



## Doç.Dr. Burak Zincir

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Yoksis Araştırmacı ID: 197171

### Eğitim Bilgileri

Doktora, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Deniz Ulaştırma

Mühendisliği, Türkiye 2014 - 2019

Yüksek Lisans, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Deniz Ulaştırma

Mühendisliği, Türkiye 2012 - 2014

Lisans, İstanbul Teknik Üniversitesi, Denizcilik Fakültesi, Gemi Makineleri İşletme

Mühendisliği Bölümü, Türkiye 2005 - 2010

### Yabancı Diller

İngilizce

### Yaptığı Tezler

Doktora, An alternative fuel assessment model for ships and experiments on the effect of methanol on diesel engines, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Deniz Ulaştırma Mühendisliği, 2019

Yüksek Lisans, Hidrojen karışıklı yakıtların gemilere uygulanabilirliğinin ve emisyon salınımlarına etkilerinin incelenmesi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Deniz Ulaştırma Ve İşletme Mühendisliği (Disiplinlerarası) (YI) (Tezli), 2014

### Araştırma Alanları

Makina Mühendisliği, Enerji, Gemi Makinaları

### Akademik Unvanlar / Görevler

Dr.Öğr.Üyesi, İstanbul Teknik Üniversitesi, Denizcilik, Gemi Makineleri İşletme Mühendisliği, 2020 - Devam Ediyor  
Araştırma Görevlisi, İstanbul Teknik Üniversitesi, Denizcilik, Gemi Makineleri İşletme Mühendisliği, 2013 - 2019

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

- I. **Investigation of the adverse effects of slow steaming operations for ships**  
Dere Ç., Zincir B., Inal 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)
- II. **Investigation on the decarbonization of shipping: An approach to hydrogen and ammonia**  
Inal Ö. B., Zincir B., Deniz C.  
International Journal of Hydrogen Energy, cilt.47, ss.19888-19900, 2022 (SCI-Expanded)
- III. **Environmental and economic evaluation of ammonia as a fuel for short-sea shipping: A case study**  
Zincir B.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.47, sa.41, ss.18148-18168, 2022 (SCI-Expanded)
- IV. **Investigation of environmental, operational and economic performance of methanol partially premixed combustion at slow speed operation of a marine engine**  
Zincir B., Deniz C., Tuner M.  
JOURNAL OF CLEANER PRODUCTION, cilt.235, ss.1006-1019, 2019 (SCI-Expanded)
- V. **Investigation of Effects of Intake Temperature on Low Load Limitations of Methanol Partially Premixed Combustion**  
Zincir B., Shukla P., Shamun S., Tuner M., Deniz C., Johansson B.  
ENERGY & FUELS, cilt.33, sa.6, ss.5695-5709, 2019 (SCI-Expanded)
- VI. **Environmental and economical assessment of alternative marine fuels**  
Deniz C., ZİNCİR B.  
JOURNAL OF CLEANER PRODUCTION, cilt.113, ss.438-449, 2016 (SCI-Expanded)

## **Düzenlenen Dergilerde Yayınlanan Makaleler**

- I. **Analyzing Marine Engineering Curriculum from the Perspective of the Sustainable Development Goals**  
ZİNCİR B.  
Marine Science and Technology Bulletin, cilt.11, ss.158-168, 2022 (Hakemli Dergi)
- II. **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)
- III. **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)

## **Kitap & Kitap Bölümleri**

- I. **Biodiesel and Renewable Diesel as a Drop-in Fuel for Decarbonized Maritime Transportation**  
SEVİM Ç., ZİNCİR B.  
Potential and Challenges of Low Carbon Fuels for Sustainable Transport, Agarwal, Avinash Kumar; Valera, Hardikk, Editör, Springer, Singapore, ss.319-345, 2022
- II. **Ammonia for Decarbonized Maritime Transportation**  
ZİNCİR B.  
Clean Fuels for Mobility, Di Blasio, Gabriele; Agarwal, Avinash Kumar; Belgiorno, Giacomo; Shukla, Pravesh Chandra, Editör, Springer, Singapore, ss.171-199, 2022
- III. **Hydrogen as Maritime Transportation Fuel: A Pathway for Decarbonization**  
İNAL Ö. B., ZİNCİR B., DERE Ç.

- Greener and Scalable E-fuels for Decarbonization of Transport, , Editör, Springer, ss.67-110, 2022
- IV. **Methanol as a Fuel for Marine Diesel Engines**  
ZİNCİR B., DENİZ C.  
Alcohol as an Alternative Fuel for Internal Combustion Engines, Pravesh Chandra Shukla, Giacomo Belgiorno, Gabriele Di Blasio, Avinash Kumar Agarwal, Editör, Springer, Singapore, ss.45-85, 2021

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Comparison of Biofuels for Decarbonized Maritime Transportation**  
SEVİM Ç., ZİNCİR B.  
International Symposium on Energy Management and Sustainability (ISEMAS) 2022, Türkiye, 05 Nisan 2022
- II. **Using an E-fuel Method to Meet the 2030 Decarbonization Target: A Case Study**  
ZİNCİR B. A., ZİNCİR B., USLUER H. B., ARSLANOĞLU Y.  
International Symposium on Energy Management and Sustainability (ISEMAS) 2022, Türkiye, 05 Nisan 2022
- III. **Necessity of Ecological Efficiency Indicator Modal of Air Pollutants and Emissions from Ships in Maritime Transportation: Policy Perspective**  
ÇALIŞKAN U. Y., ZİNCİR B.  
International Symposium on Energy Management and Sustainability (ISEMAS) 2022, Türkiye, 05 Nisan 2022
- IV. **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
- V. **A Short Review of Ammonia as an Alternative Marine Fuel for Decarbonised Maritime Transportation**  
ZİNCİR B.  
International Conference on Energy, Environment and Storage of Energy (ICEESEN2020), Kayseri, Türkiye, 19 - 21 Kasım 2020
- VI. **QUANTIFICATION AND ANALYSIS OF THE CHARGE COOLING EFFECT OF METHANOL IN A COMPRESSION IGNITION ENGINE UTILIZING PPC STRATEGY**  
Shamun S., Zincir B., Shukla P., Valladolid P. G., Verheist S., Tuner M.  
ASME Internal Combustion Engine Fall Technical Conference, California, Amerika Birleşik Devletleri, 4 - 07 Kasım 2018
- VII. **Maritime Industry Developments Related to Alternative Fuels**  
Zincir B., Deniz C.  
INT-NAM 2018, 3rd International Naval Architecture and Maritime Symposium, İstanbul, Türkiye, 24 - 25 Nisan 2018, ss.893-905
- VIII. **Usage of Simulator As an Energy Efficient Operation of Main Engine Practice**  
Dere Ç., Zincir B., Deniz C.  
The 13th International Conference on Engine Room Simulators, Odessa, Ukrayna, 20 - 21 Eylül 2017, ss.202-208
- IX. **Scenario Based Assessment Method for Engine Room Simulator Courses**  
Zincir B., Dere Ç., Deniz C.  
The 13th International Conference on Engine Room Simulators, Odessa, Ukrayna, 20 Eylül 2017, ss.165-171
- X. **Hull fouling effect on propulsion system components**  
Dere Ç., Deniz C., ZİNCİR B., Kandemir Ç.  
The Second Global Conference on Innovation in Marine Technology and The Future of Maritime Transportation, Muğla, Türkiye, 24 - 25 Ekim 2016, ss.142-148
- XI. **Investigation of effect of alternative marine fuels on energy efficiency operational indicator (EEOI)**  
ZİNCİR B., Deniz C.  
The Second Global Conference on Innovation in Marine Technology and The Future of Maritime Transportation, Muğla, Türkiye, 24 - 25 Ekim 2016, ss.713-719
- XII. **Comparison of Hydrogen Production Methods for Shipboard Usage**

- ZİNCİR B., DENİZ C.  
10th Symposium on High-Performance Marine Vehicles, HIPER16, 17 - 19 Ekim 2016
- XIII. **Adaptation of LNG Fuel System Workout to a Simulator for Training Purpose of Engine Officers**  
ZİNCİR B., DERE Ç.  
The 12th International Conference on Engine Room Simulators, 19 - 20 Kasım 2015
- XIV. **Energy efficiency analysis of pump systems in a ship power plant and a case study of a container ship**  
DURMUSOGLU Y., Koçak G., Deniz C., Zincir B.  
16th Annually General Assembly of International Associations of Maritime Universities (IAMU), Opatija, Hırvatistan, 7 - 10 Ekim 2015, ss.57-62
- XV. **An Investigation of Hydrogen Blend Fuels Applicability on Ships**  
ZİNCİR B., DENİZ C.  
2nd International Symposium on Naval Architecture and Maritime, 23 - 24 Ekim 2014

### Bilimsel Dergilerdeki Faaliyetler

International Journal of Energy and Power Engineering, Editör, 2020 - Devam Ediyor

### Metrikler

Yayın: 42  
Atıf (WoS): 147  
Atıf (Scopus): 259  
H-İndeks (WoS): 4  
H-İndeks (Scopus): 5

### Ödüller

Zincir B., En Başarılı Doktora Tezi Ödülü 2019, İstanbul Teknik Üniversitesi, Ekim 2020

### Akademi Dışı Deneyim

Şirket, Seahorse Denizcilik Ve Mühendislik Tic. Lt. Şti., Teknik Departman  
Seahorse Denizcilik ve Mühendislik Tic. Ltd. Şti.