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Education Information

Doctorate, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Naval Architecture And Marine Engineering, Turkey 2018 - 2024

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. **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)
- II. **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. Discretization of E-Type Shell and Tube Heat Exchangers Based on Axial Flows for Thermal Analysis

Kaya İ., Üst Y.

4 th INTERNATIONAL NAVAL ARCHITECTURE AND MARITIME SYMPOSIUM Yildiz Technical University, Besiktas, Istanbul, October 23-25 , 2023, İstanbul, Turkey, 11 - 13 October 2023, pp.673-681

II. 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

III. 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