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Kişisel Bilgiler

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Eđitim Bilgileri

Doktora, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakóltesi, Kimya Bölümü, Türkiye
2004 - 2010

Yabancı Diller

İngilizce

Yaptığı Tezler

Doktora, Simetrik ve asimetrik ftalosiyanınların sentezi, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakóltesi, Kimya Bölümü, 2010

Araştırma Alanları

Çevre Mühendisliđi, Yapay Zeka, Bilgisayarda Öğrenme ve Örüntü Tanıma, Gemi Makinaları, Kimya

Akademik Unvanlar / Görevler

Prof.Dr., İstanbul Teknik Üniversitesi, Denizcilik, Temel Bilimler, 2020 - Devam Ediyor

Akademik İdari Deneyim

Anabilim/Bilim Dalı Başkanı, İstanbul Teknik Üniversitesi, Lisansüstü Eğitim Enstitüsü, Deniz Ulaştırma Mühendisliđi,
2021 - Devam Ediyor

Bölüm Başkanı, İstanbul Teknik Üniversitesi, Denizcilik, Temel Bilimler, 2021 - Devam Ediyor

Fakülte Yönetim Kurulu Üyesi, İstanbul Teknik Üniversitesi, Denizcilik, Temel Bilimler, 2020 - Devam Ediyor
Fakülte Kurulu Üyesi, İstanbul Teknik Üniversitesi, Denizcilik, Temel Bilimler, 2020 - Devam Ediyor
BAP Koordinatörü, İstanbul Teknik Üniversitesi, Denizcilik, Temel Bilimler, 2014 - 2017
İstanbul Teknik Üniversitesi, Denizcilik Fakültesi, Gemi Makineleri İşletme Mühendisliği Bölümü, 2014 - 2015

Verdiği Dersler

Gemilerde Enerji Yönetimi, Yüksek Lisans, 2021 - 2022
Denizcilikte Teknoloji ve Yenilik Yönetimi, Yüksek Lisans, 2021 - 2022
Denizcilikte Çevre Yönetimi, Yüksek Lisans, 2021 - 2022
Bilimsel Araştırma, Etik ve Seminer, Yüksek Lisans, 2021 - 2022
Denizcilik Eğitimi Çalışmaları, Yüksek Lisans, 2021 - 2022
İleri Denizcilik Kimyası, Yüksek Lisans, 2020 - 2021
Gemilerde Enerji Yönetimi, Yüksek Lisans, 2021 - 2022
Deniz Ulaştırma Mühendisliğinde Özel Konular, Yüksek Lisans, 2021 - 2022
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Yönetilen Tezler

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Arslanoğlu Y., Gemi elektrik şebekelerinde derin öğrenme uygulamaları, Doktora, T.UYANIK(Öğrenci), 2023
Arslanoğlu Y., Denizcilikte kompleks sistem kaza analizi için yeni bir model önerisi, Doktora, B.OZAN(Öğrenci), 2023
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Arslanoğlu Y., Kaya T., Konteyner Liman Operasyonlarının Makine Öğrenmesi Yöntemleri ile Analizi, Doktora, Ü.ATAK(Öğrenci), 2022
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Arslanoğlu Y., İstanbul Boğazı'ndaki gemi kazaları ve arızalarının analizi, Yüksek Lisans, C.GÜRSOY(Öğrenci), 2021
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Arslanoğlu Y., Gemilerde karina temizliğinin enerji verimliliğine etkisi, Yüksek Lisans, P.KARABIYIK(Öğrenci), 2021
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Arslanoğlu Y., Gemi kaynaklı egzoz emisyonları azaltma yöntemlerinin karşılaştırmalı analizi, Yüksek Lisans, E.EJDER(Öğrenci), 2020
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Arslanoğlu Y., Türk gemi adamlarının uluslararası piyasada tercih edilirliliğinin ve istihdamının artırılması için model

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Comparative Life Cycle Assessment of Alternative Marine Fuels**
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Fuel, cilt.358, 2024 (SCI-Expanded)
- II. **A risk assessment of scrubber use for marine transport by rule-based fuzzy FMEA**
Karatuğ Ç., Ceylan B. O., Arslanoğlu Y.
Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, cilt.238, sa.1, ss.114-125, 2024 (SCI-Expanded)
- III. **Cost-benefit analysis of emission reduction techniques: a case for container vessel**
Ejder E., Karatuğ Ç., Arslanoğlu Y.
Journal of Marine Engineering and Technology, 2024 (SCI-Expanded)
- IV. **A system theory (STAMP) based quantitative accident analysis model for complex engineering systems**
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SAFETY SCIENCE, cilt.166, ss.106232, 2023 (SCI-Expanded)
- V. **Design of a decision support system to achieve condition-based maintenance in ship machinery systems**
Karatuğ Ç., Arslanoğlu Y., Guedes Soares C.
Ocean Engineering, cilt.281, 2023 (SCI-Expanded)
- VI. **A Data-Driven Approach for Generator Load Prediction in Shipboard Microgrid: The Chemical Tanker Case Study**
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- VII. **A novel approach for the analysis of engineering complex system accidents: The casualty of the M/V Vitaspirit**
Ceylan B. O., Elidolu G., Arslanoğlu Y.
Ocean Engineering, cilt.276, 2023 (SCI-Expanded)
- VIII. **Operational risk assessment of ballasting and de-ballasting on-board tanker ship under FMECA extended Evidential Reasoning (ER) and Rule-based Bayesian Network (RBN) approach**
Elidolu G., Sezer S. I., Akyüz E., Arslan Ö., Arslanoğlu Y.
Reliability Engineering and System Safety, cilt.231, 2023 (SCI-Expanded)
- IX. **Review of maintenance strategies for ship machinery systems**
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- X. **Determination of a maintenance strategy for machinery systems of autonomous ships**
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Ocean Engineering, cilt.266, 2022 (SCI-Expanded)
- XI. **Evaluation of ammonia fueled engine for a bulk carrier in marine decarbonization pathways**
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- XII. **Feasibility Analysis of the Effects of Scrubber Installation on Ships**
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- XIII. **A novel methodology for the use of engine simulators as a tool in academic studies**
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JOURNAL OF MARINE SCIENCE AND TECHNOLOGY, cilt.27, sa.4, ss.1220-1232, 2022 (SCI-Expanded)
- XIV. **Data-Driven Approach for Estimating Power and Fuel Consumption of Ship: A Case of Container**

Vessel

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- XV. **Development of condition-based maintenance strategy for fault diagnosis for ship engine systems**
Karatuğ Ç., Arslanoğlu Y.
OCEAN ENGINEERING, cilt.256, ss.111515, 2022 (SCI-Expanded)
- XVI. **Modified quantitative systems theoretic accident model and processes (STAMP) analysis: A catastrophic ship engine failure case**
Ceylan B. O., Akyüz E., Arslanoğlu Y.
OCEAN ENGINEERING, cilt.253, 2022 (SCI-Expanded)
- XVII. **Thermoelectric Generators as an Alternative Energy Source in Shipboard Microgrids**
Uyanık T., Ejder E., Arslanoğlu Y., Yalman Y., Terriche Y., Su C., Guerrero J. M.
Energies, cilt.15, sa.12, 2022 (SCI-Expanded)
- XVIII. **Machine learning methods for predicting marine port accidents: a case study in container terminal**
Atak Ü., Arslanoğlu Y.
SHIPS AND OFFSHORE STRUCTURES, cilt.17, sa.11, ss.2480-2487, 2022 (SCI-Expanded)
- XIX. **Importance of early fault diagnosis for marine diesel engines: a case study on efficiency management and environment**
Karatuğ Ç., Arslanoğlu Y.
Ships and Offshore Structures, cilt.17, sa.2, ss.472-480, 2022 (SCI-Expanded)
- XX. **Quantitative failure analysis for static electricity-related explosion and fire accidents on tanker vessels under fuzzy bow-tie CREAM approach**
Elidolu G., Akyüz E., Arslan Ö., Arslanoğlu Y.
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- XXI. **Machine learning based visibility estimation to ensure safer navigation in strait of Istanbul**
Uyanık T., Karatuğ Ç., Arslanoğlu Y.
Applied Ocean Research, cilt.112, 2021 (SCI-Expanded)
- XXII. **Machine learning approach to ship fuel consumption: A case of container vessel**
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- XXIII. **An analysis and comparison of multinational officers of the watch in the global maritime labor market**
Kartal S. E., UĞURLU Ö., Kaptan M., Arslanoğlu Y., Wang J., Loughney S.
MARITIME POLICY & MANAGEMENT, cilt.46, sa.6, ss.757-780, 2019 (SSCI)
- XXIV. **Iron-Catalyzed Synthesis of Indenones through Cyclization of Carboxamides with Alkynes**
ILIES L., Arslanoglu Y., MATSUBARA T., NAKAMURA E.
ASIAN JOURNAL OF ORGANIC CHEMISTRY, cilt.7, sa.7, ss.1327-1329, 2018 (SCI-Expanded)
- XXV. **Photophysicochemical behaviour and antimicrobial properties of monocarboxy Mg (II) and Al (III) phthalocyanine-magnetite conjugates**
IDOWU M. A., XEGO S., Arslanoglu Y., MARK J., ANTUNES E., NYOKONG T.
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- XXVI. **Synthesis and photophysical properties of phthalocyanines having calixpyrrole units**
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- XXVII. **Electrochemical and morphological analysis on novel phthalocyanine grafted conductive polymeric nanofibers**
Gökçeören A. T., KAPLAN E., Arslanoğlu Y.
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- XXVIII. **Polyamide Nanofiber Membranes Functionalized with Zinc Phthalocyanines**
Goethals A., MUGADZA T., Arslanoglu Y., ZUGLE R., ANTUNES E., VAN HULLE S. W. H., NYOKONG T., DE CLERCK K.

JOURNAL OF APPLIED POLYMER SCIENCE, cilt.131, sa.13, 2014 (SCI-Expanded)

- XXIX. **Spectral properties and photophysical behaviour of water soluble cationic Mg(II) and Al(III) phthalocyanines**
Idowu M. A., Arslanoglu Y., NYOKONG T.
CENTRAL EUROPEAN JOURNAL OF CHEMISTRY, cilt.12, sa.3, ss.403-415, 2014 (SCI-Expanded)
- XXX. **Synthesis of non-peripherally and peripherally substituted zinc (II) phthalocyanines bearing pyrene groups via different routes and their photophysical properties**
Surgun S., Arslanoğlu Y., HAMURYUDAN E.
DYES AND PIGMENTS, cilt.100, ss.32-40, 2014 (SCI-Expanded)
- XXXI. **Synthesis, electrochemical and photophysical studies of axially substituted quarternizable titanyl phthalocyanines**
Arslanoğlu Y., HAYRAN E., HAMURYUDAN E.
DYES AND PIGMENTS, cilt.97, sa.2, ss.340-346, 2013 (SCI-Expanded)
- XXXII. **Synthesis and photophysical properties of peripherally and non-peripherally mercaptopyrindine substituted metal free, Mg(II) and Al(III) phthalocyanines**
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SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, cilt.95, ss.407-413, 2012 (SCI-Expanded)
- XXXIII. **Photophysical behaviour of cationic 2-(dimethylamino) ethanethio tetrasubstituted phthalocyanine complexes in the presence of gold nanoparticles**
Mthethwa T. P., Arslanoglu Y., ANTUNES E., NYOKONG T.
POLYHEDRON, cilt.38, sa.1, ss.169-177, 2012 (SCI-Expanded)
- XXXIV. **Characterization of 2,(3)-tetra-(4-oxo-benzamide) phthalocyaninato cobalt (II)-Single walled carbon nanotube conjugate platforms and their use in electrocatalysis of amitrole**
Mugadza T., Arslanoglu Y., NYOKONG T.
ELECTROCHIMICA ACTA, cilt.68, ss.44-51, 2012 (SCI-Expanded)
- XXXV. **Synthesis and photophysical studies of monocarboxy phthalocyanines containing quaternizable groups**
Arslanoglu Y., NYOKONG T.
POLYHEDRON, cilt.30, sa.16, ss.2733-2739, 2011 (SCI-Expanded)
- XXXVI. **Electrochemical behavior of phthalocyanines containing high oxidation state central metals: Titanium(IV), vanadium(IV), and tantalum(V)**
Chauke V. P., Arslanoglu Y., NYOKONG T.
POLYHEDRON, cilt.30, sa.12, ss.2132-2139, 2011 (SCI-Expanded)
- XXXVII. **Synthesis and photophysical behaviour of tantalum and titanium phthalocyanines in the presence of gold nanoparticles: Photocatalysis towards the oxidation of cyclohexene**
Chauke V. P., Arslanoglu Y., NYOKONG T.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, cilt.221, sa.1, ss.38-46, 2011 (SCI-Expanded)
- XXXVIII. **The synthesis and electrochemical study of novel phthalocyanines substituted with a crown ether and alkyl chains**
Arslanoğlu Y., Koca A., Hamuryudan E.
DYES AND PIGMENTS, cilt.88, sa.2, ss.135-142, 2011 (SCI-Expanded)
- XXXIX. **Voltammetric and spectroelectrochemical properties of titanylphthalocyanines bearing catecholato and naphthalenediolato moieties**
Koca A., ARSLANOGLU Y., Hamuryudan E.
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- XL. **Synthesis of novel unsymmetrical phthalocyanines substituted with crown ether and nitro groups**
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- XLI. **Electrochemistry, spectroelectrochemistry and electrochemical polymerization of titanylphthalocyanines**

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XLII. Synthesis and derivatization of near-IR absorbing titanylephthalocyanines with dimethylaminoethylsulfanyl substituents

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XLIII. Near-IR absorbing phthalocyanines

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Diğer Dergilerde Yayınlanan Makaleler

- I. Environmental and Economic Evaluation of Dual-Fuel Engine Investment of a Container Ship**
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- II. An MDCM approach for risk assessment at the polar regions: analysing the antarctic route ice navigation risk parameters**
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- III. Risk assessment of sea chest fouling on the ship machinery systems by using both FMEA method and ERS process**
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- IV. Analysing the Effects of Weather Conditions on Container Terminal Operations Using Machine Learning**
Atak Ü., Kaya T., Arslanoğlu Y.
International Journal of Business Analytics, cilt.9, sa.5, ss.1-17, 2022 (Scopus)

Kitap & Kitap Bölümleri

- I. Investigation of Main Engine Turbocharger Fouling Effects on Fuel Oil Consumption by Using Engine Room Simulator**
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- II. SWOT Analysis of Carbon Capture, Storage, and Transportation for Maritime Industry**
ZİNCİR B. A., ZİNCİR B., ARSLANOĞLU Y.
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- III. Investigation and Examination of LNG, Methanol, and Ammonia Usage on Marine Vessels**
KARATUĞ Ç., CEYLAN B. O., Ejder E., ARSLANOĞLU Y.
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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. Mucilage-related risk assessment in the Marmara Sea using AHP-TOPSIS methods**
ELİDOLU G., ATAK Ü., DESTANOĞLU O., ARSLANOĞLU Y.

4th Global Conference on Innovation in Marine Technology and the Future of Maritime Transportation (GMC'21), Türkiye, 18 Kasım 2021

II. Ammonia, And Methanol as a Marine Fuel,

KARATUĞ Ç., CEYLAN B. O., ARSLANOĞLU Y.

4th Global Conference on Innovation in Marine Technology and the Future of Maritime Transportation (GMC'21), Türkiye, 18 - 19 Kasım 2021

III. Effect of Mucilage Pollution on Ship Energy Efficiency

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IV. Introducing a digital training system for safe Turkish Straits

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V. A MACHINE LEARNING APPROACH FOR SOLAR POWER PLANT ELECTRICAL POWER ESTIMATION

UYANIK T., Yılmaz O., ARSLANOĞLU Y.

5th International Anatolian Energy Symposium 24-25 March 2021 (AES 2021), Trabzon, Türkiye, 24 - 26 Mart 2021, ss.412-417

VI. Hull cleaning effects on CO2 emissions: estimation with machine learning methods

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VII. Analysis of Ship Fuel Consumption Through Multiple Linear Regression

Karatuğ Ç., Arslanoğlu Y.

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VIII. Data-Driven Approach For Estimation Of Marine Vessel's Fuel Oil Consumption

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IX. The Effect of Ship's Body And Propeller Condition on The Energy Efficiency of The Marine Vessels

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X. Seafarer personnel selection with Fuzzy AHP

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XII. Ship Electrical Power Estimation with Machine Learning

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XIII. Container Terminal Workload Modeling Using Machine Learning Techniques

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XIV. Marine Corrosion Protection via Nanocoatings

güler i., ARSLANOĞLU Y., BEJİ S.

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- XV. **The Determination of the geographical origins of Ezine cheese by multi-elemental fingerprinting**
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- XVI. **Estimation of safe work behavior of seafarers using Artificial Neural Network**
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- XVII. **Ship Fuel Consumption Prediction with Machine Learning**
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- XVIII. **A Sensor Application for Oceanographic Drifter**
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- XIX. **Low Cost Sensor System Design for Lagrangian Drifter at Turkish Straits**
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- XX. **ENERGY OPTIMIZATION BY DETERMINING PID COEFFICIENTS BY GENETIC ALGORITHM IN MARINE DUAL FUEL ENGINE**
UYANIK T., ARSLANOĞLU Y., KALENDERLİ Ö.
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- XXI. **INVESTIGATION OF THE SHIPS LIGHTNING PROTECTION SYSTEMS**
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- XXIII. **Ship Fuel Consumption And Emission Amount Modelling And Minimization With Fuzzy Logic**
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- XXVIII. **Phthalocyanine Based Anti Corrosive Materials**
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- Yayın: 88
- Atf (WoS): 438
- Atf (Scopus): 751
- H-İndeks (WoS): 13
- H-İndeks (Scopus): 16

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