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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAW-7543-2020

ScopusID: 57216709716

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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Deniz Ulaştırma Mühendisliği, Turkey 2019 - 2022

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Deniz Ulaştırma Mühendisliği, Turkey 2017 - 2019

Undergraduate, Istanbul Technical University, Denizcilik Fakültesi, Gemi Makineleri İşletme Mühendisliği, Turkey 2012 - 2017

Foreign Languages

French, B2 Upper Intermediate

Italian, B1 Intermediate

English, B2 Upper Intermediate

Dissertations

Doctorate, Dynamic modelling, simulation based analysis and optimization of hybrid ship propulsion systems, Istanbul Technical University, Lisansüstü Eğitim Enstitüsü, 2022

Postgraduate, Analysis of the Availability and Applicability of Fuel Cell as a Main Power Unit for a Commercial Ship, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Deniz Ulaştırma Mühendisliği, 2019

Research Areas

Naval Architecture and Marine Engineering, Ship Machines, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Istanbul Technical University, Denizcilik, Gemi Makineleri İşletme Mühendisliği, 2018 - Continues

Research Assistant, Piri Reis University, Faculty Of Maritime, Gemi Makineleri İşletme Mühendisliği, 2017 - 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Decarbonization of shipping: Hydrogen and fuel cells legislation in the maritime industry**
İnal Ö. B.
BRODOGRADNJA, vol.75, no.2, pp.1-13, 2024 (SCI-Expanded)
- II. **Hydrogen Fuel Cell as an Electric Generator: A Case Study for a General Cargo Ship**
İnal Ö. B., Dere Ç., Zincir B., Charpentier J.
JOURNAL OF MARINE SCIENCE AND ENGINEERING, vol.12, no.3, pp.1-13, 2024 (SCI-Expanded)
- III. **Utilization of waste heat for onboard hydrogen production in ships**
Dere Ç., İnal Ö. B., Zincir B.
International Journal of Hydrogen Energy, 2024 (SCI-Expanded)
- IV. **Investigation of the adverse effects of slow steaming operations for ships**
Dere Ç., Zincir B., İnal Ö. B., Deniz C.
Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, vol.236, no.4, pp.1069-1081, 2022 (SCI-Expanded)
- V. **Investigation on the decarbonization of shipping: An approach to hydrogen and ammonia**
İnal Ö. B., Zincir B., Deniz C.
International Journal of Hydrogen Energy, vol.47, pp.19888-19900, 2022 (SCI-Expanded)
- VI. **Hybrid power and propulsion systems for ships: Current status and future challenges**
İnal Ö. B., Charpentier J., Deniz C.
Renewable and Sustainable Energy Reviews, vol.156, 2022 (SCI-Expanded)
- VII. **Assessment of fuel cell types for ships: Based on multi-criteria decision analysis**
İnal Ö. B., Deniz C.
JOURNAL OF CLEANER PRODUCTION, vol.265, 2020 (SCI-Expanded)

Articles Published in Other Journals

- I. **An Approach to Green Ports in Terms of Low-Carbon Energy and Sustainability**
İnal Ö. B., Dere Ç.
International Journal of Environment and Geoinformatics, vol.11, no.1, pp.43-49, 2024 (Peer-Reviewed Journal)
- II. **A case study on the variable frequency drive for ship engine room ventilation**
İnal Ö. B., Koçak G.
Marine Science and Technology Bulletin, vol.12, no.3, pp.252-258, 2023 (Peer-Reviewed Journal)
- III. **An overview on the readiness level of the Turkish maritime industry for decarbonization in shipping**
ZİNCİR B., İNAL Ö. B., DERE Ç., DENİZ C.
Marine Science and Technology Bulletin, vol.11, no.1, pp.63-75, 2022 (Peer-Reviewed Journal)
- IV. **Hybrid propulsion and alternative fuels education in the course of decarbonised shipping**
İnal Ö. B., Dere Ç., Zincir B., Deniz C.
Australian Journal of Maritime and Ocean Affairs, vol.14, no.2, pp.97-113, 2022 (Scopus)
- V. **Emission Analysis of LNG Fuelled Molten Carbonate Fuel Cell System for a Chemical Tanker Ship: A Case Study**
İNAL Ö. B., DENİZ C.
Marine Science and Technology Bulletin, vol.10, no.2, pp.118-133, 2021 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Electrification and Hybridization of Ferries: State of the Art and Case Study**
İnal Ö. B., Charpentier J. F., Deniz C.
in: Decarbonization of Maritime Transport, Burak Zincir, Praveesh Chandra Shukla, Avinash K. Agarwal, Editor,
Springer, London/Berlin, Singapore, pp.120-156, 2023
- II. **Hydrogen as Maritime Transportation Fuel: A Pathway for Decarbonization**

Inal Ö. B., Zincir B., Dere Ç.

in: Greener and Scalable E-fuels for Decarbonization of Transport, Avinash Kumar Agarwal, Hardikk Valera, Editor, Springer, London/Berlin, Singapore, pp.67-110, 2022

Refereed Congress / Symposium Publications in Proceedings

- I. **An Additional Education Module Proposal on Hydrogen Fuel for Marine Engineering Programs**
İNAL Ö. B.
7. International Hasankeyf Scientific Research and Innovation Congress, Turkey, 23 - 24 February 2024
- II. **Environmental Assessment of Hydrogen Fuel Cells as an Electric Generation Unit: A Case Study of a General Cargo Ship**
İNAL Ö. B., ZİNCİR B., DERE Ç.
7th International Hydrogen Technologies Congress, Turkey, 10 May 2023
- III. **Legislative Approach to Fuel Cells in Turkish Maritime Industry**
İNAL Ö. B.
7th International Hydrogen Technologies Congress, Turkey, 10 May 2023
- IV. **The Availability of Onboard Hydrogen Production with Waste Heat**
DERE Ç., ZİNCİR B., İNAL Ö. B.
7th International Hydrogen Technologies Congress, Turkey, 10 May 2023
- V. **An Overview of Green Ports and Sustainable Development Goals**
İNAL Ö. B.
2nd International Conference on Scientific and Academic Research, Konya, Turkey, 14 March 2023, vol.1, pp.409-413
- VI. **Emission Reduction Potential of Hybrid Propulsion: A Case Ferry from Istanbul**
İnal Ö. B., Charpentier J., Deniz C.
International Graduate Research Symposium, İstanbul, Turkey, 1 - 03 June 2022, pp.50-56
- VII. **NUMERICAL ANALYSIS OF TANK COATING SELECTION IN CHEMICAL TANKER SHIPS**
TEKELİ M. M., AKYÜZ E., GÜLEN M. F., İNAL Ö. B.
ISEMAS 2022 - International Symposium on Energy Management and Sustainability, İstanbul, Turkey, 08 April 2022
- VIII. **A Brief Comparison of Risk Analysis Methods for Fuel Cell Ships**
İNAL Ö. B., GÜLEN M. F., DENİZ C., TEKELİ M. M.
International Symposium on Energy Management and Sustainability (ISEMAS), İstanbul, Turkey, 08 April 2022
- IX. **A Bow-Tie Analysis for the Navigational Safety and Environmental Sustainability on the 1915 Çanakkale Bridge**
GÜLEN M. F., TEKELİ M. M., İNAL Ö. B., ARSLAN Ö., KADIOĞLU M.
International Symposium on Energy Management and Sustainability, Turkey, 08 April 2022
- X. **Onboard Hydrogen Storage for Ships: An Overview**
İNAL Ö. B., DERE Ç., DENİZ C.
5th International Hydrogen Technologies Congress, Turkey, 26 - 28 May 2021
- XI. **Hydrogen and Ammonia as Fuel for the Decarbonization of Shipping**
İNAL Ö. B., ZİNCİR B., DENİZ C.
5th International Hydrogen Technologies Congress, Turkey, 26 - 28 May 2021
- XII. **Fuel Cell Availability for Merchant Ships**
İnal Ö. B., Deniz C.
3rd International Naval Architecture and Maritime Symposium, İstanbul, Turkey, 24 - 25 April 2018

Supported Projects

İnal Ö. B., Project Supported by Higher Education Institutions, Hidrojenin Ticari Gemilerde Yakıt Olarak Kullanımındaki Risk Faktörlerinin Belirlenmesi, 2024 - Continues
Deniz C., İnal Ö. B., Project Supported by Higher Education Institutions, Gemiler İçin Hibrit Tahrik Sisteminin Modellenmesi Simülasyonu ve Optimizasyonu, 2022 - 2023

Metrics

Publication: 26
Citation (WoS): 183
Citation (Scopus): 259
H-Index (WoS): 4
H-Index (Scopus): 5