

## Asst. Prof. ÖZGÜR EKİCİ

### Personal Information

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### Education Information

Doctorate, University of Texas at Austin, The Graduate School, Mechanical Engineering, United States Of America 2002 - 2007

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Makina Mühendisliği, Turkey 1998 - 2001

Undergraduate, Middle East Technical University, Faculty Of Engineering, Makina Mühendisliği, Turkey 1994 - 1998

### Research Areas

Mechanical Engineering, Energy, Fluid Mechanics, Thermodynamics, Heat and Mass Transfer, Computational fluid dynamics, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Hacettepe University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2018 - Continues

Assistant Professor, Hacettepe University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2014 - 2018

Lecturer PhD, Hacettepe University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2011 - 2014

### Academic and Administrative Experience

Hacettepe Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2015 - Continues

Hacettepe Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2014 - Continues

### Courses

Fluid Mechanics, Undergraduate, 2016 - 2017

Heat Transfer, Undergraduate, 2016 - 2017

Thermodynamics, Undergraduate, 2016 - 2017

### Advising Theses

EKİCİ Ö., Elektrik üretim teknolojilerinin maliyetlerine derin bir bakış: Türkiye, Postgraduate, B.ELİBOL(Student), 2015

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

- I. **Analysis of the gallium melting problem with different heating configurations**  
Çolak E., Öztop H. F. , EKİCİ Ö.  
Journal of Energy Storage, vol.50, 2022 (Journal Indexed in SCI)
- II. **A novel working fluid selection and waste heat recovery by an exergoeconomic approach for a geothermally sourced ORC system**  
Ozcan Z., EKİCİ Ö.  
GEOTHERMICS, vol.95, 2021 (Journal Indexed in SCI)
- III. **Mixed convection in a lid-driven cavity with partially heated porous block**  
Colak E., EKİCİ Ö., ÖZTOP H. F.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.126, 2021 (Journal Indexed in SCI)
- IV. **A thermal model for Li-ion batteries operating under dynamic conditions**  
Amini A., ÖZDEMİR T., EKİCİ Ö., BAŞLAMIŞLI S. Ç. , KÖKSAL M.  
APPLIED THERMAL ENGINEERING, vol.185, 2021 (Journal Indexed in SCI)
- V. **Thermodynamic analysis of a binary geothermal power plant**  
Ozcan Z., EKİCİ Ö.  
INTERNATIONAL JOURNAL OF EXERGY, vol.36, no.1, pp.76-97, 2021 (Journal Indexed in SCI)
- VI. **Experimental Assessment of the Lumped Lithium Ion Battery Model at Different Operating Conditions**  
ÖZDEMİR T., Amini A., EKİCİ Ö., KÖKSAL M.  
HEAT TRANSFER ENGINEERING, 2021 (Journal Indexed in SCI)
- VII. **MHD mixed convection in a chamfered lid-driven cavity with partial heating**  
Colak E., ÖZTOP H. F. , EKİCİ Ö.  
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.156, 2020 (Journal Indexed in SCI)
- VIII. **Thermal Performance of Horizontally/Vertically Oriented Piezoelectric Fans in Varying Fin-Array Width**  
Uc E., EKİCİ Ö.  
HEAT TRANSFER ENGINEERING, 2020 (Journal Indexed in SCI)
- IX. **Experimental Study of Regenerative Rotational Damper in Low Frequencies**  
Amini A., EKİCİ Ö., YAKUT K.  
INTERNATIONAL JOURNAL OF AUTOMOTIVE TECHNOLOGY, vol.21, no.1, pp.83-90, 2020 (Journal Indexed in SCI)
- X. **Process modeling of an automotive pem fuel cell system**  
Akroot A., EKİCİ Ö., KÖKSAL M.  
INTERNATIONAL JOURNAL OF GREEN ENERGY, vol.16, no.10, pp.778-788, 2019 (Journal Indexed in SCI)
- XI. **Investigating the Effect of Medium Liquid Layer Circulation on Temperature Distribution in a Thermoelectric Generator Heat Exchanger Assembly**  
Amini A., EKİCİ Ö., YAKUT K.  
JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME, vol.141, no.4, 2019 (Journal Indexed in SCI)
- XII. **Lattice Boltzmann Simulation of Mixed Convection Heat Transfer in a Lid-Driven Square Cavity Filled With Nanofluid: A Revisit**  
EKİCİ Ö.  
JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME, vol.140, no.7, 2018 (Journal Indexed in SCI)
- XIII. **COMPUTATIONAL INVESTIGATION OF THE EFFECT OF TROUGH HEIGHT IN A TUBULAR SOLAR STILL ON DISTILLATE PRODUCTIVITY**  
EKİCİ Ö.  
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.38, no.1, pp.1-10, 2018 (Journal Indexed in SCI)
- XIV. **3-D CFD modeling and experimental testing of thermal behavior of a Li-Ion battery**  
Gümüşsu E., EKİCİ Ö., KÖKSAL M.  
APPLIED THERMAL ENGINEERING, vol.120, pp.484-495, 2017 (Journal Indexed in SCI)
- XV. **Thermal analysis of gold nanorods heated with femtosecond laser pulses**

- Ekici O., HARRISON R. K. , DURR N. J. , EVERSOLE D. S. , LEE M., BEN-YAKAR A.  
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.41, no.18, 2008 (Journal Indexed in SCI)
- XVI. **Geometrical and electromagnetic effects on arc propagation in a railplug ignitor**  
Ekici O., MATTHEWS R. D. , EZEKOYE O. A.  
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.40, no.24, pp.7707-7715, 2007 (Journal Indexed in SCI)
- XVII. **Thermal and flow fields modeling of fast spark discharges in air**  
Ekici O., EZEKOYE O. A. , HALL M. J. , MATTHEWS R. D.  
JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME, vol.129, no.1, pp.55-65, 2007 (Journal Indexed in SCI)
- XVIII. **THE OPTIMAL SPACING BETWEEN PARALLEL HEAT GENERATING BOARDS COOLED BY TURBULENT FORCED CONVECTION**  
YÜNCÜ H., EKİCİ Ö.  
Isi Bilimi Ve Teknigi Dergisi-Journal Of Thermal Science And Technology, pp.1, 2006 (Journal Indexed in SCI Expanded)

### Articles Published in Other Journals

- I. **Akış Problemleri İçin Lattice Boltzmann Yöntemi ve Uygulamaları**  
ÖZCAN Z., EKİCİ Ö.  
Gazi Üniversitesi Fen Bilimleri Dergisi Part: C Tasarım ve Teknoloji, vol.4, pp.115-126, 2016 (Other Refereed National Journals)

### Books & Book Chapters

- I. **Spherical and Anisotropic Gold Nanomaterials in Plasmonic Laser Phototherapy of Cancer**  
ADELA B. Y. , DANIEL E., EKİCİ Ö.  
in: Non Magnetic Metallic Nanomaterials for Life Sciences of the 10 volume series on Nanomaterials for Life Sciences, Challa Kumar, Editor, Wiley-VCH Verlag GmbH Co. KGaA., 2008

### Refereed Congress / Symposium Publications in Proceedings

- I. **Multi-UAV Base Station Deployment Maximizing Coverage Density and Network Endurance Kapsama Yönlüğü ve Ağ Güçlülüğünü Enbüyütleme C oklu İHA Baz İstasyonu Konuslandırılması**  
DEMİR U., TOKER C., EKİCİ Ö.  
28th Signal Processing and Communications Applications Conference, SIU 2020, Gaziantep, Turkey, 5 - 07 October 2020
- II. **Energy-Efficient Deployment of UAV in V2X Network Considering Latency and Backhaul Issues**  
DEMİR U., TOKER C., EKİCİ Ö.  
2020 IEEE International Black Sea Conference on Communications and Networking, BlackSeaCom 2020, Odessa, Ukraine, 26 - 29 May 2020
- III. **Thermal Behavior of a Li-Ion Battery in the Highway Driving Cycle**  
Amini A., Özelci B., ÖZDEMİR T., EKİCİ Ö., BAŞLAMİŞLİ S. Ç. , KÖKSAL M.  
ULIBTK'xx19 22th Congress of Thermal Sciences and Technology, 11 - 14 September 2019
- IV. **Energy-efficient rotary-wing UAV deployment under flight dynamics and QoS constraints**  
DEMİR U., İpek M. C. , TOKER C., EKİCİ Ö.  
7th IEEE International Black Sea Conference on Communications and Networking, BlackSeaCom 2019, Sochi, Russia, 3 - 06 June 2019
- V. **Experimental assessment of the lumped lithium-ion battery model**

ÖZDEMİR T., Amini A., EKİCİ Ö., KÖKSAL M.

12th International Conference on Computational Heat, Mass and Momentum Transfer (ICCHM2T), Rome, Italy, 3 - 06 September 2019, vol.128

**VI. SIKIŞTIRILAMAZ SONUÇLARLA ÖN KOŞULLANDIRILAN BİR SIKIŞTIRILABİLİR NAVIER STOKES ÇÖZÜCÜSÜ VE BU KODLA YAPILAN OPTİMİZASYON ÇALIŞMALARI**

EKİCİ Ö., PEHLİVAN B.

VII. ULUSAL HAVACILIK VE UZAY KONFERANSI, Turkey, 12 - 14 September 2018

**VII. Experimental and numerical investigations of heating in a bus cabin under transient state conditions**

EKİCİ Ö., GÜNEY G.

18th International Conference on Computational Methods and Experimental Measurements, CEMEM 2017, Alicante, Spain, 4 - 06 July 2017, vol.118, pp.49-59

**VIII. A numerical study of spark ignition**

EKİCİ Ö., Bokka V., Ezekoye O., Matthews R.

Fall Technical Conference of the ASME International Combustion Engine Division, Long Beach, CA, United States Of America, 24 - 27 October 2004, pp.763-772

**IX. A WEB-course on cold forging for continuing education and training**

Tekkaya A., Ekici O.

10th International Cold Forging Congress, FELLBACH, Germany, 13 - 15 September 2000, vol.1555, pp.89-101

## Supported Projects

GÖRTAN M. O. , BAŞLAMİŞLİ S. Ç. , KÖKSAL M., EKİCİ Ö., ÜNVER Ö., YILDIRIM B., Project Supported by Higher Education Institutions, Formula Student Yarışmasına Katılmak Üzere Yarış Aracı Tasarımı ve Üretimi, 2015 - 2017

## Citations

Total Citations (WOS):187

h-index (WOS):4