

## Assoc. Prof. SİBEL GÜNEŞ

### Personal Information

**Office Phone:** [+90 352 207 6666](tel:+903522076666) Extension: 32106

**Email:** [sgumus@erciyes.edu.tr](mailto:sgumus@erciyes.edu.tr)

**Web:** <http://aves.erciyes.edu.tr/sgumus/>

### International Researcher IDs

ORCID: 0000-0002-8962-3735

Yoksis Researcher ID: 187451

### Education Information

Doctorate, Erciyes University, Mühendislik Fakültesi, Makina Mühendisliği, Turkey 2003 - 2009

Postgraduate, Erciyes University, Mühendislik Fakültesi, Makina Mühendisliği, Turkey 2000 - 2002

Undergraduate, Erciyes University, Mühendislik Fakültesi, Makina Mühendisliği, Turkey 1996 - 2000

### Research Areas

Technical Sciences, Mechanical Engineering, Thermodynamics, Heat and Mass Transfer

### Academic Titles / Tasks

Associate Professor, Erciyes University, Mühendislik Fakültesi, Makina Mühendisliği, 2016 - Continues

Assistant Professor, Erciyes University, Mühendislik Fakültesi, Makina Mühendisliği, 2009 - 2016

Research Assistant, Erciyes University, Mühendislik Fakültesi, Makina Mühendisliği, 2001 - 2009

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

- I. **The optimization of the thermal and hydraulic characteristics of a tube with twisted tapes using Taguchi-based-AHP-TOPSIS approach**  
Keklikçioğlu O., Güneş S., Şenyiğit E., Akçadırcı E., Özceyhan V.  
Journal of Thermal Analysis and Calorimetry, pp.1-13, 2022 (Peer-Reviewed Journal)
- II. **AN EXPERIMENTAL STUDY ON HEAT TRANSFER INTENSIFICATION BY LOOSE-FIT TWISTED TAPES WITH TRAPEZOIDAL WINGS**  
Keklikçioğlu O., Güneş S., Özceyhan V., Akçadırcı E.  
Heat Transfer Research, pp.1-10, 2022 (Peer-Reviewed Journal)
- III. **Optimization of heat transfer and pressure drop in a tube with loose-fit perforated twisted tapes by Taguchi method and grey relational analysis**  
GÜNEŞ S., ŞENYİĞİT E., KARAKAYA E., ÖZCEYHAN V.  
Journal of Thermal Analysis and Calorimetry, vol.136, no.4, pp.1795-1806, 2019 (Peer-Reviewed Journal)
- IV. **EXPERIMENTAL INVESTIGATION ON HEAT TRANSFER ENHANCEMENT WITH LOOSE-FIT PERFORATED TWISTED TAPES**  
Güneş S., Karakaya E.  
HEAT TRANSFER RESEARCH, vol.50, no.9, pp.821-837, 2019 (Peer-Reviewed Journal)

- V. **Thermal Characteristics in a Tube With Loose-Fit Perforated Twisted Tapes**  
GÜNEŞ S., KARAKAYA E.  
HEAT TRANSFER ENGINEERING, vol.36, no.18, pp.1504-1517, 2015 (Peer-Reviewed Journal)
- VI. **Experimental Investigation of Thermal Performance in a Tube With Detached Circular Ring Turbulators**  
Buyukalaca O., ÖZCEYHAN V., GÜNEŞ S.  
HEAT TRANSFER ENGINEERING, vol.33, no.8, pp.682-692, 2012 (Peer-Reviewed Journal)
- VII. **A Taguchi approach for optimization of design parameters in a tube with coiled wire inserts**  
GÜNEŞ S., Manay E., ŞENYİĞİT E., ÖZCEYHAN V.  
APPLIED THERMAL ENGINEERING, vol.31, pp.2568-2577, 2011 (Peer-Reviewed Journal)
- VIII. **Heat transfer enhancement in a tube with equilateral triangle cross sectioned coiled wire inserts**  
GÜNEŞ S., ÖZCEYHAN V., Buyukalaca O.  
EXPERIMENTAL THERMAL AND FLUID SCIENCE, vol.34, no.6, pp.684-691, 2010 (Peer-Reviewed Journal)
- IX. **The experimental investigation of heat transfer and pressure drop in a tube with coiled wire inserts placed separately from the tube wall**  
GÜNEŞ S., ÖZCEYHAN V., Buyukalaca O.  
APPLIED THERMAL ENGINEERING, vol.30, no.13, pp.1719-1725, 2010 (Peer-Reviewed Journal)
- X. **Flow past an oscillating circular cylinder in a channel with an upstream splitter plate**  
Çelik B., Akdağ Ü., GÜNEŞ S., Beşkök A.  
PHYSICS OF FLUIDS, vol.20, no.10, 2008 (Peer-Reviewed Journal)
- XI. **Heat transfer enhancement in a tube using circular cross sectional rings separated from wall**  
ÖZCEYHAN V., GÜNEŞ S., BÜYÜKALACA O., ALTUNTOP N.  
APPLIED ENERGY, vol.85, no.10, pp.988-1001, 2008 (Peer-Reviewed Journal)

## Articles Published in Other Journals

- I. **ANN: Prediction of Heat Transfer and Flow Characteristics of a Tube with Modified Twisted Tapes**  
Durmuşoğlu A., GÜNEŞ S., Özaşır E.  
International Scientific and Vocational Studies Journal, vol.4, no.1, pp.12-20, 2020 (Peer-Reviewed Journal)
- II. **İçerisine Delikli Şerit Eleman Yerleştirilen Borudaki Isı Transferi ve Akış Karakteristiklerinin YSA ile Tahmini**  
Durmuşoğlu A., GÜNEŞ S., KARAKAYA E.  
Uluslararası Doğu Anadolu Fen Mühendislik ve Tasarım Dergisi, vol.1, no.2, pp.246-259, 2019 (Peer-Reviewed Journal)
- III. **Thermal Performance of a Tube Equipped with V-nozzle Turbulator Inserts**  
GÜNEŞ S., KEKLİKCİOĞLU O., DAĞDEVİR T., ÖZCEYHAN V.  
Mehmet Akif Ersoy Üniversitesi Uygulamalı Bilimler Dergisi, vol.2, no.1, pp.42-54, 2018 (Peer-Reviewed Journal)
- IV. **NUMERICAL ANALYSIS OF HEAT TRANSFER ENHANCEMENT IN CONICAL-NOZZLE TURBULATORS INSERTED TUBE**  
GÜNEŞ S., DAĞDEVİR T., KEKLİKCİOĞLU O., ÖZCEYHAN V.  
e-Journal of New World Sciences Academy, vol.13, no.1, pp.7-17, 2018 (Peer-Reviewed Journal)
- V. **İKLİMLENDİRME SİSTEMLERİNİN İNSAN KONFORUÜZERİNDEKİ ETKİLERİ**  
TURGUT B., GÜNEŞ S., ALTUNTOP N.  
mesleki bilimler dergisi, vol.6, no.3, pp.303-308, 2017 (Peer-Reviewed Journal)
- VI. **SOĞUTUCU AKIŞKAN SEÇİMİ VE YENİ NESİL SOĞUTUCUAKIŞKANLAR**  
TURGUT B., GÜNEŞ S., ALTUNTOP N.  
mesleki bilimler dergisi, vol.6, no.3, pp.309-314, 2017 (Peer-Reviewed Journal)
- VII. **Numerical Investigation of Heat Transfer Enhancement in a Tube with Hexagonal Cross Sectioned Coiled Wire**  
GÜNEŞ S., ÖZCEYHAN V., DAĞDEVİR T., KEKLİKCİOĞLU O.

- International Journal of Mechanical and Production Engineering, vol.5, pp.96-100, 2017 (Peer-Reviewed Journal)
- VIII. **Yatay Mantolu Sıcak Su Tanklarında Tank Tasarımının Tankın Isıl Performansı Üzerindeki Etkisinin Manto ile İç Tank Arasındaki Isı Transferi Yüzey Alanı Sabit Olacak Şekilde İncelenmesi**  
TURGUT B., ERDEMİR D., GÜNEŞ S., ALTUNTOP N.  
Mesleki Bilimler Dergisi (MBD), vol.6, no.3, pp.294-302, 2017 (Peer-Reviewed Journal)
- IX. **Isıl Sistemlerin Senkronizasyonu**  
ÖZCEYHAN V., GÜNEŞ S.  
Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.33, no.3, pp.54-60, 2017 (Peer-Reviewed Journal)
- X. **Edge length effect of bluff bodies on flow structure**  
Manay E., ÖZCEYHAN V., Şahin B., GÜNEŞ S.  
International Journal of Automotive and Mechanical Engineering, vol.9, no.1, pp.1793-1801, 2014 (Peer-Reviewed Journal)
- XI. **The Prediction of Heat Transfer and Fluid Characteristics for Equilateral Triangular Bodies in Tandem Arrangement by Artificial Neural Networks**  
Manay E., GÜNEŞ S., akçadırcı e., ÖZCEYHAN V., çakır u., çomaklı ö.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.25, pp.505-508, 2012 (Peer-Reviewed Journal)
- XII. **Güneş enerjili sıcak su tankı içerisine yerleştirilen engellerin geometrilerinin ve konumlarının sıcaklık üzerindeki etkilerinin incelenmesi**  
Altuntop N., Özceyhan V., Tekin Y., Güneş S.  
Mühendis ve Makina, no.584, pp.9-17, 2008 (Peer-Reviewed Journal)
- XIII. **ALTUNTOP N., ÖZCEYHAN V., TEKİN Y., GÜNEŞ S**  
ALTUNTOP N., ÖZCEYHAN V., TEKİN Y., GÜNEŞ S.  
Mühendis ve Makina, vol.49, no.584, pp.9-17, 2008 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **ANN models for estimation heat transfer and flow characteristics of a tube with modified twisted tapes**  
Durmuşoğlu A., Güneş S., Özaşır E.  
3. INTERNATIONAL SCIENTIFIC AND VOCATIONAL STUDIES CONGRESS – ENGINEERING, Nevşehir, Turkey, 27 - 29 June 2019
- II. **ANN: Prediction of heat transfer and fluid characteristics of a tube with loose-fit perforated twisted tapes**  
Durmuşoğlu A., Güneş S., Karakaya E.  
3. INTERNATIONAL SCIENTIFIC AND VOCATIONAL STUDIES CONGRESS – ENGINEERING, Nevşehir, Turkey, 27 - 29 June 2019
- III. **NUMERICAL INVESTIGATION OF PRESURE DROP AND HEAT TRANSFER IN A TUBE WITH AIRFOIL SHAPE DIMPLE**  
KEKLİKCİOĞLU O., DAĞDEVİR T., GÜNEŞ S., ÖZCEYHAN V.  
II. International Scientific and Vocational Studies Congress, 5 - 08 July 2018
- IV. **EXPERIMENTAL AND NUMERICAL INVESTIGATION OF HEAT TRANSFER ENHANCEMENT IN A TUBE WITH GO-WATER NANOFLUID FOR VARIOUS WEIGHT FRACTIONS**  
KEKLİKCİOĞLU O., DAĞDEVİR T., ÖZCEYHAN V., GÜNEŞ S.  
II. International Scientific and Vocational Studies Congress, 5 - 08 July 2018
- V. **EXPERIMENTAL AND NUMERICAL INVESTIGATION OF THE EFFECT OF USING WATER-TIO<sub>2</sub> NANOFLUID INTO THE HORIZONTAL TUBE UNDER CONSTANT HEAT FLUX ON HEAT TRANSFER AND PRESSURE DROP**  
DAĞDEVİR T., KEKLİKCİOĞLU O., ÖZCEYHAN V., GÜNEŞ S.  
II. International Scientific and Vocational Studies Congress, 5 - 08 July 2018
- VI. **NUMERICAL ANALYSIS OF THERMAL STRESSES IN A PIPE INSTALLED WITH A CONICAL NOZZLE**

## **TURBULATOR**

Güneş S., Özceyhan V., Keklikcioğlu O., Dağdevir T.

II. International Scientific and Vocational Studies Congress, Nevşehir, Turkey, 5 - 08 July 2018

- VII. **NUMERICAL INVESTIGATION OF PLACING DIMPLED WITH VARIOUS PITCH LENGTHS EFFECT ON HEAT TRANSFER**  
DAĞDEVİR T., KEKLİKCİOĞLU O., ÖZCEYHAN V., GÜNEŞ S.  
II. International Scientific and Vocational Studies Congress, 5 - 08 July 2018
- VIII. **AFTERBURNER EFFECT ON THE ENERGETIC AND EXERGETIC PERFORMANCE OF J79-GE-17 ENGINE WITH AFTERBURNER SYSTEM USED ON F-4 PHANTOM II AIRCRAFTS**  
BALLI Ö., ADAK İ., GÜNEŞ S.  
International Symposium on Sustainable Aviation 2017, 10 - 13 September 2017
- IX. **YATAY MANTOLU SICAK SU TANKLARINDA TANK TASARIMININ TANKIN ISIL PERFORMANSI ÜZERİNDEKİ ETKİSİNİN MANTO İLE İÇ TANK ARASINDAKİ ISI TRANSFERİ YÜZEY ALANI SABİT OLACAK ŞEKİLDE İNCELENMESİ**  
TURGUT B., ERDEMİR D., GÜNEŞ S., ALTUNTOP N.  
International Vocational Science Symposium, Antalya, Turkey, 18 - 20 October 2017, pp.189-190
- X. **İKLİMLENDİRME SİSTEMLERİNİN İNSAN KONFORU ÜZERİNDEKİ ETKİLERİ**  
TURGUT B., GÜNEŞ S., ALTUNTOP N.  
International Vocational Science Symposium, Antalya, Turkey, 18 - 20 October 2017, pp.188-189
- XI. **SOĞUTUCU AKIŞKAN SEÇİMİ VE YENİ NESİL SOĞUTUCU AKIŞKANLAR**  
TURGUT B., GÜNEŞ S., ALTUNTOP N.  
International Vocational Science Symposium, Antalya, Turkey, 18 October - 20 November 2017
- XII. **NUMERICAL INVESTIGATION OF HEAT TRANSFER ENHANCEMENT IN A TUBE WITH HEXAGONAL CROSSSECTIONED COILED WIRE**  
GÜNEŞ S., ÖZCEYHAN V., DAĞDEVİR T., KEKLİKCİOĞLU O.  
International Academy of Science, Technology, Engineering and Management, 23 - 24 August 2017
- XIII. **Numerical Analysis of Heat Transfer Enhancement in Conical-nozzle Turbulators Inserted Tube**  
GÜNEŞ S., DAĞDEVİR T., KEKLİKCİOĞLU O., ÖZCEYHAN V.  
I. International Scientific and Vocational Studies Congress, Nevşehir, Turkey, 5 - 08 October 2017, pp.1-10
- XIV. **Thermal Performance of a Tube Equipped with V-nozzle Turbulator Inserts**  
GÜNEŞ S., KEKLİKCİOĞLU O., DAĞDEVİR T., ÖZCEYHAN V.  
I. International Scientific and Vocational Studies Congress, Nevşehir, Turkey, 5 - 08 October 2017
- XV. **A CFD ANALYSIS ON HEAT TRANSFER AND FRICTION FACTOR CHARACTERISTICS IN A TUBE WITH TWISTED TAPES INSTALLED WITH A SEPARATION FROM THE INNER TUBE WALL**  
GÜNEŞ S., KEKLİKCİOĞLU O.  
SEEP 2016, Kayseri, Turkey, 22 - 25 September 2016, pp.609-614
- XVI. **Numerical Investigation Of Heat Transfer Enhancement And Pressure Drop In Heat Exchanger Tube Fitted With Dual Twisted Tape Elements**  
ERDEMİR D., GÜNEŞ S., ÖZCEYHAN V., ALTUNTOP N.  
10th WSEAS International Conference on HEAT and MASS TRANSFER, Italy, 1 - 04 January 2013, pp.167-172
- XVII. **NUMERICAL INVESTIGATION OF THERMAL PERFORMANCE OF A TUBE FITTED WITH REGULARLY SPACED TWISTED TAPE ELEMENTS**  
GÜNEŞ S., ERDEMİR D., ÖZCEYHAN V., ALTUNTOP N.  
ASME Summer Heat Transfer Conference (SHTC), Rio-Grande, Brazil, 8 - 12 July 2012, pp.61-69
- XVIII. **A Numerical Study of Heat Transfer and Pressure Drop in a Channel Flow Past Two Triangular Bodies Comparison of Tandem Staggered and Side By Side Arrangement**  
MANAY E., GÜNEŞ S., ÖZCEYHAN V., ÇOMAKLI Ö., ESRA A.  
International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT), Antalya, Turkey, 19 - 21 July 2010, pp.483-489
- XIX. **Research on the Effect of Gap Ratio Between Dual Triangular Blockages Over Flow Characteristics Using PIV**

MANAY E., GÜNEŞ S., ESRA A., ÖZCEYHAN V., ÇOMAKLI Ö.

International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT), Antalya, Turkey, 19 - 21 July 2010, pp.591-597

- XX. **Numerical analysis of heat transfer and pressure drop in a channel equipped with triangular bodies in side by side arrangement**  
MANAY E., GÜNEŞ S., ESRA A., ÖZCEYHAN V.  
The 2009 World Congress on Power and Energy Engineering, Cairo, Egypt, 5 - 08 October 2009
- XXI. **An Experimental Study of Fluid Behaviour in a Channel Flow Past Two Triangular Blockages Comparison of Tandem and Staggered Arrangement**  
MANAY E., GÜNEŞ S., ESRA A., ÖZCEYHAN V., ÇOMAKLI Ö.  
The Conference on Thermal and Environmental Issues in Energy Systems (ASME-ATI-UIT), Sorrento, Italy, 16 - 19 May 2010, vol.1, pp.1221
- XXII. **Bir kanal içerisinde zikzak olarak yerleştirilen üçgen kesitli elemanların ısı transferi ve akış karakteristikleri üzerine etkisinin incelenmesi**  
ÖZCEYHAN V., GÜNEŞ S., ESRA A., ALTUNTOP N.  
17. Ulusal Isı Bilimi ve Tekniği Kongresi, Sivas, Turkey, 24 - 27 June 2009, pp.715-720
- XXIII. **Bir kanal içerisinde ardışık olarak yerleştirilen üçgen kesitli elemanların ısı transferi ve akış karakteristikleri üzerine etkisinin incelenmesi**  
ÖZCEYHAN V., GÜNEŞ S., ESRA A., ALTUNTOP N.  
17. Ulusal Isı Bilimi ve Tekniği Kongresi, Sivas, Turkey, 24 - 27 June 2009, pp.709-714
- XXIV. **NUMERICAL STUDY OF HEAT TRANSFER AND PRESSURE IN SEMI ELLIPTICAL CROSS SECTIONED RIBS INSERTED TUBE**  
ÖZCEYHAN V., GÜNEŞ S., BÜYÜKALACA O., ALTUNTOP N.  
PROCEEDINGS OF 6TH ICCHMT, Guangzhou, China, 18 - 21 May 2009, pp.509-511
- XXV. **A numerical investigation of heat transfer enhancement in a wavy tube**  
ÖZCEYHAN V., GÜNEŞ S.  
Proceedings of the Fourth International Exergy, Energy and Environment Symposium, Sharjah, United Arab Emirates, 19 - 23 April 2009
- XXVI. **An experimental and numerical investigation of thermal stratification in a hot water storage tank**  
ALTUNTOP N., ÖZCEYHAN V., TEKİN Y., GÜNEŞ S.  
Proceedings of the Fourth International Exergy, Energy and Environment Symposium, Sharjah, United Arab Emirates, 19 - 23 April 2009
- XXVII. **HEAT TRANSFER ENHANCEMENT IN A TUBE USING TRIANGULAR RIBS**  
ÖZCEYHAN V., GÜNEŞ S.  
ASME Heat Transfer Summer Conference, Florida, United States Of America, 10 - 14 August 2008, pp.485-491
- XXVIII. **THE EFFECT OF OBSTACLE GEOMETRY AND POSITION ON THERMAL STRATIFICATION IN SOLAR HOT WATER STORAGE TANKS**  
Altuntop N., Özceyhan V., Tekin Y., Güneş S.  
ASME Heat Transfer Summer Conference, Florida, United States Of America, 10 - 14 August 2008, pp.479-484
- XXIX. **Rastgele adım metodu ile sürekli rejimde iletimle ısı transferi olan iki boyutlu levhada sıcaklık dağılımının hesaplanması**  
ÖZCEYHAN V., GÜNEŞ S.  
16. Ulusal Isı Bilimi ve Tekniği Kongresi, Kayseri, Turkey, 30 May - 02 June 2007, pp.789-793
- XXX. **SINIRLANDIRILMIŞ ÇARPAN JETTEKİ GEOMETRİK PARAMETRELERİN ISI TRANSFERİ ÜZERİNE ETKİSİNİN SAYISAL İNCELENMESİ**  
GÜNEŞ S., AKANSU Y. E.  
6. Havacılık Sempozyumu, Nevşehir, Turkey, 12 - 14 May 2006, pp.64-68
- XXXI. **Dairesel Serbest Jet Akımının Sıcak Tel Anemometresi ile Deneysel İncelenmesi**  
ÖZKILIÇ S., GÜNEŞ S.  
Kayseri 5. Havacılık Sempozyumu, Kayseri, Turkey, 13 - 14 May 2004, vol.108
- XXXII. **Sıcak Tel Probenin Kalibrasyonu ve Hata Analizi**

ÖZKILIÇ S., GÜNEŞ S.

14. Ulusal Isı Bilimi ve Tekniği Kongresi, Isparta, Turkey, 3 - 05 September 2003

## Supported Projects

GÜNEŞ S., ŞAFAK İ., Project Supported by Higher Education Institutions, Fonksiyonel Derecelendirilmiş Dairesel Kanatçıklar ile Isı Transferi İyileştirmenin Deneysel İncelenmesi, 2021 - Continues

GÜNEŞ S., GÜNEŞ R., TUBITAK Project, Doğal Konveksiyonla Isı Transferinde Yatay Bir Silindirde Fonksiyonel Derecelendirilmiş Dairesel Kanatçıkların Isıl Performansının Deneysel Olarak Araştırılması, 2021 - 2022

GÜNEŞ S., BAŞ H., ÖZCEYHAN V., ERDEMİR D., Manay E., Project Supported by Higher Education Institutions, Bir boru içerisine cidardan ayrık olarak yerleştirilen şerit elemanların ısı transferi ve basınç düşümüne etkisinin araştırılması, 2010 - 2013

TEKİN Y., GÜNEŞ S., Project Supported by Higher Education Institutions, BİR KANAL İÇERİSİNE ZİKZAK OLARAK YERLEŞTİRİLEN ÜÇGEN KESİTLİ KÜT CİSİMLERİN AKIŞ KARAKTERİSTİKLERİNİN BELİRLENMESİ, 2008 - 2010

ÇINAR G., GÜNEŞ S., Project Supported by Higher Education Institutions, BİR KANAL İÇERİSİNE ÜST-ÜSTE YERLEŞTİRİLEN ÜÇGEN KESİTLİ KÜT CİSİMLERİN AKIŞ VE ISI TRANSFERİ KARAKTERİSTİKLERİNİN BELİRLENMESİ, 2008 - 2010

ALTUNTOP N., GÜNEŞ S., ÖZCEYHAN V., Project Supported by Higher Education Institutions, BİR KANAL İÇERİSİNE ARDIŞIK OLARAK YERLEŞTİRİLEN ÜÇGEN KESİTLİ KÜT CİSİMLERİN ETKİLEŞİMLERİ İLE İZ BÖLGESİNDE MEYDANA GELEN GİRDAPLARIN GÖZLEMLENMESİ, 2008 - 2010

ÖZCEYHAN V., GÜNEŞ S., SEN M., Project Supported by Higher Education Institutions, ISIL SİSTEMLERİN SENKRONİZASYONU, 2007 - 2009

ÖZCEYHAN V., GÜNEŞ S., Project Supported by Higher Education Institutions, ÇEŞİTLİ İÇ ELEMAN YERLEŞTİRİLMİŞ KANALDA ISI TRANSFERİ VE AKIŞ KARAKTERİSTİKLERİNİN DENEYSEL VE SAYISAL OLARAK İNCELENMESİ, 2007 - 2009

## Metrics

Publication: 58

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