262.
- < Cyc  
*Engineering*, 7 December 2019, <https://doi.org/10.1155/2019/6035856>
- < Dan Fernandes, Song Wang, Qiang Xu, Russel Buss and Daniel Chen, "Process and Carbon Footprint Analyses of the Allam Cycle Power Plant Integrated with an Air Separation Unit,"

- < Evaluating Various LNG Plant Electrification Options  
Center for Midstream Management & Science, \$34,000, 09/01/22 -08/31/23.
- <
- Project 366, \$25,000, 09/01/21 -02/28/22.
- < Dan -LNG Complex for  
Science, Project 364, \$50,000, 09/01/21 -08/31/22.
- < Chen, D.H. & X. LI, "Development of Reduced Combustion Reaction Mechanisms of the  
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