

Office Phone: [+90 462 377 2965](tel:+904623772965)

Email: sonerbirinci@ktu.edu.tr

Web: <https://avesis.ktu.edu.tr/sonerbirinci>

International Researcher IDs

ORCID: 0000-0002-6668-5490

Publons / Web Of Science ResearcherID: ABI-2427-2020

ScopusID: 57219086672

Yoksis Researcher ID: 303855

Education Information

- I. Doctorate, Karadeniz Technical University, -, Makina Mühendisliği, Turkey 2019 - Continues
- II. Postgraduate, Karadeniz Technical University, -, Makina Mühendisliği, Turkey 2015 - 2019
- III. Undergraduate, Karadeniz Technical University, -, Makina Mühendisliği, Turkey 2011 - 2015

Foreign Languages

- I. English, B2 Upper Intermediate

Dissertations

- I. Postgraduate, TABANINA AYRIK ISI KAYNAKLARI YERLEŞTİRİLMİŞ DİKDÖRTGEN KESİTLİ YATAY BİR KANALDA KARMA TAŞINIM İLE ISI TRANSFERİNİN İNCELENMESİ, Karadeniz Technical University, -, Makina Mühendisliği, 2019

Research Areas

Mechanical Engineering, Thermodynamics, Engineering and Technology

Academic Titles / Tasks

- I. Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2019 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Thermal cycling performance of a Shell-and-tube latent heat thermal energy storage system with paraffin/graphite matrix composite**
SAĞLAM M., Ceboglu E., BİRİNCİ S., Sarper B., AYDIN O.
Journal of Energy Storage, vol.83, 2024 (SCI-Expanded)
- II. **The role of jet-to-crossflow velocity ratio on convective heat transfer enhancement in the cooling of**

discrete heating modules

Albayrak M., Sarper B., SAĞLAM M., BİRİNCİ S., AYDIN O.

THERMAL SCIENCE AND ENGINEERING PROGRESS, vol.37, 2023 (SCI-Expanded)

III. Constructal enhancement of cooling performance of local heating elements with different heat generation rates under free and mixed convection regimes

Sarper B., BİRİNCİ S., SAĞLAM M., AYDIN O.

INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.135, 2022 (SCI-Expanded)

IV. Effect of heaters' clearance on mixed convection cooling performance in a discretely heated horizontal duct

BİRİNCİ S., SAĞLAM M., Sarper B., AYDIN O.

International Journal of Thermal Sciences, vol.163, 2021 (SCI-Expanded)

V. Constructal design of heat sources with different heat generation rates for the hot spot mitigation

BİRİNCİ S., SAĞLAM M., Sarper B., AYDIN O.

INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.163, 2020 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. A numerical investigation on a liquid-cooled battery thermal management system: Effect of inlet temperature and flow rate

BİRİNCİ S., Albayrak M., Yazici M., Sarper B., AYDIN O.

9th European Thermal Sciences Conference, EURO THERM 2024, Bled, Slovenia, 10 - 13 June 2024, vol.2766

II. Experimental and numerical convective heat transfer performance analysis of a confined impinging round jet with triangular tabs under crossflow influence

Sağlam M., Birinci S., Sarper B., Aydın O.

9th European Thermal Sciences Conference, EURO THERM 2024, Bled, Slovenia, 10 - 13 June 2024, vol.2766

III. The influence of cold plate height on thermal management of a liquid-cooled battery pack

BİRİNCİ S., Albayrak M., SAĞLAM M., Sarper B., AYDIN O.

9th European Thermal Sciences Conference, EURO THERM 2024, Bled, Slovenia, 10 - 13 June 2024, vol.2766

IV. Numerical Investigation of the Thermal Performance of a Liquid Cooled Battery Pack

Birinci S., Sağlam M., Sarper B., Yazıcı M. Y., Aydın O.

9th International IFS and Contemporary Mathematics and Engineering Conference, Mersin, Turkey, 8 July - 11 October 2023, pp.183-184

V. EFFECT OF SURFACE RADIATION ON JET IMPINGEMENT COOLING OF A CONCAVE SURFACE

Albayrak M., Sarper B., Birinci S., Sağlam M., Aydın O.

Proceedings of CONV-22: Int. Symp. on Convective Heat and Mass Transfer, İzmir, Turkey, 5 - 10 June 2022, pp.512-522

VI. FORCED CONVECTION HEAT TRANSFER ENHANCEMENT IN A RECTANGULAR CHANNEL BY BIOMIMETIC CYLINDRICAL RIBS

Sağlam M., Birinci S., Sarper B., Aydın O.

23rd Congress on Thermal Science and Technology with International Participation, Gaziantep, Turkey, 8 - 10 September 2021, pp.1767-1773

VII. VALIDATION STUDY OF A NATURALLY VENTILATED SOLAR FACADE

Sarper B., Birinci S., Sağlam M., Aydın O.

5th International Anatolian Energy Symposium, Trabzon, Turkey, 24 - 25 March 2021, pp.239-248

VIII. NUMERICAL INVESTIGATION OF NATURALLY VENTILATED FACADE WITH PCM LOCATED IN MEDITERRANEAN REGION

Birinci S., Sağlam M., Sarper B., Yazıcı M. Y., Avcı M., Aydın O.

5th International Anatolian Energy Symposium, Trabzon, Turkey, 24 - 25 March 2021, pp.259-265

IX. EFFECT OF THE CLEARANCE BETWEEN HEATED BLOCKS ON OVERALL COOLING PERFORMANCE IN A

HORIZONTAL DUCT

Birinci S., Saęlam M., Sarper B., Aydın O.

INTERNATIONAL CONFERENCE ON ENERGY, ENVIRONMENT AND STORAGE OF ENERGY, ICEESEN 2020, Kayseri, Turkey, 19 - 21 November 2020, pp.260-267

X. EFFECT OF DIFFERENT CONFIGURATIONS OF INLET POSITIONS ON HEAT TRANSFER IN A DISCRETELY HEATED HORIZONTAL CHANNEL

Birinci S., Saęlam M., Sarper B., Aydın O.

22nd Congress on Thermal Science and Technology, ULIBTK'19 , Kocaeli, Turkey, 11 - 14 September 2019, vol.1, no.1, pp.526-532

XI. Ayrık Isı Kaynaklarıyla Isıtılan Düşey Kanalda Kaynak Dizilişlerinin Isı Transferine Etkisi SARPER B., SAęLAM M., birinci S., AYDIN O.

4. Uluslararası Katılımlı Anadolu Enerji Sempozyumu, Edirne, Turkey, 18 - 20 April 2018, pp.652-662

XII. DÜŞEY YÜZEYİNDE AYRIK ISI KAYNAKLARI BULUNAN KANALDA YÜZEY İŞİNİMİNİN ISI TRANSFERİNE ETKİSİ

SARPER B., BİRİNCİ S., SAęLAM M., AYDIN O., AVCI M.

13. ULUSAL TESİSAT MÜHENDİSLİęİ KONGRESİ, İzmir, Turkey, 19 - 22 April 2017, pp.1027-1036

Supported Projects

- I. Aydın O., Avcı M., TUBITAK Project, Hava ile Elektronik Soęutmada Optimum Geometri ve İşletme Parametrelerinin Araştırılması, 2014 - 2017

Metrics

Publication: 17

Citation (WoS): 23

Citation (Scopus): 30

H-Index (WoS): 3

H-Index (Scopus): 4

Coaching Duties

Refereeing Duties
