

## **Personal Information**

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## **International Researcher IDs**

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## **Education**

Doctorate, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, Turkey  
2022 - Continues

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Turkey 2019 - 2022

Undergraduate Double Major, Firat University, Faculty Of Engineering, Department Of Electrical And Electronics  
Engineering, Turkey 2013 - 2017

Undergraduate, Firat University, Faculty Of Engineering, Department Of Mechanical Engineering, Turkey 2011 - 2015

## **Research Areas**

Mechanical Engineering, Energy, Conventional Energy Systems and Their Technology, Alternative Energy Resources,  
Solar energy, Thermodynamics

## **Academic Positions**

Research Assistant, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical  
Engineering, 2020 - Continues

## **Journal articles indexed in SCI, SSCI, and AHCI**

- I. **Development of an integrated energy system with CO<sub>2</sub> capture and utilization in an industrial setting for clean hydrogen and methanol**  
AKGÜN İ., DİNCER İ.  
Energy, vol.320, 2025 (SCI-Expanded)
- II. **Development of a smart powering system with ammonia fuel cells and internal combustion engine for submarines**  
AKGÜN İ., DİNCER İ.  
Energy, vol.294, 2024 (SCI-Expanded)

## **Papers Presented at Peer-Reviewed Scientific Conferences**

- I. **AN INTEGRATED FACILITY FOR MULTIPLE USEFUL OUTPUTS WITH CO<sub>2</sub> CAPTURE AND UTILIZATION IN STEEL INDUSTRY**

Akgün İ., Dinçer İ.

12th Global Conference on Global Warming (GCGW-2024), Şanlıurfa, Turkey, 16 - 19 May 2024, pp.82-84, (Full Text)

**II. A SYSTEM DESIGN FOR CO<sub>2</sub> CAPTURE WITH HYDROGEN AND METHANOL PRODUCTION IN A CEMENT PLANT**

Akgün İ., Dinçer İ.

8th International Hydrogen Technologies Congress (IHTEC-2024), Diyarbakır, Turkey, 12 - 15 May 2024, pp.694-696

**III. DEVELOPMENT OF A HYBRID POWERING SYSTEM WITH AMMONIA FUEL CELLS AND INTERNAL COMBUSTION ENGINE FOR SUBMARINES**

AKGÜN İ., DİNCER İ.

14th INTERNATIONAL CONFERENCE ON HYDROGEN PRODUCTION (ICH2P-2023), Qatar, 19 - 21 December 2023

**IV. Thermo-economic investigation of power generation using micro steam turbines in industrial facilities**

Akgün İ., Pusat Ş., Erdem H. H.

International Joint Conference on Engineering, Science and Artificial Intelligenc, 15 - 17 June 2022, pp.83-90

**V. THE CHANGES IN ELECTRICITY CONSUMPTION RELATED TO COVID-19 OUTBREAK AND ITS ENVIRONMENTAL EFFECTS**

Akgün İ., Yumurtacı Z., İşleyen A., Agbaje M. A.

6TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 20 - 22 December 2021, pp.1802-1812, (Full Text)

**VI. ELECTRIC PRODUCTION BY MEANS OF SOLAR HEAT FOR THE CITY OF ELAZIĞ IN TURKEY**

Akgün İ., Yalabık A., Akça B., Tuzcu C. B., Tüzen A.

5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 17 - 19 December 2019, pp.1918-1932

## Metrics

Publication: 8

## Non Academic Experience

Municipality, İBB , Altyapı Projeler Müdürlüğü, Makine Mühendisi