

## Assoc. Prof. RECEP EKİCİLER

### Personal Information

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### International Researcher IDs

ScholarID: V7iZ\_54AAAAJ

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Publons / Web Of Science ResearcherID: AAQ-2440-2020

ScopusID: 57205123997

Yoksis Researcher ID: 29572

### Education Information

Doctorate, Karabuk University, Mühendislik Fakültesi, Makina Mühendisliği, Turkey 2016 - 2022

Postgraduate, Karabuk University, Fen Bilimleri Enstitüsü, Makine Mühendisliği, Turkey 2014 - 2016

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 2008 - 2012

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Parabolik Oluk Tipi Güneş Kolektörlerinde Nanoakışkan Kullanımının Isıl Performansa Etkisinin Deneysel ve Sayısal İncelenmesi, Karabuk University, Eğitim Bilimleri Enstitüsü, Makine Mühendisliği, 2022

Postgraduate, Geri basamaklı bir mikrokanaal içerisindeki nanoakışkan akışı ve ısı transferinin sayısal olarak incelenmesi, Karabuk University, Arkeoloji, Makine Mühendisliği (YI) (Tezli), 2016

### Research Areas

Mechanical Engineering, Heat and Mass Transfer, Thermal Systems

### Academic Titles / Tasks

Associate Professor, Gazi University, Mühendislik Fakültesi, Makina Mühendisliği, 2024 - Continues

Assistant Professor, Gazi University, Mühendislik Fakültesi, Makina Mühendisliği, 2023 - 2024

Lecturer PhD, Gazi University, Mühendislik Fakültesi, Makina Mühendisliği, 2022 - 2023

Lecturer, Gazi University, Mühendislik Fakültesi, Makina Mühendisliği, 2018 - 2022

Research Assistant, Karabuk University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2014 - 2018

## Courses

Hidrolik Makinalar, Undergraduate, 2023 - 2024, 2022 - 2023  
GÜNEŞ ENERJİSİ UYGULAMALARI, Undergraduate, 2023 - 2024  
YÜKSEK LİSANS TEZİNE HAZIRLIK, Postgraduate, 2023 - 2024  
Mechanical Engineering Laboratory, Undergraduate, 2023 - 2024, 2022 - 2023  
ÖLÇME VE VERİ DEĞERLENDİRME, Undergraduate, 2023 - 2024  
GRADUATION DESIGN PROJECT I, Undergraduate, 2023 - 2024, 2022 - 2023  
Makina Mühendisliği Laboratuvarı, Undergraduate, 2022 - 2023  
GRADUATION DESIGN PROJECT II, Undergraduate, 2023 - 2024  
STAJ I, Undergraduate, 2023 - 2024  
BİTİRME TASARIM PROJESİ II, Undergraduate, 2023 - 2024, 2022 - 2023  
SUMMER PRACTICE I, Undergraduate, 2023 - 2024  
Introduction to Numerical Analysis, Undergraduate, 2022 - 2023

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

- I. **Influence of uniform wall corrugations on convective heat transfer through a convergent-divergent nozzle by using mono and hybrid nanofluids**  
EKİCİLER R.  
Journal of Thermal Analysis and Calorimetry, vol.149, no.4, pp.1565-1579, 2024 (SCI-Expanded)
- II. **Performing SiO<sub>2</sub>-MWCNT/water hybrid nanofluid with differently shaped nanoparticles to enhance first- and second-law features of flow by considering a two-phase approach**  
EKİCİLER R.  
Journal of Thermal Analysis and Calorimetry, vol.149, no.4, pp.1725-1744, 2024 (SCI-Expanded)
- III. **Analysis and Evaluation of the Effects of Uniform and Non-uniform Wall Corrugation in a Pipe Filled with Ternary Hybrid Nanofluid**  
EKİCİLER R.  
Arabian Journal for Science and Engineering, vol.49, no.2, pp.2681-2694, 2024 (SCI-Expanded)
- IV. **EFFICIENCY DETERMINATION OF SOLAR CHIMNEY POWER PLANT RETROFITTED WITH NOVEL FINNED COLLECTOR UNDER REAL-TIME SOLAR IRRADIANCE**  
Hasan I. S., Pazarlıoğlu H. K., ARSLAN K., EKİCİLER R.  
Heat Transfer Research, vol.55, no.4, pp.77-95, 2024 (SCI-Expanded)
- V. **EFFECT OF THE NANOFLUID FLOW AND EXTENDED SURFACES ON AN ABRUPT EXPANSION TUBE REGARDING THERMODYNAMIC IRREVERSIBILITY**  
Pazarlıoğlu H. K., EKİCİLER R.  
Heat Transfer Research, vol.55, no.1, pp.49-67, 2024 (SCI-Expanded)
- VI. **Exergetic, Energetic, and entropy production evaluations of parabolic trough collector retrofitted with elliptical dimpled receiver tube filled with hybrid nanofluid**  
Pazarlıoğlu H. K., EKİCİLER R., Arslan K., Adil Mohammed Mohammed N.  
Applied Thermal Engineering, vol.223, 2023 (SCI-Expanded)
- VII. **A comparative heat transfer study between monotype and hybrid nanofluid in a duct with various shapes of ribs**  
EKİCİLER R., Samet Ali Çetinkaya M.  
Thermal Science and Engineering Progress, vol.23, 2021 (SCI-Expanded)
- VIII. **NUMERICAL ANALYSIS OF EFFECT OF IMPINGING JET ON COOLING OF SOLAR AIR HEATER WITH LONGITUDINAL FINS**  
Pazarlıoğlu H. K., EKİCİLER R., Arslan K.  
HEAT TRANSFER RESEARCH, vol.52, no.11, pp.47-61, 2021 (SCI-Expanded)
- IX. **Effects of novel hybrid nanofluid (TiO<sub>2</sub>-Cu/EG) and geometrical parameters of triangular rib**

**mounted in a duct on heat transfer and flow characteristics**

EKİCİLER R.

JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.143, no.2, pp.1371-1387, 2021 (SCI-Expanded)

- X. **Effect of hybrid nanofluid on heat transfer performance of parabolic trough solar collector receiver**  
Ekiciler R., Arslan K., Turgut O., Kurşun B.  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.143, no.2, pp.1637-1654, 2021 (SCI-Expanded)
- XI. **Effect of shape of nanoparticle on heat transfer and entropy generation of nanofluid-jet impingement cooling**  
EKİCİLER R., Cetinkaya M. S. A., Arslan K.  
INTERNATIONAL JOURNAL OF GREEN ENERGY, vol.17, no.10, pp.555-567, 2020 (SCI-Expanded)
- XII. **HEAT TRANSFER ENHANCEMENT IN AN EQUILATERAL TRIANGULAR DUCT BY USING AN Al<sub>2</sub>O<sub>3</sub>/WATER NANOFLUID: EFFECT OF NANOPARTICLE SHAPE AND VOLUME FRACTION**  
EKİCİLER R., Cetinkaya M. S. A., ARSLAN K.  
HEAT TRANSFER RESEARCH, vol.51, no.8, pp.741-757, 2020 (SCI-Expanded)
- XIII. **Convective Heat Transfer Investigation of a Confined Air Slot-Jet Impingement Cooling on Corrugated Surfaces With Different Wave Shapes**  
EKİCİLER R., Cetinkaya M. S. A., ARSLAN K.  
JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME, vol.141, no.2, 2019 (SCI-Expanded)
- XIV. **ENTROPY GENERATION ANALYSIS OF FORCED CONVECTION FLOW IN A SEMICIRCULAR MICROCHANNEL WITH TiO<sub>2</sub>/WATER NANOFLUID**  
Kaya H., EKİCİLER R., ARSLAN K.  
HEAT TRANSFER RESEARCH, vol.50, no.4, pp.335-348, 2019 (SCI-Expanded)
- XV. **THE EFFECT OF VOLUME FRACTION OF SiO<sub>2</sub> NANOPARTICLE ON FLOW AND HEAT TRANSFER CHARACTERISTICS IN A DUCT WITH CORRUGATED BACKWARD-FACING STEP**  
EKİCİLER R., Aydeniz E., ARSLAN K.  
THERMAL SCIENCE, vol.22, 2018 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Application of nanofluid flow in entropy generation and thermal performance analysis of parabolic trough solar collector: experimental and numerical study**  
EKİCİLER R., Arslan K., TURGUT O.  
Journal of Thermal Analysis and Calorimetry, vol.148, no.14, pp.7299-7318, 2023 (Scopus)
- II. **Heat transfer enhancement of a slot-confined and submerged impinging jet utilizing lamina-shaped CoFe<sub>3</sub>O<sub>4</sub>/water nanofluid**  
EKİCİLER R.  
International journal of energy studies (Online), vol.8, no.2, pp.167-187, 2023 (Peer-Reviewed Journal)
- III. **Inclination Angles Effect on Heat Transfer and Turbulent Periodic Flow in a Duct-Mounted Flow-Inclined Baffles**  
Arslan K., EKİCİLER R., Onur N.  
Arabian Journal for Science and Engineering, 2023 (Scopus)
- IV. **Nanoakışkan Kullanılan U-Dönüştürücü Çift Borulu Isı Değiştiricisi Akışının Sayısal Analizi**  
KAYA H., EKİCİLER R.  
Selçuk-Teknik Dergisi, vol.19, no.3, pp.120-136, 2020 (Peer-Reviewed Journal)
- V. **Effects of SiO<sub>2</sub>/Water Nanofluid Flow in a Square Cross-Sectioned Curved Duct**  
EKİCİLER R., ARSLAN K.  
European Journal of Engineering and Natural Sciences, vol.3, no.2, pp.101-109, 2019 (Peer-Reviewed Journal)
- VI. **Energy and Exergy Analysis of a Novel Three-Stage Heat Pump Drying System.**  
EKİCİLER R.  
Bartın University International Journal of Natural and Applied Sciences, vol.2, no.1, pp.59-72, 2019 (Peer-Reviewed)

Journal)

- VII. **CFD ANALYSIS OF LAMINAR FORCED CONVECTIVE HEAT TRANSFER FOR TiO<sub>2</sub>/WATER NANOFLUID IN A SEMI-CIRCULAR CROSS-SECTIONED MICRO-CHANNEL**  
Kaya H., EKİCİLER R., ARSLAN K.  
JOURNAL OF THERMAL ENGINEERING, vol.5, no.3, pp.123-137, 2019 (ESCI)
- VIII. **A CFD INVESTIGATION OF Al<sub>2</sub>O<sub>3</sub>/WATER FLOW IN A DUCT HAVING BACKWARD-FACING STEP**  
EKİCİLER R., Aydeniz E., ARSLAN K.  
JOURNAL OF THERMAL ENGINEERING, vol.5, no.1, pp.31-41, 2019 (ESCI)
- IX. **Numerical Investigation of Forced Convective Fluid Flow of TiO<sub>2</sub>/R600a Nanorefrigerant in a Pipe**  
ARSLAN K., EKİCİLER R., ONUR N.  
Fıgıs İleri Mühendislik ve Arge Teknolojileri Dergisi, vol.4, no.20, pp.37-44, 2018 (Peer-Reviewed Journal)
- X. **Bir Hastanede Ameliyathane Klima Santrali Isıtma Hattının Ekserji Analizi**  
Altundağ A., GEDİK E., ERGÜN A., ARSLAN K., EKİCİLER R.  
Makine Teknolojileri Elektronik Dergisi, vol.12, no.4, pp.103-114, 2015 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Impact of Al<sub>2</sub>O<sub>3</sub>-Cu/Water Hybrid Nanofluid and Impinging Jet on Moving Plate at High Reynolds Numbers: A Numerical Study**  
EKİCİLER R.  
5 th International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 10 July 2023, vol.1, pp.535-540
- II. **EFFECT OF ROTATION SPEED AND HYBRID NANOFLUID ON HEAT AND FLOW CHARACTERISTICS IN A ROTATING CONCENTRIC ANNULAR PIPE**  
EKİCİLER R.  
Çankaya International Congress on Scientific Research, Ankara, Turkey, 10 April 2023
- III. **Numerical Investigation Of Zno-Water Nanofluid Flow In A Spiral Coil**  
TEPE T., ARSLAN K., EKİCİLER R.  
5TH INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES, PRAGUE, Czech Republic, 12 - 16 June 2019, vol.1, pp.335-344
- IV. **Effect of Nanoparticle Diameter on Nanofluid Turbulent Forced Convective Heat Transfer in a Square Cross-Sectioned Horizontal Channel**  
EKİCİLER R., TEKİR M., ARSLAN K.  
International Energy Systems Engineering Symposium, Karabük, Turkey, 2 - 04 November 2017
- V. **The Effect of Volume Fraction of SiO<sub>2</sub> Nanoparticle on Flow and Heat Transfer Characteristics in a Duct with Corrugated Backward-Facing Step**  
EKİCİLER R., AYDENİZ E., ARSLAN K.  
18th International Symposium on Thermal Science and Engineering of Serbia (SIMTERM 2017), Slovenia, 17 - 20 October 2017, vol.1, pp.450-462
- VI. **Numerical Simulation of Hybrid Nanofluid Flow In A Square Cross-Sectioned Horizontal Duct**  
TEKİR M., EKİCİLER R., ARSLAN K.  
18th International Symposium on Thermal Science and Engineering of Serbia (SIMTERM 2017), SOKOBANJA, Montenegro, 17 - 20 October 2017
- VII. **Analysis of Nanofluid Flow and Heat Transfer Over 2D Backward-Facing Step Having Obstacle—A Finite Volume Method**  
EKİCİLER R., DAVUT BUĞRA A., ARSLAN K.  
18th International Symposium on Thermal Science and Engineering of Serbia (SIMTERM 2017), SOKOBANJA, Montenegro, 17 - 20 October 2017
- VIII. **Effects of SiO<sub>2</sub>/Water Nanofluid Flow in a Square Cross-Sectioned Curved Duct**  
EKİCİLER R., ARSLAN K.

3rd International Conference on Engineering and Natural Science (ICENS 2017), Budapest, Hungary, 3 - 07 May 2017

**IX. Annual Enviroeconomic Analysis of A Solar Pv System In The Different Cities of Turkey**

ÖZALP M., BAYAT M., EKİCİLER R.

2nd International Conference On Viable Energy Trends (InVenT 2017), Helsinki, Finland, 28 - 30 April 2017, pp.119-127

**X. Numerical Analysis of SiO<sub>2</sub> Water Nanofluid Flow Over Backward Facing Step**

EKİCİLER R., ARSLAN K.

2nd International Conference on Engineering and Natural Science (ICENS 2016), 24 - 28 May 2016

**XI. Heat Transfer and Entropy Generation Analysis of Nanofluids Flow Over Backward Facing Step**

EKİCİLER R., ARSLAN K.

2nd International Conference on Engineering and Natural Science (ICENS 2016), 24 - 28 May 2016

**XII. TiO<sub>2</sub> SU NANOAKIŞKANININ 180 DERECELİK YATAY BİR EĞRİSEL KARE KESİTLİ KANAL İÇERİSİNDEKİ ZORLANMIŞ KONVEKSİYON AKIŞ VE ISI TRANSFERİNİN SAYISAL ANALİZİ**

EKİCİLER R., ARSLAN K., GEDİK E.

ULIBTK'15 20. Ulusal Isı Bilimi ve Tekniği Kongresi, Turkey, 2 - 05 September 2015

## Supported Projects

Ekiciler R., Arslan K., Project Supported by Higher Education Institutions, Parabolik Oluk Tipi Güneş Kolektörlerinde Nanoakışkanın Isı Transferine Etkisinin Deneysel ve Sayısal İncelenmesi, 2020 - 2022

Ekiciler R., Arslan K., Project Supported by Higher Education Institutions, Geri Basamaklı Bir Mikrokanal İçerisindeki Nanoakışkan Akışı ve Isı Transferinin Sayısal Olarak İncelenmesi, 2016 - 2016

## Memberships / Tasks in Scientific Organizations

Turkish Society of Thermal Sciences and Technology, Member, 2015 - Continues, Turkey

## Scientific Refereeing

Results in Physics, Journal Indexed in SCI-E, July 2023

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, Journal Indexed in SCI-E, June 2023

Thermal Science and Engineering Progress, Journal Indexed in SCI-E, June 2023

Thermal Science and Engineering Progress, Journal Indexed in SCI-E, June 2023

International journal of energy studies (Online), Other Indexed Journal, June 2023

Thermal Science and Engineering Progress, Journal Indexed in SCI-E, April 2023

MODERN PHYSICS LETTERS B, Journal Indexed in SCI-E, April 2023

Thermal Science and Engineering Progress, Journal Indexed in SCI-E, March 2023

INTERNATIONAL JOURNAL OF THERMAL SCIENCES, Journal Indexed in SCI-E, February 2023

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, Journal Indexed in SCI-E, February 2023

HELIYON, Journal Indexed in SCI-E, February 2023

INTERNATIONAL JOURNAL OF THERMAL SCIENCES, Journal Indexed in SCI-E, January 2023

SYMMETRY, Journal Indexed in SCI-E, January 2023

INTERNATIONAL JOURNAL OF THERMAL SCIENCES, Journal Indexed in SCI-E, January 2023

NUMERICAL HEAT TRANSFER; PART A: APPLICATIONS, Journal Indexed in SCI-E, January 2023

Thermal Science and Engineering Progress, Journal Indexed in SCI-E, January 2023

APPLIED SCIENCES, Journal Indexed in SCI-E, January 2023

Thermal Science and Engineering Progress, Journal Indexed in SCI-E, January 2023

Foundation, Türkiye Teknoloji Takımı, Turkey, January 2023

NUMERICAL HEAT TRANSFER; PART A: APPLICATIONS, Journal Indexed in SCI-E, December 2022

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, Journal Indexed in SCI-E, December 2022

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, Journal Indexed in SCI-E, November 2022

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, Journal Indexed in SCI-E, November 2022

Thermal Science and Engineering Progress, Journal Indexed in SCI-E, October 2022

APPLIED SCIENCES, Journal Indexed in SCI-E, October 2022

INTERNATIONAL JOURNAL OF THERMAL SCIENCES, Journal Indexed in SCI-E, October 2022

INTERNATIONAL JOURNAL OF THERMAL SCIENCES, Journal Indexed in SCI-E, September 2022

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, Journal Indexed in SCI-E, September 2022

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, Journal Indexed in SCI-E, September 2022

SYMMETRY, Journal Indexed in SCI-E, September 2022

APPLIED SCIENCES, Journal Indexed in SCI-E, September 2022

SYMMETRY, Journal Indexed in SCI-E, September 2022

THERMAL SCIENCE AND ENGINEERING PROGRESS, Journal Indexed in SCI-E, August 2022

SUSTAINABILITY, Journal Indexed in SCI-E, August 2022

Cogent Engineering, Journal Indexed in ESCI, August 2022

Fluids, Journal Indexed in ESCI, August 2022

INTERNATIONAL ADVANCED RESEARCHES AND ENGINEERING JOURNAL, Other Indexed Journal, July 2022

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, Journal Indexed in SCI-E, July 2022

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, Journal Indexed in SCI-E, July 2022

INTERNATIONAL JOURNAL OF THERMAL SCIENCES, Journal Indexed in SCI-E, June 2022

International Journal of Ambient Energy, Journal Indexed in ESCI, June 2022

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, Journal Indexed in SCI-E, June 2022

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, Journal Indexed in SCI-E, May 2022

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, Journal Indexed in SCI-E, May 2022

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, Journal Indexed in SCI-E, April 2022

International Journal of Engineering and Technology Innovation, Other Indexed Journal, April 2022

ENERGIES, SCI Journal, March 2022

Arabian Journal For Science And Engineering, Journal Indexed in SCI-E, March 2022

International Journal of Engineering and Technology Innovation, Other Indexed Journal, March 2022

International Journal of Ambient Energy, Journal Indexed in ESCI, March 2022

SCIENTIFIC REPORTS, SCI Journal, February 2022

International Journal of Ambient Energy, Journal Indexed in ESCI, January 2022

SCIENTIFIC REPORTS, SCI Journal, January 2022

APPLIED NANOSCIENCE, SCI Journal, January 2022

ENERGIES, SCI Journal, January 2022

MACHINES, Journal Indexed in SCI-E, December 2021

International Journal of Ambient Energy, Journal Indexed in ESCI, December 2021

INTERNATIONAL JOURNAL OF THERMAL SCIENCES, SCI Journal, November 2021

ENERGIES, Journal Indexed in SCI-E, November 2021

ZEITSCHRIFT FUR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES, Journal Indexed in SCI-E, November 2021

HEAT TRANSFER RESEARCH, Journal Indexed in SCI-E, November 2021

SURFACES AND INTERFACES, Journal Indexed in SCI-E, November 2021

HEAT TRANSFER RESEARCH, Journal Indexed in SCI-E, October 2021

SYMMETRY-BASEL, Journal Indexed in SCI-E, October 2021

SURFACES AND INTERFACES, Journal Indexed in SCI-E, October 2021

thermopedia, Chapter Scientific / Professional Book Published by Renowned Publishing Houses, September 2021

INTERNATIONAL JOURNAL OF THERMAL SCIENCES, SCI Journal, September 2021

ZEITSCHRIFT FUR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES, Journal Indexed in SCI-E,

September 2021

International Journal of Engineering and Technology Innovation, Other Indexed Journal, June 2021

HEAT TRANSFER RESEARCH, Journal Indexed in SCI-E, May 2021

HEAT TRANSFER RESEARCH, Journal Indexed in SCI-E, March 2021

Journal of Thermal Engineering, Journal Indexed in ESCI, October 2020

INTERNATIONAL JOURNAL OF ENERGY RESEARCH, Journal Indexed in SCI-E, September 2020

Journal of Thermal Engineering, Journal Indexed in ESCI, September 2020

Journal of Thermal Engineering, Journal Indexed in ESCI, July 2020

INTERNATIONAL JOURNAL OF ENERGY RESEARCH, Journal Indexed in SCI-E, June 2020

HEAT TRANSFER RESEARCH, Journal Indexed in SCI-E, May 2020

## **Metrics**

Publication: 37

Citation (WoS): 333

Citation (Scopus): 360

H-Index (WoS): 11

H-Index (Scopus): 11

## **Scholarships**

Domestic Priority Fields Doctoral Scholarship Program, TUBITAK, 2018 - 2021

## **Non Academic Experience**

MOMENT MÜHENDİSLİK LTD. ŞTİ.