


# Kasım Toprak

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## Education

- 2010 - 2014 **Doctor of Engineering (PhD) in Mechanical Engineering**, *Rice University*, USA.
- 2008 - 2010 **Master of Science in Mechanical Engineering**, *Rice University*, USA.
- 2002 - 2006 **Bachelor of Science in Mechanical Engineering**, *Zonguldak Karaelmas University*, Türkiye.

## Professional Experience

- 2016 - ongoing **Assistant Professor**, *İzmir Institute of Technology*, Department of Mechanical Engineering, Türkiye.
- 2014 - 2016 **Lecturer**, *İzmir Institute of Technology*, Department of Mechanical Engineering, Türkiye.

## Skills

Softwares **C, C++, Python, Matlab, MPI, LAMMPS, GROMACS, ANSYS, Simcenter Amesim, LaTeX.**

## Research Interests

**Thermal Analyzes of Nanoscaled Materials.**  
**HVAC Systems and Energy Efficiency.**  
**Thermal Energy Storage Systems.**  
**Renewable Energy and Hybrid Systems.**

## Project grants

- 2019 **İzmir Institute of Technology Scientific Research Project (IZTECH-BAP)**, Türkiye. Investigation of thermal properties of graphene-metal composites material.
- 2017 **The Scientific and Technological Research Council of Türkiye (TÜBİTAK)**, Türkiye. Numerical and Experimental Investigation of Thermal Conductivity of Graphene Coated Metal.
- 2017 **İzmir Institute of Technology Scientific Research Project (IZTECH-BAP)**, Türkiye. Heat Transfer Analysis of Alumina-Boron Carbide-Aluminum System.
- 2016 **İzmir Institute of Technology Scientific Research Project (IZTECH-BAP)**, Türkiye. Coaxial Carbon nanotube – calculation of thermal conductivity of copper nanowire by molecular dynamics simulation.

## Publications

<https://orcid.org/0000-0002-0043-2941>.

## Master's Thesis direct supervision

#1, *Ahmet Berk Yılmaz*, Izmir Institute of Technology Department of Energy Engineering, "Numerical and Experimental Investigation of Thermal Performance of Graphene Reinforced Aluminium", 2020.

#2, *Gizem Ersavaş*, Izmir Institute of Technology Department of Energy Engineering, "Thermal Performance of Graphene Coating on Copper", 2019.

#3, *Kiswendsida Elias Ouedraogo*, Izmir Institute of Technology Department of Energy Engineering, "Theoretical performance optimization of solar absorption chiller coupled to underground cooling tower", 2018.

#4, *Mustafa Dilşen*, Izmir Institute of Technology Department of Energy Engineering, "Investigation of the rotor speed impact on the efficiency of rotary heat recovery ventilation devices", 2018.

## Courses

Taught: **Numerical Methods in Mechanical Engineering, HVAC System Design, Engineering Design, Refrigeration, Numerical Methods in Engineering, Fluid Mechanics, Thermodynamics, Applied Mathematics for Engineers, Basic Computer Science and Programming**, (Izmir Institute of Technology).

Asistant: **Thermal Systems Design, Convective Heat Transfer, Heat Transfer, Fluid Mechanics**, (Rice University).

## Languages

English, Turkish

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**(KASIM TOPRAK)**

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