

YASEMIN ARIKAN ÖZDEN

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International Researcher IDs

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Biography

Yasemin Arıkan ÖZDEN, 2008 yılında Yıldız Teknik Üniversitesi Gemi İnşaatı ve Gemi Makineleri Mühendisliği Bölümü'nden mezun olmuştur. Aynı yıl yüksek lisans eğitimine başlamıştır. 2007-2009 yılları arasında Dearsan Tersanesi Askeri Projeler Dizayn Ofisi'nde Yeni Tip Karakol Botu projesinde Dizayn Mühendisi olarak çalışmıştır. Aralık 2017'de "Denizaltı Kıç Formunun Sayısal ve Deneysel Olarak İncelenmesi" başlıklı doktora tezini bitirmiştir. Şubat 2009'dan itibaren YTÜ Gemi İnşaat ve Gemi Makineleri Mühendisliği Bölümü'nde araştırma görevlisi olarak çalışmış, Nisan 2018'den itibaren de görevine Dr. Öğretim Üyesi olarak devam etmektedir.

Learning Knowledge

Doctorate 2010 - 2017	Yıldız Technical University, Fen Bilimleri, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği, Turkey
Postgraduate 2008 - 2010	Yıldız Technical University, Fen Bilimleri, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği, Turkey
Undergraduate 2004 - 2008	Yıldız Technical University, Faculty Of Mechanical Engineering, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği, Turkey

Foreign Languages

English, C1 Advanced

French, C1 Advanced

German, C1 Advanced

Dissertations

Doctorate, DENİZALTI KIÇ FORMUNUN SAYISAL VE DENEYSEL OLARAK İNCELENMESİ, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Gemi İnşaatı A.B.D., 2017

Postgraduate, PODLU SEVK SİSTEMLERİNİN PERFORMANS ANALİZİ VE ÇEVREYE OLAN ETKİLERİNİN İNCELENMESİ, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Gemi İnşaatı Ve Gemi Makineleri

Academic Titles / Tasks

Assistant Professor
2018 - Continues

Yildiz Technical University, Naval Architecture And Maritime Faculty, Department
Of Naval Architecture And Marine Engineering

Research Assistant
2009 - 2018

Yildiz Technical University, Naval Architecture And Maritime Faculty, Department
Of Naval Architecture And Marine Engineering

Supported Projects

1. Bakirman T., Vardar N., Bayram B., Şener B., Balık Şanlı F., Çelebi U. B., Çoşgun T., Yurtseven A., ARIKAN ÖZDEN Y., TÜBİTAK International Multi-Cooperation Project, Autonomous network system with specialized and integrated multi-sensor technology for dynamic monitoring of marine pollution, 2022 - 2025
2. Arıkan Özden Y., Çelik F., Project Supported by Higher Education Institutions, Denizaltı Kıç Formunun Sayısal ve Deneysel olarak Optimizasyonu, 2015 - 2018
3. Arıkan Özden Y., Project Supported by Other Official Institutions, Zıt Dönüştürücü Pervane Sistemi, 2013 - 2014
4. Çelik F., Arıkan Özden Y., Doğrul A., Project Supported by Higher Education Institutions, İki ve Üç Boyutlu Hidrofoiller Üzerinde Tabaka Kaviteleşiminin BEM'e dayalı İteratif bir Yöntem ile Tahmini, 2012 - 2014
5. Arıkan Özden Y., Güneş Ü., Altunsaray E., Türkmen S., Alkan A. D., Project Supported by Other Private Institutions, Energy Efficient Hull Form Design for A Pleasure Boat Powered by A Solar-Hydrogen Energy System , 2009 - 2012

Awards

1. Arıkan Özden Y., Derin Arayışlar Lisans Katerogisinde 3.'lük Ödülü (Tez Danışmanı), Derin Arayışlar Stm Denizaltı Tasarımı Ve Teknolojileri Yarışması, November 2019

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Experimental and Numerical Investigation of DARPA Suboff Submarine Propelled with INSEAN E1619 Propeller for Self-Propulsion**
ARIKAN ÖZDEN Y., ARIKAN ÖZDEN Y., Demir E., Kurdoglu S.
JOURNAL OF SHIP RESEARCH, vol.63, no.4, pp.235-250, 2019 (SCI-Expanded)
2. **Underwater radiated noise prediction for a submarine propeller in different flow conditions**
Ozden M. C., Gurkan A. Y., Ozden Y., Canyurt T. G., Korkut E.
OCEAN ENGINEERING, vol.126, pp.488-500, 2016 (SCI-Expanded)
3. **Numerical simulation of flow around two- and three-dimensional partially cavitating hydrofoils**
ÇELİK F., Ozden Y., Bal Ş.
OCEAN ENGINEERING, vol.78, pp.22-34, 2014 (SCI-Expanded)
4. **Performance Analysis and Investigation of the Slipstream Flow of Podded Propellers**
Arıkan Y., DOĞRUL A., ÇELİK F.
BRODOGRADNJA, vol.63, no.3, pp.226-233, 2012 (SCI-Expanded)

Articles Published in Other Journals

1. **Numerical investigation of the resistance and static drift condition of the autosub submarine**
Çıplakkaya S. N., Arıkan Özden Y.
Seatific Journal, vol.3, no.2, pp.71-84, 2023 (Peer-Reviewed Journal)
2. **Numerical Investigation of the Maneuvering Forces of Different DARPA Suboff Configurations for Static Drift Condition**
Öztürk H., Gündüz K. B., Arıkan Özden Y.
JOURNAL OF ETA MARITIME SCIENCE, vol.11, no.3, pp.137-147, 2023 (ESCI)
3. **Assessment of Stirling Engine Based Air Independent Propulsion Systems in Submarines**
Gündüz K. B., Arıkan Özden Y.
Gemi ve Deniz Teknolojisi, no.221, pp.134-162, 2022 (Peer-Reviewed Journal)
4. **Numerical Investigation of Self Propulsion of BB2 Joubert Submarine Form**
Arıkan Özden Y., Acar A.
Gemi ve Deniz Teknolojisi, vol.220, pp.22-45, 2021 (Peer-Reviewed Journal)
5. **Numerical Investigation of the Effects of Underwater Aft Cone Angle and Length-to-Beam Ratio on Hull Efficiency**
ARIKAN ÖZDEN Y., ÇELİK F.
Gemi ve Deniz Teknolojisi, no.208, pp.71-88, 2017 (Peer-Reviewed Journal)
6. **DENİZALTI KIÇ KONİKLİK AÇISININ VE BOY-GENİŞLİK ORANININ TEKNE VERİMİ ÜZERİNE ETKİLERİNİN SAYISAL OLARAK İNCELENMESİ**
Arıkan Özden Y., Çelik F.
Gemi ve Deniz Teknolojisi, no.208, pp.71-87, 2017 (Peer-Reviewed Journal)
7. **Numerical simulation of the flow around two-dimensional partially cavitating hydrofoils**
ÇELİK F., Ozden Y., Bal Ş.
Journal of Marine Science and Application, vol.13, no.3, pp.245-254, 2014 (ESCI)
8. **A Numerical Investigation of Multiphase Flow and Oil Spill in Istanbul Strait**
Doğrul A., Arıkan Özden Y., Çelik F.
The Online Journal of Science and Technology, vol.1, no.2, pp.8-15, 2011 (Peer-Reviewed Journal)
9. **Podlu Sevk Sistemlerinin Çevreye Olan Etkilerinin Sayısal Olarak İncelenmesi**
Arıkan Özden Y., Doğrul A., Çelik F.
Gemi ve Deniz Teknolojisi, no.186, pp.4-12, 2010 (Peer-Reviewed Journal)
10. **Gemi Sevk Sistemleri Tarihine Bakış**
ARIKAN ÖZDEN Y., DOĞRUL A., ÇELİK F.
Gemi ve Deniz Teknolojisi, no.186, pp.13-19, 2010 (Peer-Reviewed Journal)
11. **Numerical Analysis of Sheet Cavitation for two Dimensional Hydrofoils**
EKİNCİ S., ARIKAN ÖZDEN Y., ÇELİK F.
Ovidius University Annual Scientific Journal, vol.12, no.1, pp.7-14, 2010 (Peer-Reviewed Journal)
12. **Türkiye Karasularında Petrol Sızıntısı Tehlikesine Karşın Petrol Temizleme Gemisi İhtiyacı ve Petrol Temizleme Gemisi Dizayn Gereklere**
TÜRKMEN S., ŞENER B., ARIKAN ÖZDEN Y.
Gemi ve Deniz Teknolojisi Dergisi, vol.1, pp.7-12, 2010 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

1. **The Importance of Interdisciplinary Education in the Design of Floating Structures: Naval Architecture and Marine Engineering and Architecture Cooperation**
Arıkan Özden Y., Dağgülü İ. B.
International Maritime Lecturers Association Conference IMLA, İstanbul, Turkey, 25 - 28 September 2024
2. **Numerical Investigation of different Length to Beam (L/B) Ratios on the Static Drift Condition of the Autosub Underwater vehicle**
Şahin Y., Arıkan Özden Y.

Global Maritime Congress GMC'24, İstanbul, Turkey, 20 - 21 May 2024, vol.1, no.1, pp.301-310

3. **Investigating the Impact of Propeller Pitch, Blade Area Ratio, Skew, and Rake Angle on Cavitation**
Türel A. C., Arıkan Özden Y.
Global Maritime Congress GMC'24, İstanbul, Turkey, 20 - 21 May 2024, vol.1, no.1, pp.286-291
4. **SMARTPOL AUTONOMOUS NETWORK SYSTEM WITH SPECIALIZED AND INTEGRATED MULTISENSOR TECHNOLOGY FOR DYNAMIC MONITORING OF MARINE POLLUTION**
VARDAR N., BAYRAM B., ŞENER B., BAKIRMAN T., ARIKAN ÖZDEN Y., Genç N., Boujmil I., Pierucci M., Gatt T., Scerri J., et al.
JPI OCEANS MarTERA Project Meeting, Bruksel, Belgium, 22 November 2023
5. **Intact and Damaged Stability Assessment of the BB2 Joubert Submarine**
Eken S., Arıkan Özden Y.
INT-NAM'23 4th International Naval Architecture and Maritime Conference, İstanbul, Turkey, 11 - 13 October 2023, pp.1-19
6. **Experimental and Numerical Investigation of DARPA Suboff Submarine propelled with INSEAN E1619 Propeller for Self-Propulsion**
ARIKAN ÖZDEN Y., Özden M. C., Demir E., Kurdođlu S.
32th Symposium on Naval Hydrodynamics, Hamburg, Germany, 05 August 2018, pp.56
7. **Four Quadrant Thrust and Torque Prediction of INSEAN E-1619 Generic Submarine Propeller for Submarine Maneuvering Simulations**
Burunsuz S., Özden M. C., ARIKAN ÖZDEN Y., Helvaciođlu İ. H.
Fifth International Symposium on Marine Propulsors, Helsinki, Finland, 12 June 2017, pp.1500-1510
8. **Numerical Investigation of Submarine Tail Form on the Hull Efficiency**
ARIKAN ÖZDEN Y., Özden M. C., ÇELİK F.
Fifth International Symposium on Marine Propulsors, Helsinki, Finland, 12 June 2017, pp.1000-1010
9. **Denizaltı Kıç Koniklik Açısının ve Boy Genişlik Oranının Tekne Verimi Üzerine Etkilerinin Sayısal olarak İncelenmesi**
ARIKAN ÖZDEN Y., ÇELİK F.
GMO SHIPMAR - 1st International Congress on Ship and Marine Technology, 08-09 December 2016. İstanbul Turkey, 8 - 09 December 2016
10. **Optimal Geometry for 3D Supercavitating Hydrofoils**
ÇELİK F., BAL Ş., ÖZDEN Y. A.
01 October 2014
11. **4 Kanatlı Wageningen B Serisi Pervanelerin Dizaynı İçin Pratik Yaklaşımlar**
EKİNCİ S., ÇELİK F., ARIKAN ÖZDEN Y.
Gemi İnşaatı ve Deniz Teknolojisi Teknik Kongresi 2012, İstanbul, Turkey, 13 December 2012, pp.143-158
12. **İki Boyutlu Hidrofoiller Üzerindeki Kısmi Kavıtasyonun Sayısal Olarak İncelenmesi**
ARIKAN ÖZDEN Y., ÇELİK F., bal ş.
Gemi İnşaatı ve Deniz Teknolojisi Teknik Kongresi, İstanbul, Turkey, 13 December 2012, pp.159-174
13. **Prediction of cavitation on two- and three- dimensional hydrofoils by an iterative BEM**
Arıkan Özden Y.
International Symposium on Cavitation, Singapore, Singapore, 14 - 16 August 2012, pp.696-702
14. **Prediction of Cavitation on Two and Three Dimensional Hydrofoils by An Iterative BEM**
ARIKAN ÖZDEN Y., ÇELİK F., DOĞRUL A., BAL Ş.
8th International Symposium on Cavitation, 13 - 16 August 2012, pp.1
15. **Practical Approaches for Design of 4 Bladed Wageningen B Series Propellers**
EKİNCİ S., ÇELİK F., ARIKAN ÖZDEN Y.
1st International Symposium on Naval Architecture and Maritime (INT-NAM 2011) Proceedings, İstanbul, Turkey, 24 October 2011, vol.1, pp.441-454
16. **Cooling System Design for a Fuel Cell Powered Pleasure Boat 1st International Symposium on Naval Architecture and Maritime**
ARIKAN ÖZDEN Y., ÇELİK F., GÜNEŞ Ü.

1st International Symposium on Naval Architecture and Maritime, İstanbul, Turkey, 24 - 25 October 2011, vol.1, pp.119-124

17. **Investigation Of Optimum Duct Geometry For A Passenger Ferry**
ÇELİK F., DOĞRUL A., ARIKAN ÖZDEN Y.
9th High Speed Marine Vessels Symposium, 26 - 27 May 2011, pp.1
18. **Energy Efficient Hull Form Design For A Pleasure Boat Powered By A Solar Hydrogen Energy System**
ÇELİK F., DOĞRUL A., ARIKAN ÖZDEN Y.
9th High Speed Marine Vessels Symposium, 26 - 27 May 2011, pp.1
19. **A Numerical Investigation of Multiphase Flow and Oil Spill in Istanbul Strait**
DOĞRUL A., ARIKAN ÖZDEN Y., ÇELİK F.
International Science and Technology Conference 2010, 27 - 29 October 2010, pp.1

Academic and Administrative Experience

2018 - 2020	Deputy Head of Department	Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Naval Architecture And Marine Engineering
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Courses

Gemi Teorisi, Undergraduate, 2023 - 2024

Ship Hydrostatic and Stability, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

Interdisciplinary Project 1, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Ship Resistance and Propulsion, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

Gemi Mühendisliğinde Deney Teknikleri, Postgraduate, 2023 - 2024

Advising Theses

Arıkan Özden Y., AUTOSUB SUALTI ARACININ FARKLI BOY GENİŞLİK ORANLARI VE DERİNLİK GENİŞLİK ORANLARI İÇİN YANAL HIZDA MANEVRA TÜREVLERİNİN ELDE EDİLMESİ, Postgraduate, Y.ŞAHİN(Student), 2024

Arıkan Özden Y., Gemi pervanelerinde oluşan kavitasyonun sayısal olarak incelenmesi, Postgraduate, A.CAN(Student), 2024

Arıkan Özden Y., Autosub Su Altı Aracının Direnç ve Yanal Hızda Manevra Özelliklerinin Sayısal Olarak İncelenmesi, Postgraduate, S.NUR(Student), 2023

Arıkan Özden Y., INVESTIGATION OF THE STABILITY OF THE SURFACED AND SUBMERGED BB2 JOUBERT SUBMARINE ACCORDING TO DNV RULES, Postgraduate, S.EKEN(Student), 2023

Arıkan Özden Y., DARPA SUBOFF DENİZALTI MODELİNİN PERVANESİZ VE PERVANELİ OLARAK STATİK DRİFT DURUMUNDA MANEVRA KUVVETLERİNİN İNCELENMESİ, Postgraduate, H.ÖZTÜRK(Student), 2023

Arıkan Özden Y., Yeni Bir Havadan Bağımsız Tahrik Sistemi Kullanarak Konsept Denizaltı Tasarımı, Postgraduate, K.BEYTULLLAH(Student), 2022

Arıkan Özden Y., Numerical Investigation of Tail Cone Geometry on The Propulsive Performance of The BB2 Joubert Submarine, Postgraduate, A.ACAR(Student), 2022

Metrics

Publication: 40

Citation (WoS): 44

Citation (Scopus): 148

H-Index (WoS): 4

H-Index (Scopus): 5

Research Areas

Naval Architecture and Marine Engineering, Ship Hydromechanics, Ship Construction, Engineering and Technology

Non Academic Experience

Business Establishment Private, Propod Ltd.Şti.

Propod Pervane ve Sevk Sistemleri Tic. Ltd. Şti.

Business Establishment Private, Dearsan Tersanesi

Dearsan Tersanesi