Yueming Yang

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PROFESSIONAL SUMMARY

Yueming Yang research interests are the computational fluid dynamics; the design, simulation, and optimization of supercritical CO_2 (SCO_2) radial inflow turbines and centrifugal compressors; physical properties of working fluids in SCO_2 power cycles; and modeling of fluid- and thermo- dynamic systems (mainly the SCO_2 Brayton cycles).

EDUCATION

College of Mechanical and Electronic Engineering, Shandong University of Science and Technology Qingdao
Bachelor's Degree in Engineering September 2016 – June 2020

- Cumulative GPA: 3.57 / 5.0 Ranking: 10 / 117
- Main Courses and Scores: Engineering Fluid Mechanics/90, Thermodynamic Engineering/91, Heat Transfer/81, Steam Turbine Principle/91, Boiler Principle/93, Heat Exchanger Principle and Design/87, Enhanced Heat Transfer Technology/96

School of Energy and Power Engineering, Shandong University Jinan
Master's Degree in Engineering September 2020 – now

- Main Courses and Scores: Engineering Mathematics/73, Computational Fluid Dynamics/93, Advanced Fluid Mechanics/86

PUBLICATIONS AND ARTICLES SUBMITTED

- **Yueming Y**, Bingkun M A, Yongqing X, Jianhui Q*. **Influence of Different Equations of State on Simulation Results of Supercritical CO_2 Centrifugal Compressor**[J]. *Mechanical Engineering Science*, 2021, 3(2): 25-33.
- **YANG Yue-ming**, QIN Kan, QI Jian-hui*, et al. **Performance of Supercritical CO_2 Radial Turbine for Gas Turbine Waste Heat Recovery System**[J]. *Journal of Propulsion Technology*, 2022, 43(10): 192-204.
- **Yueming Yang**, Jianhui Q*, Kamel Hooman, et al. **Effect of CO_2-based Binary Mixtures on the Performance of Radial-Inflow Turbines for the Supercritical CO_2 Cycles**[J]. *Energy*, Jul 02, 2022 submitted (Under Review)
- Jianhui Qi*, **Yueming Yang**, Kuihua Han, et al. **Design Space Analysis for Supercritical CO_2 Radial Inflow Turbine Stators**[J]. *Thermal Science and Engineering Progress*, May 16, 2022 submitted (Under Review)

ACADEMIC CONFERENCE

Chinese Society of Engineering Thermophysics -- Thermal Engine Aerodynamic Thermodynamics and Fluid Machinery Academic Conference 2022

- Make an oral presentation on the topic: Simulation of Cascade Passage Loss Mechanism in SCO_2 Radial Turbine.

Chinese Society for Electrical Engineering -- 2nd Supercritical CO_2 Power Cycle Symposium 2022

- Make an oral presentation on the topic: Research on CO_2-based Binary Mixtures and Loss Mechanism for SCO_2 Turbomachinery

ADDITIONAL INFORMATION

LANGUAGE: Chinese (Native); English—IELTS 6: Listing 5.5; Reading 6.5; Writing 6; Speaking 5.5.
PROGRAMMING LANGUAGE: Proficient in Python, solved SCO_2 physical property acquisition and other related issues.
SOFTWARE USAGE: Proficient in ANSYS; extensive Creo (PRO/E); familiar with OpenFOAM, et al.
PROJECT EXPERIENCES: Participate in multiple vertical themes and horizontal projects.
VOLUNTEER SERVICE: Over 200 hours of volunteer work during graduate study.