Prof. Osman Azmi Özsoysal

Personal Information

Office Phone: +90 212 285 6516
Fax Phone: +90 212 285 6454
Email: ozsoysal@itu.edu.tr
Web: https://avesis.itu.edu.tr/ozsoysal
Address: İstanbul Teknik Üniversitesi, Gemi İnşaatı ve Deniz Bilimleri Fakültesi, Ayazağa Yerleşkesi, Maslak, 34469, Sarıyer - İSTANBUL

International Researcher IDs
ORCID: 0000-0001-6358-6174
Publons / Web Of Science ResearcherID: R-3481-2017
ScopusID: 11839152800
Yoksis Researcher ID: 3523

Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği Anabilim Dalı, Turkey 1987 - 1991
Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği Anabilim Dalı, Turkey 1984 - 1987
Undergraduate, Istanbul Technical University, Gemi İnşaatı Ve Deniz Bilimleri Fakültesi, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği Bölümü, Turkey 1980 - 1984

Foreign Languages

English

Research Areas

Technical Sciences, Naval Architecture and Marine Engineering, Ship Construction, Ship Machines

Academic Titles / Tasks

Professor, Istanbul Technical University, Gemi İnşaatı ve Deniz Bilimleri, Gemi İnşaatı Ve Gemi Makinaları Mühendisliği, 2011 - Continues

Academic and Administrative Experience

İstanbul Teknik Üniversitesi, Gemi İnşaatı Ve Deniz Bilimleri Fakültesi, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği Bölümü, 2011 - 2013

Courses

Courses

Gemi Boru Donanımları, Undergraduate, 2017 - 2018
Marine Auxiliary Machinery, Undergraduate, 2017 - 2018

Advising Theses

Özsoysal O. A., Numerical modeling and experimental analysis on coupled torsional-longitudinal and lateral vibrations of propulsion shaft system, Doctorate, A.NEŞE(Student), 2021
Özsoysal O. A., İçten yanmalı motor egzoz manifoldunun sayısal modellenmesi ve incelenmesi, Doctorate, G.BENEK(Student), 2021
Özsoysal O. A., Techno-economic investigation of alternative propulsion systems for tugboats, Postgraduate, Ö.EMRE(Student), 2021
Özsoysal O. A., Piyade tipi teknelerde elektrikli tahsik sistemi optimizasyonu, Postgraduate, Y.SERHAD(Student), 2019
Özsoysal O. A., EFFECTS OF VARIABLE VALVE TIMING ON THE EXHAUST THERMAL MANAGEMENT OF A TURBOCHARGED & INTERCOOLED DIESEL ENGINE, Doctorate, H.Üstün(Student), 2016
Özsoysal O. A., CODAG ile tahrik edilen askeri bir geminin sevk sistemi eksenel ve burulma titreşim analizi, Postgraduate, A.GÖKTÜRK(Student), 2016
Özsoysal O. A., Gemi makinelerinin yataklanması ve titreşim etüdü, Postgraduate, A.NEŞE(Student), 2015
Özsoysal O. A., Bilyeli rulman hasarlarının titreşim analizi ile tespiti ve gemi makinelerinde kestirimci bakım uygulaması, Postgraduate, M.ÇİMEN(Student), 2015
Özsoysal O. A., Yüzer araçlarda dinamik konumlandırma sistemlerinde bileşen seçiminin sistemin çalışmasına etkisi bakımından önemi, Postgraduate, A.ÖZEN(Student), 2014
Özsoysal O. A., Gemilerde baca formunun gaz akışına etkileri, Postgraduate, U.KIRAY(Student), 2014
Özsoysal O. A., Gemi makineleri için yönetim arayüzü, Postgraduate, R.SALİM(Student), 2013
Özsoysal O. A., Gemi dizel makinelerinde biyodizel yakıt kullanımı, Postgraduate, G.BENEK(Student), 2013
Özsoysal O. A., Formal safety assessment of engine room fires, Postgraduate, C.İNCEKARA(Student), 2013
Özsoysal O. A., Gemi dizel motorunun çalışması esnasında ayak basma yerlerinde oluşan kuvvetlerin analizi, Postgraduate, H.SAĞLAM(Student), 2013
Özsoysal O. A., Tankerlerde kargo devresi ve maliyet ilişkileri, Postgraduate, M.YAHYA(Student), 2012
Özsoysal O. A., Gemi dizel motor test yataklarının analitik modellenmesi, Postgraduate, H.ÜSTÜN(Student), 2010
Özsoysal O. A., Yanma verimi yaklaşımıyla ikili çevrim analizi, Postgraduate, E.KARAMAN(Student), 2009
Özsoysal O. A., Çok supaplı yüksek süratli gemi dizel motorlarının ikinci kanun analizi, Postgraduate, Y.TEKGÖZ(Student), 2007
Özsoysal O. A., Gemi dizel motorlarında ikinci kanun analizi ve entropi üretimi, Postgraduate, M.YAVUZ(Student), 2004
Özsoysal O. A., Gemi diesel motorlarında çoklu sübap uygulamasının termodinamik simülasyonu, Postgraduate, M.ÖZEREN(Student), 2001
Özsoysal O. A., Sar-33botlar'ın ana tahrik sis. incelenmesi, Postgraduate, A.GÜRAL(Student), 2000
Özsoysal O. A., Yeni gemi inşaatında kalite güvence modeli olarak ISO 9001, Postgraduate, S.GÜÇER(Student), 1998

Published journal articles indexed by SCI, SSCI, and AHCI

I. **The effect of using hydrogen at partial load in a diesel-natural gas dual fuel engine**
Ekin F., Ozsoysal O. A., Arslan H.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.42, pp.18532-18550, 2022 (SCI-Expanded)
II. **Modelling Fuel Consumption and NOx Emission of a Medium Duty Truck Diesel Engine With Comparative Time-Series Methods**
Ozmen M. I., Yilmaz A., Baykara C., Özsoysal O. A.
IEEE ACCESS, vol.9, pp.81202-81209, 2021 (SCI-Expanded)
III. **A STUDY ON THE IDENTIFICATION OF FIRE HAZARDS ON BOARD: A CASE STUDY**
Barlas B., Özsoysal R., Bayraktarkatal E., Özsoysal O. A.

BRODOGRADNJA, vol.68, no.4, pp.71-87, 2017 (SCI-Expanded)

IV. **Effects of application of variable valve timing on the exhaust gas temperature improvement in a low-loaded diesel engine**
Basaran H. U., Özsoysal O. A.
APPLIED THERMAL ENGINEERING, vol.122, pp.758-767, 2017 (SCI-Expanded)

V. **Siphoning sea water back into the engine in fast boats**
Özsoysal O. A.
Journal of Marine Science and Technology-Taiwan, vol.18, no.4, pp.496-503, 2010 (SCI-Expanded)

VI. **Effects of combustion efficiency on an Otto cycle**
Özsoysal O. A.
International Journal of Exergy, vol.7, no.2, pp.232-242, 2010 (SCI-Expanded)

VII. **Effects of varying air fuel ratio on the performance of a theoretical Diesel cycle**
Özsoysal O. A.
International Journal of Exergy, vol.7, no.6, pp.654-666, 2010 (SCI-Expanded)

VIII. **Effects of combustion efficiency on a Dual cycle**
Özsoysal O. A.
ENERGY CONVERSION AND MANAGEMENT, vol.50, no.9, pp.2400-2406, 2009 (SCI-Expanded)

IX. **Maritime casualties through the Bosporus**
Ozsoysal R., Ozsoysal O. A.
NAVAL ENGINEERS JOURNAL, vol.118, no.1, pp.77-82, 2006 (SCI-Expanded)

X. **Heat loss as a percentage of fuel s energy in air standard Otto and Diesel cycles**
Özsoysal O. A.
ENERGY CONVERSION AND MANAGEMENT, vol.47, no.7, pp.1051-1062, 2006 (SCI-Expanded)

XI. **Marine casualties through the bosphorus**
Özsoysal O. A.
NAVAL ENGINEERS JOURNAL, vol.118, no.1, pp.77-82, 2006 (SCI-Expanded)

XII. **A comparative performance analysis of endoreversible dual cycle under maximum ecological function and maximum power condition**
Özsoysal O. A.
INTERNATIONAL JOURNAL OF EXERGY, vol.2, no.3, pp.173-185, 2002 (SCI-Expanded)

Articles Published in Other Journals

I. **The Coupling Effect on Torsional and Longitudinal Vibrations of Marine Propulsion Shaft System**
Halilbese A. N., Özsoysal O. A.
JOURNAL OF ETA MARITIME SCIENCE, vol.9, no.4, pp.274-282, 2021 (ESCI)

II. **Techno-economic investigation of alternative propulsion systems for tugboats**
Karacay O. E., Özsoysal O. A.
ENERGY CONVERSION AND MANAGEMENT-X, vol.12, 2021 (ESCI)

III. **Influences of the dead end on the flow characteristics at the exhaust manifold of a marine diesel engine**
Benek G., Özsoysal O. A.
JOURNAL OF THERMAL ENGINEERING, vol.7, no.6, pp.1519-1530, 2021 (ESCI)

IV. **Effect of Coupled Torsional and Transverse Vibrations of the Marine Propulsion Shaft System**
Halilbeşe A. N., Zhang C., Özsoysal O. A.
JOURNAL OF MARINE SCIENCE AND APPLICATION, vol.20, no.2, pp.201-212, 2021 (ESCI)

V. **Determination of Appropriate Axial Vibration Dampers for a Naval Vessel Driven by CODAG Propulsion**
Göktürk A., Özsoysal O. A.
Periodicals of Engineering and Natural Sciences, vol.5, pp.371-377, 2017 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

I. **A complete thermodynamic simulation model for a multi-valve marine diesel engine**
Ozsoysal O. A., Sogut O., Sag O.
International Conference on Efficiency, Costs, Optimization, Simulation and Environmental Impact of Energy Systems (ECOS 95), İstanbul, Turkey, 11 - 14 July 1995, pp.748-753

II. **An analytical investigation of variable valve timing on a high speed turbocharged multi-wave marine diesel engine**
Ozsoysal O. A., Sogut O., Sahin C., Sag O.
International Conference on Efficiency, Costs, Optimization, Simulation and Environmental Impact of Energy Systems (ECOS 95), İstanbul, Turkey, 11 - 14 July 1995, pp.742-747

Supported Projects

Özsoysal O. A., Project Supported by Higher Education Institutions, gemilerde makina kaynaklı titreşim analizi, 2015 - 2017
Özsoysal O. A., Project Supported by Higher Education Institutions, Gemi Makinalarının Yataklanması ve Titreşim Etüdü, 2015 - 2015

Scientific Refereeing

International Journal of Exergy, SCI Journal, January 2018
Applied Energy, SCI Journal, January 2018
Physica Scripta (IOP-Institute of Physics), SCI Journal, January 2018
Turkish Journal of Electrical Engineering & Computer Sciences, SCI Journal, January 2018
Energy Conversion and Management, SCI Journal, January 2018
Applied Thermal Engineering, SCI Journal, January 2018
Energy, SCI Journal, January 2018

Metrics

Publication: 29
Citation (WoS): 28
Citation (Scopus): 40
H-Index (WoS): 3
H-Index (Scopus): 3