

Yueming Yang

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PROFESSIONAL SUMMARY

Yueming Yang research interests are the design and optimization of supercritical CO₂ radial inflow turbines; turbomachinery (axial and radial) for energy conversion and propulsion; modeling of fluid- and thermo- dynamic systems (mainly the SCO₂ Brayton cycles); and physical properties of working fluid in circulation system (mainly the SCO₂ power 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 CO₂ Centrifugal Compressor**[J]. Mechanical Engineering Science, 2021, 3(2): 25-33.
- **YANG Yue-ming**, QIN Kan, QI Jian-hui*, et al. **Performance of Supercritical CO₂ Radial Turbine for Gas Turbine Waste Heat Recovery System**[J]. Journal of Propulsion Technology, 2022, 10(10) (Accepted)
- **Yueming Yang**, Jianhui Q*, Kamel Hooman, et al. **Effect of CO₂-based Binary Mixtures on the Performance of Radial-Inflow Turbines for the Supercritical CO₂ Cycles**[J]. Energy, Jul 02, 2022 submitted (Under Review)
- Jianhui Qi*, **Yueming Yang**, Kuihua Han, et al. **Design Space Analysis for Supercritical CO₂ Radial Inflow Turbine Stators**[J]. Thermal Science and Engineering Progress, May 16, 2022 submitted (Under Review)
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ACADEMIC CONFERENCE

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

- An oral presentation was given on the topic: Simulation of Cascade Passage Loss Mechanism in Supercritical CO₂ Radial Turbine.

Chinese Society for Electrical Engineering -- 2nd Supercritical CO₂ Power Cycle Symposium 2022

- An oral presentation was given on the topic: Research on CO₂-based Binary Mixtures and Loss Mechanism for Supercritical CO₂ Turbomachinery

ADDITIONAL INFORMATION

LANGUAGE SCORE (IELTS): Overall Band Score 6; Listing 5.5; Reading 6.5; Writing 6; Speaking 5.5.

PROGRAMMING LANGUAGE: Proficient in Python, had solved SCO₂ physical property acquisition and other related issues.

PROJECT EXPERIENCES: Participate in multiple vertical themes and horizontal projects.

VOLUNTEER SERVICE: Over 200 hours of volunteer work during graduate study.