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Personal Information

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International Researcher IDs

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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)

Papers Published in Refereed Scientific Meetings

- I. **FLEXIBLE POLYMERIC PULSATING HEAT PIPES: FABRICATION TECHNIQUES AND THERMAL PERFORMANCE INVESTIGATION**
Miche N., Candan Candere A., Clemens F., Bernagozzi M., Georgoulas ., Bertola ., Aydın O., Marengo M.
18th UK Heat Transfer Conference, Birmingham, England, 9 - 11 September 2024, pp.1-3
- II. **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
- III. **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
- IV. **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
- V. **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
- VI. **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: 14

Citation (WoS): 161

Citation (Scopus): 176

H-Index (WoS): 5

H-Index (Scopus): 5

Scholarships

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