

## Res. Asst. İbrahim KAYA

### Personal Information

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### International Researcher IDs

ORCID: 0000-0003-2593-2472

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### Education Information

Doctorate, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Naval Architecture And Marine Engineering, Turkey 2018 - Continues

Postgraduate, Yildiz Technical University, Fen Bilimleri, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği Abd, Turkey 2015 - 2018

Undergraduate, Yildiz Technical University, Naval Architecture And Maritime Faculty, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği, Turkey 2010 - 2014

### Research Areas

Multiobjective Optimization, Heuristic Methods, Energy, Thermodynamics, Heat and Mass Transfer, Fuels and Combustion, Heating, Refrigerating and Air Conditioning, Internal Combustion Engines, Thermal machines, Ship Machines

### Academic Titles / Tasks

Research Assistant, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Naval Architecture And Marine Engineering, 2017 - Continues

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

- I. **Analyzing of process capability indices under uncertain information and hesitancy by using Pythagorean fuzzy sets**  
KAYA İ., Yalçın S.  
Iranian Journal of Fuzzy Systems, vol.20, no.7, pp.85-99, 2023 (SCI-Expanded)
- II. **NO and performance characteristics of a CI engine operated on emulsified fuel**  
Okumuş F., Kökkülünk G., Gonca G., Kaya İ.  
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.30, pp.103-122, 2023 (SCI-Expanded)
- III. **A new method to multi - objective optimization of shell and tube heat exchanger for waste heat recovery**  
KAYA İ., ÜST Y.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, 2021 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Investigation of Waste Heat Energy in a Marine Engine with Transcritical Organic Rankine Cycle**  
Kaya İ., Karakurt A. S., Üst Y.  
Journal of Thermal Engineering, vol.6, no.3, pp.282-296, 2020 (ESCI)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Optimal Design of Shell and Tube Heat Exchanger by Using Net Saving and Saving Cost Ratio Objectives in Waste Heat Recovery System**  
ÜST Y., KAYA İ.  
International Conference on Engineering and Natural Sciences (ICENS), Prague, Czech Republic, 12 - 16 June 2019, pp.267-280
- II. **Recovery of Ship Waste Exhaust Gas Energy by Transcritical Organic Rankine Cycle**  
ÜST Y., KAYA İ.  
International Conference on Engineering and Natural Sciences (ICENS), Kiev, Ukraine, 02 May 2018, pp.366

## Supported Projects

Kaya İ., Project Supported by Other Official Institutions, Development A Graphical User Interface for YTU DEEP Ship Movements Program, 2022 - 2022

## Metrics

Publication: 7