

## Asst. Prof. İSMAİL ATA

### Personal Information

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### International Researcher IDs

ScholarID: u8QmtpwAAAAJ

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Publons / Web Of Science ResearcherID: AAS-9185-2021

ScopusID: 57188865094

Yoksis Researcher ID: 292739

### Education Information

Post Doctorate, University of Maryland, College Park, Faculty of Engineering, Department of Mechanical Engineering, United States Of America 2022 - 2023

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Makine Eğitimi, Turkey 2009 - 2017

Postgraduate, Niğde Ömer Halisdemir University, Institute Of Science, Makine Mühendisliği Anabilim Dalı, Turkey 2002 - 2005

Undergraduate, Niğde Ömer Halisdemir University, Mühendislik Mimarlık Fakültesi, Makine Mühendisliği, Turkey 1998 - 2002

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, GÜNEŞ ENERJİSİ DESTEKLİ HAVA ISITICISI PERFORMANSININ DENEYSEL İNCELENMESİ VE GİRİ İLİŞKİSEL ANALİZ YÖNTEMİ İLE OPTİMİZASYONU, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Makine Eğitimi, 2017

Postgraduate, PRİMER HAVA FAN SİSTEMİNDE TİTREŞİM ANALİZİ, Niğde Ömer Halisdemir Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği, 2005

### Research Areas

Mechanical Engineering, Energy, Fluid Mechanics, Solar energy, Thermodynamics, Heat and Mass Transfer, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Erciyes University, Havacılık ve Uzay Bilimleri Fakültesi, Uzay Mühendisliği, 2018 - Continues

## Academic and Administrative Experience

Deputy Head of Department, Erciyes University, Havacılık ve Uzay Bilimleri Fakültesi, Uzay Mühendisliği, 2019 - Continues

## Courses

Experimental Engineering, Undergraduate, 2020 - 2021, 2019 - 2020  
FLUID MECHANICS, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019  
MEASUREMENT TECHNIQUES, Undergraduate, 2020 - 2021, 2019 - 2020  
INTRODUCTION TO COMPUTER AND INFORMATION, Undergraduate, 2020 - 2021, 2019 - 2020  
ADVANCED FLUID MECHANICS AND APLICATIONS, Doctorate, 2020 - 2021, 2019 - 2020, 2018 - 2019  
SEMINAR, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019

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

- I. **AN ARTIFICIAL NEURAL NETWORK AND TAGUCHI INTEGRATED APPROACH TO INVESTIGATION OF HEAT TRANSFER AND PRESSURE DROP IN THE SOLAR AIR HEATER**  
ATA İ., ÇAKIROĞLU R., ACIR A.  
HEAT TRANSFER RESEARCH, vol.54, no.3, pp.17-35, 2023 (SCI-Expanded)
- II. **EXERGY ANALYSIS AND DETERMINATION OF IRREVERSIBILITY OF A THERMAL POWER PLANT**  
ATA İ., Tanurun E., UZUN S., Bayrak S., ACIR A.  
HEAT TRANSFER RESEARCH, vol.53, no.2, pp.1-12, 2022 (SCI-Expanded)
- III. **EXPERIMENTAL INVESTIGATION OF THERMAL ENERGY STORAGE EFFICIENCY USING FIN APPLICATION WITH PHASE CHANGE MATERIAL (PCM) UNDER SOLAR RADIATION**  
ACIR A., Canli M. E., ATA İ., UZUN S., TANÜRÜN H. E.  
HEAT TRANSFER RESEARCH, vol.52, no.6, pp.21-39, 2021 (SCI-Expanded)
- IV. **Parametric optimization of energy and exergy analyses of a novel solar air heater with grey relational analysis**  
Acir A., Canli M. E., Ata İ., Çakroğlu R.  
Applied Thermal Engineering, vol.122, pp.330-338, 2017 (SCI-Expanded)
- V. **A study of heat transfer enhancement in a new solar air heater having circular type turbulators**  
Acir A., Ata İ.  
Journal of the Energy Institute, vol.89, no.4, pp.606-616, 2016 (SCI-Expanded)
- VI. **Investigation of effect of the circular ring turbulators on heat transfer augmentation and fluid flow characteristic of solar air heater**  
Acir A., Ata I., Canli M. E.  
Experimental Thermal and Fluid Science, vol.77, pp.45-54, 2016 (SCI-Expanded)
- VII. **Energy and exergy analyses of a new solar air heater with circular-type turbulators having different relief angles**  
Acir A., Ata I., Sahin I.  
International Journal of Exergy, vol.20, no.1, pp.85-104, 2016 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Hibrit-Elektrikli İtke Sistemine Sahip Cessna 172S Uçağında Uçuş Parametrelerinin Gri İlişkisel Analiz Yöntemi ile Optimizasyonu**  
ATA İ.  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.11, no.4, pp.1223-1231, 2023 (Peer-Reviewed Journal)

- II. **Investigation of hybrid-electric propulsion system applied on Cessna 172S aircraft**  
ATA İ., AKGÜL B.  
International journal of energy studies (Online), vol.8, no.3, pp.385-399, 2023 (Peer-Reviewed Journal)
- III. **Farklı Açıklık Oranlarındaki NACA-0018 Rüzgâr Türbini Kanat Modeli Performansının Sayısal ve Deneysel İncelenmesi**  
TANÜRÜN H. E., ATA İ., CANLI M. E., ACIR A.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.23, no.2, pp.371-381, 2020 (ESCI)
- IV. **Optimization of the Parameters Affecting the Heat Transfer Enhancement on the Solar Air Collector with Taguchi Method**  
ATA İ., ACIR A.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.23, no.2, pp.527-535, 2020 (ESCI)
- V. **Effects of a circular-shaped turbulator having varying hole numbers on energy and exergy efficiencies of a solar air heater**  
Acir A., Canli M. E., ATA İ., Tanurun H. E.  
INTERNATIONAL JOURNAL OF AMBIENT ENERGY, vol.40, no.7, pp.739-748, 2019 (ESCI)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Experimental Investigation of Water Production Using Solid Desiccant**  
ATA İ.  
3rd International Azerbaijan Congress on Life, Engineering and Applied Sciences, Baku, Azerbaijan, 26 November 2022
- II. **INVESTIGATION OF THE EFFECT OF TURBULATOR APPLICATION ON THE EFFICIENCY OF SOLAR AIR HEATER**  
ATA İ.  
7. INTERNATIONAL ISTANBUL SCIENTIFIC RESEARCH CONGRESS, Turkey, 18 December 2021
- III. **Hava Akışkanlı Güneş Kollektöründe Enerji Ekserji ve Isıl Performans Analizi**  
ATA İ., ACİR A.  
International Conference on Energy Research, Antalya, Turkey, 31 October - 02 November 2018, pp.170-177
- IV. **Numerical and experimental analysis of a solar air heater**  
CANLI M. E., ATA İ., ACİR A.  
8th International Ege Energy Symposium and Exhibition, Afyon, Turkey, 11 - 13 May 2016, pp.215-221
- V. **Hava Akışkanlı Güneş Kollektörlerinde Performansa Etki Eden Parametrelerin Deneysel İncelenmesi**  
ATA İ., ACİR A.  
19. Ulusal Isı Bilimi ve Tekniği Kongresi, Samsun, Turkey, 9 - 12 September 2013, pp.1055-1059

## Metrics

Publication: 17

Citation (WoS): 168

Citation (Scopus): 174

H-Index (WoS): 5

H-Index (Scopus): 5