

# **Arş.Gör.Dr. Ömer Berkehan İnal**

## **Kişisel Bilgiler**

**E-posta:** inalo@itu.edu.tr

**Web:** <https://avesis.itu.edu.tr/inalo>

**Posta Adresi:** Postane mah. İTÜ Denizcilik Fakültesi, Akademi Binası Kat:3 No:409 Tuzla / İstanbul

## **Uluslararası Araştırmacı ID'leri**

ScholarID: 8hIdJUYAAAAJ

ORCID: 0000-0003-1890-203X

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

ScopusID: 57216709716

Yoksis Araştırmacı ID: 271663

## **Eğitim Bilgileri**

Doktora, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Deniz Ulaştırma Mühendisliği, Türkiye 2019 - 2022

Yüksek Lisans, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Deniz Ulaştırma Mühendisliği, Türkiye 2017 - 2019

Lisans, İstanbul Teknik Üniversitesi, Denizcilik Fakültesi, Gemi Makineleri İşletme Mühendisliği, Türkiye 2012 - 2017

## **Yabancı Diller**

Fransızca, B2 Orta Üstü

İtalyanca, B1 Orta

İngilizce, B2 Orta Üstü

## **Yaptığı Tezler**

Doktora, Dynamic modelling, simulation based analysis and optimization of hybrid ship propulsion systems, İstanbul Teknik Üniversitesi, Lisansüstü Eğitim Enstitüsü, 2022

Yüksek Lisans, 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

## **Araştırma Alanları**

Gemi İnşaatı ve Gemi Makinaları Mühendisliği, Gemi Makinaları, Mühendislik ve Teknoloji

## **Akademik Unvanlar / Görevler**

Araştırma Görevlisi, İstanbul Teknik Üniversitesi, Denizcilik, Gemi Makineleri İşletme Mühendisliği, 2018 - Devam Ediyor  
Araştırma Görevlisi, Piri Reis Üniversitesi, Denizcilik Fakültesi, Gemi Makineleri İşletme Mühendisligi, 2017 - 2017

## **SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler**

- I. **Decarbonization of shipping: Hydrogen and fuel cells legislation in the maritime industry**  
İnal Ö. B.  
BRODOGRADNJA, cilt.75, sa.2, ss.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, cilt.12, sa.3, ss.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, cilt.236, sa.4, ss.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, cilt.47, ss.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, cilt.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, cilt.265, 2020 (SCI-Expanded)

## **Düzenlenen Dergilerde Yayınlanan Makaleler**

- 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, cilt.11, sa.1, ss.43-49, 2024 (Hakemli Dergi)
- II. **A case study on the variable frequency drive for ship engine room ventilation**  
İnal O. B., Koçak G.  
Marine Science and Technology Bulletin, cilt.12, sa.3, ss.252-258, 2023 (Hakemli Dergi)
- 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, cilt.11, sa.1, ss.63-75, 2022 (Hakemli Dergi)
- 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, cilt.14, sa.2, ss.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, cilt.10, sa.2, ss.118-133, 2021 (Hakemli Dergi)

## **Kitap & Kitap Bölümleri**

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

Inal Ö. B., Zincir B., Dere Ç.

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

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. An Additional Education Module Proposal on Hydrogen Fuel for Marine Engineering Programs  
İNAL Ö. B.  
7. International Hasankeyf Scientific Research and Innovation Congress, Türkiye, 23 - 24 Şubat 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, Türkiye, 10 Mayıs 2023
- III. Legislative Approach to Fuel Cells in Turkish Maritime Industry  
İNAL Ö. B.  
7th International Hydrogen Technologies Congress, Türkiye, 10 Mayıs 2023
- IV. The Availability of Onboard Hydrogen Production with Waste Heat  
DERE Ç., ZİNCİR B., İNAL Ö. B.  
7th International Hydrogen Technologies Congress, Türkiye, 10 Mayıs 2023
- V. An Overview of Green Ports and Sustainable Development Goals  
İNAL Ö. B.  
2nd International Conference on Scientific and Academic Research, Konya, Türkiye, 14 Mart 2023, cilt.1, ss.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, Türkiye, 1 - 03 Haziran 2022, ss.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, Türkiye, 08 Nisan 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, Türkiye, 08 Nisan 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, Türkiye, 08 Nisan 2022
- X. Onboard Hydrogen Storage for Ships: An Overview  
İNAL Ö. B., DERE Ç., DENİZ C.  
5th International Hydrogen Technologies Congress, Türkiye, 26 - 28 Mayıs 2021
- XI. Hydrogen and Ammonia as Fuel for the Decarbonization of Shipping  
İNAL Ö. B., ZİNCİR B., DENİZ C.  
5th International Hydrogen Technologies Congress, Türkiye, 26 - 28 Mayıs 2021
- XII. Fuel Cell Availability for Merchant Ships  
Inal Ö. B., Deniz C.  
3rd International Naval Architecture and Maritime Symposium, İstanbul, Türkiye, 24 - 25 Nisan 2018

## Desteklenen Projeler

Deniz C., İnal Ö. B., Yükseköğretim Kurumları Destekli Proje, Gemiler İçin Hibrit Tahrik Sisteminin Modellemesi

## Metrikler

Yayın: 26

Atıf (WoS): 183

Atıf (Scopus): 259

H-İndeks (WoS): 4

H-İndeks (Scopus): 5