



# OĞUZHAN ÖZBALCI

## ASST. PROF.

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Address : Akdeniz Üniversitesi Mühendislik Fakültesi Makine Mühendisliği Bölümü Termodinamik laboratuvarı Oda No: BZ-10-1

### International Researcher IDs

ScholarID: s6MVengAAAAJ

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Publons / Web Of Science ResearcherID: GRJ-9501-2022

ScopusID: 57191967637

Yoksis Researcher ID: 249997



## Learning Knowledge

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Doctorate 2015 - 2022	Akdeniz University, Institute of Science, Makine Mühendisliği Termodinamik, Turkey
Postgraduate 2013 - 2015	Akdeniz University, Institute of Science, Makine Mühendisliği Termodinamik, Turkey
Undergraduate 2008 - 2012	Usak University, Faculty Of Engineering, Makine Mühendisliği, Turkey

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## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, Investigation of the effects of nanofluid usage on heat transfer in a channel with discrete porous heat sinks, Akdeniz University, Institute of Science, Institute of Science, 2022

Postgraduate, KISMİ AÇIK BİR HACİM İÇERİSİNE YERLEŞTİRİLMİŞ METAL KÖPÜK BLOKLARDAN ISI TRANSFERİNİN DENEYSEL OLARAK İNCELENMESİ, Akdeniz University, Makine Mühendisliği , Termodinamik Anabilim Dalı, 2015

## Academic Titles / Tasks

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## Supported Projects

1. DOĞAN A., ASİLTÜRK M., ÖZBALCI O., Project Supported by Higher Education Institutions, NANOAKIŞKAN VE AÇIK HÜCRELİ METAL KÖPÜK MALZEME KULLANIMININ ELEKTRONİK SİSTEMLERİN SOĞUTULMASINA ETKİSİNİN DENEYSEL OLARAK İNCELENMESİ, 2019 - 2022

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

1. **Performance of discretely mounted metal foam heat sinks in a channel with nanofluid**  
ÖZBALCI O., DOĞAN A., Asilturk M.  
Applied Thermal Engineering, vol.235, 2023 (SCI-Expanded)
2. **Experimental Study of Thermal and Pressure Performance of Porous Heat Sink Subjected to Al2O3-H2O Nanofluid**  
Ozbalci O., Dogan A., Asilturk M.  
Electronics (Switzerland), vol.11, no.15, 2022 (SCI-Expanded)
3. **Heat Transfer Performance of Plate Fin and Pin Fin Heat Sinks Using Al2O3/H2O Nanofluid in Electronic Cooling**  
Özbalcı O., Dogan A., Asilturk M.  
Processes, vol.10, no.8, 2022 (SCI-Expanded)
4. **Forced convection heat transfer from porous heat sinks placed in partially open cavity: Some case studies**  
ÖZBALCI O., DOĞAN A.  
EXPERIMENTAL HEAT TRANSFER, vol.31, no.3, pp.183-193, 2018 (SCI-Expanded)
5. **EXPERIMENTAL INVESTIGATION OF NATURAL CONVECTION FROM POROUS BLOCKS IN A CAVITY**  
DOĞAN A., Ozbalci O., ATMACA İ.  
JOURNAL OF POROUS MEDIA, vol.19, no.12, pp.1023-1032, 2016 (SCI-Expanded)

## Articles Published in Other Journals

1. **Experimental Investigation of Free Convection from Foam Heat Sinks in an Inclined Rectangular Channel**  
DOĞAN A., ÖZBALCI O.  
Cumhuriyet Science Journal, vol.39, no.3, pp.756-765, 2018 (Peer-Reviewed Journal)
2. **EXPERIMENTAL INVESTIGATION OF THE EFFECT OF METAL FOAM MATERIAL ON CPU COOLING**  
Doğan A., Özbalcı O.  
Journal of Engineering Technology and Applied Sciences, vol.2, no.3, pp.113-120, 2017 (Peer-Reviewed Journal)
3. **Investigation of Natural Convection from Intermittent Foam Blocks in a Cavity**  
DOĞAN A., Özbalcı O., ATMACA İ.  
The Online Journal of Science and Technology, vol.4, no.3, pp.43-48, 2014 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- 1. Al2O3-Su Nanoakışkan Kullanımının Isınan Bir Yüzeyden Olan Isı Transferine Etkisinin Deneysel Olarak İncelenmesi**  
ÖZBALCI O., DOĞAN A., ASİLTÜRK M.  
22. Isı Bilimi ve Tekniği Kongresi, Kocaeli, Turkey, 11 - 14 September 2019, pp.35-40
- 2. Eğimli Bir Kanal İçerisindeki Gözenekli Bloklardan Zorlanmış Taşınım ile Isı Transferinin Deneysel Olarak İncelenmesi**  
ÖZBALCI O., DOĞAN A.  
22. Isı Bilimi ve Tekniği Kongresi, Kocaeli, Turkey, 11 - 14 September 2019, pp.468-473
- 3. EXPERIMENTAL INVESTIGATION OF THE EFFECT OF THE METAL FOAM MATERIAL ON CPU COOLING**  
Doğan A., Özbacı O.  
International Congress on Fundamental and Applied Sciences, Sarajevo, Bosnia And Herzegovina, 21 August 2017, pp.60
- 4. INVESTIGATION OF FORCED CONVECTION HEAT TRANSFER FROM METAL FOAM BLOCKS HAVING DIFFERENT PORE DENSITY**  
Doğan A., Özbacı O., Atmaca İ.  
International Science and Technology Conference ISTEC 2015, Sankt-Peterburg, Russia, 2 - 04 September 2015, pp.755-761
- 5. Metal Köpük Malzemeler ve Yüzey Soğutmada Kullanımı**  
DOĞAN A., ÖZBALCI O., ATMACA İ.  
XII. Ulusal Tesisat Mühendisliği Kongresi, İzmir, Turkey, 8 - 11 April 2015, pp.2641-2652
- 6. Experimental study of air natural convection on aluminum foam-blocks in a cavity**  
DOĞAN A., ÖZBALCI O., ATMACA İ.  
3rd International Scientific Conference on Engineering Manufacturing and Advanced Technologies, MAT 2014,, Saraybosna, Bosnia And Herzegovina, 18 - 20 September 2014, pp.54-59

## Courses

Sayısal Akışkanlar Dinamiği, Undergraduate, 2022 - 2023  
Seminer, Undergraduate, 2022 - 2023  
Yenilenebilir Enerji Kaynakları, Undergraduate, 2022 - 2023  
Makine Proje, Undergraduate, 2022 - 2023

## Metrics

Publication: 14  
Citation (WoS): 7  
Citation (Scopus): 10  
H-Index (WoS): 1  
H-Index (Scopus): 2

## Congress and Symposium Activities

XII. Ulusal Tesisat Mühendisliği Kongresi, Attendee, İzmir, Turkey, 2015

## Research Areas

