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Personal Information

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International Researcher IDs

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Education Information

Doctorate, Yildiz Technical University, Naval Architecture And Maritime Faculty, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği, Turkey 2012 - 2018

Postgraduate, Yildiz Technical University, Naval Architecture And Maritime Faculty, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği, Turkey 2009 - 2012

Undergraduate, Yildiz Technical University, Faculty Of Mechanical Engineering, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği, Turkey 2002 - 2007

Certificates, Courses and Trainings

Vocational Training, Denizde Güvenlik Eğiticileri Eğitimi, İstanbul Teknik Üniversitesi, 2016

Vocational Training, Türkiye'de Denizcilik Eğitimi ve Öğretiminin Geliştirilmesi Konulu İleri Yangınla Mücadele Eğitimi, İstanbul Teknik Üniversitesi, 2013

Occupational Health and Safety, C Sınıfı İş Güvenliği Uzmanlığı Eğitimi Programı, Yıldız Teknik Üniversitesi, 2013

Vocational Training, TRANSAS ERS 4000 Simülâtör Kullanıcı Eğitimi, Dokuz Eylül Üniversitesi, 2011

Vocational Training, TRANSAS NTPRO 5000 Simülâtör Kullanıcı Eğitimi, Dokuz Eylül Üniversitesi, 2011

Quality Management, Denizcilik Eğitimi veren Kurum/Kuruluşların STCW Sözleşmenin I/8 kuralı gereği Sürekli İzlenmesine ve Değerlendirilmesine Yönelik Kalite Standartları Denetçi Eğitimi , MINISTRY OF TRANSPORT, MARITIME AND COMMUNICATIONS, 2010

Dissertations

Doctorate, Gemi kaynaklı emisyonların farklı yöntemlerle incelenmesi, Yildiz Technical University, Graduate School of Natural and Applied Sciences, 2018

Postgraduate, Gemi ana makinesi yardımcı sistemlerine yönelik simülâtör algoritmasının geliştirilmesi ve uygulanması, Yildiz Technical University, Graduate School of Natural and Applied Sciences, 2012

Research Areas

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

Academic Titles / Tasks

Assistant Professor, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Marine Engineering Operations, 2020 - Continues

Lecturer PhD, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Marine Engineering Operations, 2018 - 2020

Expert, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Marine Engineering Operations, 2009 - 2018

Academic and Administrative Experience

Director of Continuing Education Center, Yildiz Technical University, Rectorate, 2021 - Continues

Rector's Advisor, Yildiz Technical University, Rectorate, 2020 - 2024

Denizcilik Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Yildiz Technical University, Naval Architecture And Maritime Faculty, 2019 - 2022

Deputy Director of Continuing Education Center, Yildiz Technical University, Rectorate, 2019 - 2021

Rector's Advisor, Yildiz Technical University, Rectorate, 2017 - 2020

Rektörlük Kalite Sorumlusu, Yildiz Technical University, Rectorate, 2016 - 2019

Head of Department, Yildiz Technical University, Rectorate, 2016 - 2019

Fakülte IMO Kalite Koordinatörü, Yildiz Technical University, Naval Architecture And Maritime Faculty, 2015 - 2018

Courses

Maritime Safety III, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

Marine Auxiliary Machinery I, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2018 - 2019

Maritime Safety and Security 1, Undergraduate, 2024 - 2025

Maritime Rules & Regulations, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

Formation and Expansin of Exhaust Gas Emmissions from Ships, Postgraduate, 2023 - 2024

Maritime Safety I, Undergraduate, 2023 - 2024, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

Occupational Health and Safety 2, Undergraduate, 2021 - 2022

Introduction to Marine Engineering, Undergraduate, 2022 - 2023, 2021 - 2022, 2017 - 2018

Safety and Security at Sea 2, Undergraduate, 2020 - 2021, 2019 - 2020

Basic Sailing Training, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019

Ship Emissions, Undergraduate, 2020 - 2021, 2019 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Enhancing the efficiency of sodium borohydride hydrolysis with a novel CoB-Triton catalyst**
Kaya C., ÖZDEMİR J. H., ELÇİÇEK H., ÖZDEMİR O. K., KÖKKÜLÜNK G., ÜNLÜGENÇOĞLU K.
International Journal of Hydrogen Energy, vol.51, pp.489-503, 2024 (SCI-Expanded)
- II. **Effect of the low sulphur regulations of maritime fuels on ambient air quality: a case study in the Bosphorus strait**
Ekmeçioğlu A., Çelebi U. B., Ünlügençoğlu K., Kuzu S. L.
International Journal of Environmental Science and Technology, 2024 (SCI-Expanded)
- III. **Container ship emission estimation model for the concept of green port in Turkey**
EKMEKÇİOĞLU A., Unlugencoglu K., Celebi U. B.

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART M-JOURNAL OF ENGINEERING FOR THE MARITIME ENVIRONMENT, vol.236, no.2, pp.504-518, 2022 (SCI-Expanded)

- IV. **Estimation of shipping emissions based on real-time data with different methods: A case study of an oceangoing container ship**
EKMEKÇİOĞLU A., ÜNLÜGENÇOĞLU K., ÇELEBİ U. B.
ENVIRONMENT DEVELOPMENT AND SUSTAINABILITY, vol.24, pp.4451-4470, 2022 (SCI-Expanded)
- V. **Assessment of shipping emission factors through monitoring and modelling studies**
EKMEKÇİOĞLU A., KUZU S. L., ÜNLÜGENÇOĞLU K., ÇELEBİ U. B.
SCIENCE OF THE TOTAL ENVIRONMENT, vol.743, pp.140742, 2020 (SCI-Expanded)
- VI. **The assessment of air quality in the Port of Ambarli and several districts of Istanbul**
ÜNLÜGENÇOĞLU K., ALARÇIN F.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.20, no.1, pp.80-91, 2020 (SCI-Expanded)
- VII. **Estimation of shipping emissions via novel developed data collecting and calculation software: a case study for the Region of Ambarli Port**
ÜNLÜGENÇOĞLU K., KÖKKÜLÜNK G., ALARÇIN F.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.19, no.3, pp.293-307, 2019 (SCI-Expanded)
- VIII. **Effects of Fuel Contamination to Marine Lubricant on Friction Behaviors between Piston Ring and Cylinder Liner**
Aydın Z., Savaş Ö., Parlak A., Keskin İ., Ünlügençoğlu K.
ACTA PHYSICA POLONICA A, vol.129, no.4, pp.617-620, 2016 (SCI-Expanded)
- IX. **APPLICATION OF FUZZY ANALYTIC HIERARCHY PROSES FOR ERROR DETECTION OF AUXILARY SYSTEMS OF SHIP MAIN DIESEL ENGINES**
Demirel H., Ünlügençoğlu K., Alarçin F., Balin A.
INTERNATIONAL JOURNAL OF MARITIME ENGINEERING, vol.157, pp.105-111, 2015 (SCI-Expanded)

Articles Published in Other Journals

- I. **SHIPPING EMISSION DISPERSIONS ON THE PORT OF AMBARLI VIA CFD MODELLING**
Ünlügençoğlu K., Yurtseven A., Alarçin F.
JOURNAL OF THERMAL ENGINEERING, vol.6, pp.1-14, 2020 (ESCI)
- II. **SHIP EMISSION ESTIMATION FOR IZMIR AND MERSIN INTERNATIONAL PORTS - TURKEY**
EKMEKÇİOĞLU A., ÜNLÜGENÇOĞLU K., ÇELEBİ U. B.
JOURNAL OF THERMAL ENGINEERING, vol.5, no.6, pp.184-195, 2019 (ESCI)
- III. **MODELING, SIMULATION AND ANALYSIS OF A NONLINEAR HALF MODEL SHIP MAIN ENGINE SYSTEM USING BOND GRAPH MODELING APPROACH**
Demirel H., Ünlügençoğlu K., Su M. E., Elçiçek H., Alarçin F.
International Journal of Advances in Science Engineering and Technology, vol.4, no.2, pp.76-80, 2016 (Peer-Reviewed Journal)
- IV. **Development and Application of Simulator Algorithm in Accordance With Ship Main Engine Auxiliary Systems**
ÜNLÜGENÇOĞLU K., Alarçin F.
Journal of Maritime Transport and Engineering, vol.2, no.1, pp.61-73, 2013 (Peer-Reviewed Journal)
- V. **WELDING TECHNOLOGIES IN SHIPBUILDING INDUSTRY**
Turan E., Koçal T., Ünlügençoğlu K.
TOJSAT : The Online Journal of Science and Technology , vol.1, no.4, pp.24-30, 2011 (Peer-Reviewed Journal)
- VI. **ENGINE ROOM SIMULATOR AND IMPORTANCE OF APPLIED MARITIME EDUCATION**
Ünlügençoğlu K., Yıldız B., Turan E.
TOJSAT : The Online Journal of Science and Technology, vol.1, no.4, pp.10-16, 2011 (Peer-Reviewed Journal)
- VII. **Quality Management in the Shipbuilding Sector**
Ünlügençoğlu K., Özüm S., Göksoy S. H.

Ovidius University Annual Scientific Journal Mechanical Engineering Series, vol.12, no.1, pp.1-5, 2010 (Peer-Reviewed Journal)

VIII. **Resistance prediction of a high speed craft by using CFD**

SADIK Ö., ŞENER B., ÜNLÜGENÇOĞLU K.

Annual Scientific Journal of Ovidius University, vol.1, pp.305-308, 2010 (Peer-Reviewed Journal)

Books & Book Chapters

I. **Effective Ship Ballast Water Treatment System Management**

BİLGİLİ L., ÜNLÜGENÇOĞLU K., ÇELEBİ U. B.

in: Causes Impacts and Solutions to Global Warming, Dinçer, İ., Çolpan, Ö.C., Kadioğlu, F., Editor, Springer-Verlag, New York, pp.975-984, 2013

Refereed Congress / Symposium Publications in Proceedings

I. **Effective Hydrolysis of Alkaline Sodium Borohydride: CoB-Triton Catalysts**

KAYA C., ÖZDEMİR J. H., ELÇİÇEK H., ÖZDEMİR O. K., KÖKKÜLÜNK G., ÜNLÜGENÇOĞLU K.

23rd World Hydrogen Energy Conference, Turkey, 26 June 2022

II. **EFFECTIVE HYDROLYSIS OF ALKALINE SODIUM BOROHYDRIDE: CoB-TRITON CATALYST**

Kaya C., Türkcan J. H., ELÇİÇEK H., ÖZDEMİR O. K., KÖKKÜLÜNK G., ÜNLÜGENÇOĞLU K.

23rd World Hydrogen Energy Conference: Bridging Continents by H₂, WHEC 2022, İstanbul, Turkey, 26 - 30 June 2022, pp.580-582

III. **Estimation of Shipping Emissions; a case study for the Region of Haydarpaşa Port in Istanbul**

Avcı M., Koçal T., Ünlügençoğlu K.

4th International Energy & Engineering Congress, Gaziantep, Turkey, 24 - 25 October 2019, pp.1101-1102

IV. **AMBARLI LİMANI HAVA KALİTESİNİN AVRUPA VE TÜRKİYE SINIRDEĞERLERİ AÇISINDAN DEĞERLENDİRİLMESİ**

ÜNLÜGENÇOĞLU K., KÖKKÜLÜNK G., ALARÇİN F.

TRANSİST İstanbul Ulaşım Kongresi, 8 - 10 November 2018

V. **Risk-Based Ship Waste and Emission Management System**

Bilgili L., Yılmaz Ş. K., Ünlügençoğlu K., Mert T., Çelebi U. B., Ekinci S., Azizler Y. Y.

19th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, Rome, Italy, 4 - 06 October 2017, pp.345

VI. **ÇANAKKALE VE İSTANBUL BOĞAZLARI'NDAN GEÇEN TÜRK BAYRAKLI KİMYASAL TANKERLERİN EMİSYON ÖLÇÜMÜ**

Kocaman Y., Bilgili L., Çelebi U. B., Ünlügençoğlu K.

1st International Congress on Ship and Marine Technology Green Technologies, İstanbul, Turkey, 8 - 09 December 2016, pp.811-814

VII. **Developments in Fuels and Emission Control Systems According to Marpol Annex VI on Ships**

Ünlügençoğlu K., Parlak A.

ISAET and IAAST 2015 International Conference, Dubai, United Arab Emirates, 20 - 21 May 2015, pp.1

VIII. **Corrosion Behaviors of AlB₂ Al Metal Matrix Composites**

SAVAŞ Ö., AYDIN Z., ÜNLÜGENÇOĞLU K., KAYIKCI R.

5th International Advances in Applied Physics and Materials Science Congress & Exhibition (APMAS2015), 16 - 19 April 2015

IX. **Life Cycle Assessment Model Establishment for Ships**

Bilgili L., Ünlügençoğlu K., Çelebi U. B.

2nd international symposium INT-NAM 2014, İstanbul, Turkey, 23 - 24 October 2014, pp.1-6

X. **An Investigation on Effective Ballast Water Treatment System Management to Prevent Marine**

Pollution Caused by Shipping

Bilgili L., Ünlügençoğlu K., Çelebi U. B.

Global Conference on Global Warming, İstanbul, Turkey, 8 - 12 July 2012

XI. Mechatronics Engineering Education and Its Importance in Turkey

KOÇAL T., YILDIZ B., ÜNLÜGENÇOĞLU K.

International Conference on New Horizons in Education 2010 (INTE 2010), Gazimagusa, Cyprus (Kkctc), 23 - 25 June 2010, pp.532-536

XII. Yıldız Technical University Marine Engineering Operations Department and Its Position in Maritime Education of Turkey

Ünlügençoğlu K., Yıldız B., Koçal T.

International Conference on New Horizons in Education-2010 (INTE 2010), Famagusta, Turkish Republic of Northern Cyprus, June 23-25, 2010, Gazimagusa, Cyprus (Kkctc), 23 - 25 June 2010, pp.950-956

XIII. Mechatronics Engineering Education and Its Importance of Turkey

Koçal T., Yıldız B., Ünlügençoğlu K.

International Conference on New Horizons in Education-2010 (INTE 2010), Famagusta, Turkish Republic of Northern Cyprus, June 23-25, 2010, Gazimagusa, Cyprus (Kkctc), 23 - 25 June 2010, pp.532-536

Supported Projects

ÜNLÜGENÇOĞLU K., ELÇİÇEK H., Kaya C., KÖKKÜLÜNK G., ÖZDEMİR O. K., Project Supported by Higher Education Institutions, Gemilerde hidrojen kullanımı için Amonyum Boran Hidrolizi ve Etkin Katalizör Geliştirilmesi, 2022 - 2023
Savaş Ö., Ünlügençoğlu K., Aydın Z., Kökkülünk G., Project Supported by Higher Education Institutions, Deniz taşıtlarında kullanılan farklı yağların segman silindir çifti yüzeylerindeki tribolojik özelliklerine etki eden parametrelerin incelenmesi, 2013 - 2016

Üst Y., Yurtseven A., Şener B., Ünlügençoğlu K., Project Supported by Higher Education Institutions, Gemilerde Dümen Donanımının Isı Değiştirici Olarak Kullanılmasına Yönelik Dümen Tasarımı Ve Optimizasyonu, 2011 - 2013

Metrics

Publication: 32

Citation (WoS): 57

Citation (Scopus): 118

H-Index (WoS): 5

H-Index (Scopus): 6

Non Academic Experience

Professional Chamber, CHAMBER OF NAVAL ARCHITECTS AND MARITIME ENGINEERS

RMK Marine Gemi Yapım Sanayii

Arkas Denizcilik ve Nakliyat A.Ş.