

## Res. Asst. AYŞE CANDAN CANDERE

### Personal Information

Office Phone: [+90 462 377 2901](tel:+904623772901) Extension: 2901

Email: [aysecandan@ktu.edu.tr](mailto:aysecandan@ktu.edu.tr)

### International Researcher IDs

ORCID: 0000-0002-7101-0033

Yoksis Researcher ID: 240444

### Education Information

Doctorate, Karadeniz Technical University, -, Makina Mühendisliği, Turkey 2017 - Continues

Postgraduate, Karadeniz Technical University, Mühendislik Fakültesi/Fen Bilimleri Enstitüsü, Makina Mühendisliği, Turkey 2014 - 2017

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği, Turkey 2009 - 2014

### Foreign Languages

English, B2 Upper Intermediate

### Research Areas

Mechanical Engineering, Thermodynamics, Engineering and Technology

### Academic Titles / Tasks

Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2015 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A novel fabrication method for polymeric flat plate pulsating heat pipe via additive manufacturing**  
CANDAN CANDERE A., Miché N., Bernagozzi M., SAĞLAM M., Georgoulas A., AYDIN O., Marengo M.  
Applied Thermal Engineering, vol.241, 2024 (SCI-Expanded)
- II. **Effect of double cross sectional ratio on performance characteristics of pulsating heat pipes**  
MARKAL B., Candere A., AVCI M., AYDIN O.  
International Communications in Heat and Mass Transfer, vol.127, 2021 (SCI-Expanded)
- III. **Investigation of flat plate type pulsating heat pipes via flow visualization-assisted experiments: Effect of cross sectional ratio**  
MARKAL B., Candere A., AVCI M., AYDIN O.  
International Communications in Heat and Mass Transfer, vol.125, 2021 (SCI-Expanded)
- IV. **Flow boiling characteristics in a novel minichannel with a step on each corner**  
Markal B., Candan A., Aydın O.  
EXPERIMENTAL HEAT TRANSFER, vol.33, no.1, pp.1-17, 2020 (SCI-Expanded)

- V. **Prediction of Two-Phase Heat Transfer Coefficient of Flow Boiling in Minichannels**  
MARKAL B., Candan A., AYDIN O., Avci M.  
HEAT TRANSFER ENGINEERING, vol.41, no.1, pp.17-35, 2020 (SCI-Expanded)
- VI. **Experimental investigation of flow boiling in single minichannels with low mass velocities**  
Markal B., Candan A., AYDIN O., Avci M.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.98, pp.22-30, 2018 (SCI-Expanded)
- VII. **Saturated flow boiling characteristics in single rectangular minichannels: effect of aspect ratio**  
Candan A., MARKAL B., AYDIN O., Avci M.  
EXPERIMENTAL HEAT TRANSFER, vol.31, no.6, pp.531-551, 2018 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Minikanallarda Doymuş Kaynamalı Akış Karakteristiklerinin Deneysel İncelenmesi**  
CANDAN A., MARKAL B., AYDIN O., AVCI M.  
Tesisat Mühendisliği, no.164, pp.29-38, 2018 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **EFFECT OF FILLING RATIO ON THE WORKING PERFORMANCE OF PULSATING HEAT PIPE WITH NON-UNIFORM SECTION**  
Candan Candere A., Markal B., Avci M., Aydın O.  
ULUSLARARASI KATILIMLI 23. ISI BİLİMİ VE TEKİNİĞİ KONGRESİ, Gaziantep, Turkey, 8 - 10 September 2021, vol.2, pp.1797-1805
- II. **EXPERIMENTAL INVESTIGATION OF THE PULSATING HEAT PIPES HAVING LARGER FLOW SECTIONS IN THE EVAPORATOR REGION**  
Candan Candere A., Markal B., Aydın O., Avci M.  
5th International Anatolian Energy Symposium, Trabzon, Turkey, 24 - 25 March 2021, pp.630-636
- III. **Kesiti T-Şeklinde Olan Tek Bir Mini Kanalda Doymuş Kaynamalı Akış Karakteristiklerinin Deneysel İncelenmesi**  
MARKAL B., CANDAN A., AYDIN O.  
4. Uluslararası Katılımlı Anadolu Enerji Sempozyumu, Edirne, Turkey, 18 - 20 April 2018, vol.1, no.1, pp.561-572
- IV. **Flow Boiling Characteristics in a Single Rectangular Minichannel**  
MARKAL B., CANDAN A., AYDIN O., AVCI M.  
8th International Advanced Technologies Symposium, Elazığ, Turkey, 19 - 22 October 2017, pp.2075-2081
- V. **Kare Kesitli Mini Bir Kanal İçerisinde Kaynamalı Akışın Deneysel İncelenmesi**  
CANDAN A., MARKAL B., AYDIN O., AVCI M.  
21.Ulusal Isı Bilimi ve Tekniği Kongresi, Çorum, Turkey, 13 - 16 September 2017, pp.313-321

## Supported Projects

Markal B., Avci M., TUBITAK Project, Değişken Kanal Genişliğine Sahip Düz Plakalı Kapalı Döngülü Atımlı Isı Borularının Deneysel İncelenmesi, 2018 - 2020

Aydın O., Avci M., TUBITAK Project, Mikrokanal Akışlarında Kaynamada Isı Transferi ve Sistem Parametrelerinin Deneysel olarak İncelenmesi, 2013 - 2016

## Metrics

Publication: 13

Citation (WoS): 119

Citation (Scopus): 133

H-Index (WoS): 5

H-Index (Scopus): 5

## **Scholarships**

2214-A Yurt Dışı Doktora Sırası Araştırma Bursu, TUBİTAK, 2022 - 2023