

## Prof. Tamer YILMAZ

### Personal Information

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### International Researcher IDs

ORCID: 0000-0001-9207-7731

Publons / Web Of Science ResearcherID: AAH-6169-2019

ScopusID: 7006525149

Yoksis Researcher ID: 189755

### Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Turkey 1994 - 1998

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Gemi İnşaatı Müh. Prog., Turkey 1991 - 1993

Undergraduate, Yildiz Technical University, Faculty Of Mechanical Engineering, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği, Turkey 1987 - 1991

### Foreign Languages

English, B2 Upper Intermediate

### Research Areas

Engineering and Technology

### Academic Titles / Tasks

Professor, Yildiz Technical University, Naval Architecture And Maritime Faculty, 2007 - Continues

Associate Professor, Yildiz Technical University, 2001 - 2007

Assistant Professor, Yildiz Technical University, 1999 - 2001

Research Assistant, Yildiz Technical University, 1992 - 1996

### Academic and Administrative Experience

Rector, Hasan Kalyoncu University, Rectorate, 2013 - 2018

Vice Rector, Yildiz Technical University, 2010 - 2012

Director of The Institution, Yildiz Technical University, Graduate School of Natural and Applied Sciences, 2009 - 2010

Head of Department, Yildiz Technical University, Naval Architecture And Maritime Faculty, 2007 - 2009

## Advising Theses

Yılmaz T., Gaz türbinli gemilerde ekserji ve termodinamik analiz, Postgraduate, T.ÇUBUĞUUZUN(Student), 2006

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Towards zero carbon emission at YTU Davutpasa Campus**  
Zehra Sukur F., ÖZKAYA B., YILMAZ T.  
International Journal of Global Warming, vol.34, no.1, pp.1-18, 2024 (SCI-Expanded)
- II. **The manufacturing adaptive capabilities of firms: the role of technology, market and management systems-related adaptive capabilities**  
KESKİN H., AKGÜN A. E., ESEN E., YILMAZ T.  
JOURNAL OF MANUFACTURING TECHNOLOGY MANAGEMENT, vol.33, no.8, pp.1429-1449, 2022 (SCI-Expanded)
- III. **Key Performance Indicators of Vocational Education and Training in the Construction Industry**  
IŞIK Z., BUDAYAN C., ALADAĞ H., DEMİRDÖĞEN G., YILMAZ T., ARDİTİ D.  
TEKNIK DERGI, vol.30, no.3, pp.9147-9174, 2019 (SCI-Expanded)
- IV. **Dominant Vortex Structures in Transverse Jets**  
BAYRAKTAR S., Yılmaz T.  
JOURNAL OF APPLIED FLUID MECHANICS, vol.9, no.5, pp.2403-2411, 2016 (SCI-Expanded)
- V. **NUMERICAL AND EXPERIMENTAL STUDY OF TURBULENT FREE SURFACE FLOW FOR A FAST SHIP MODEL**  
Ozdemir Y. H., Barlas B., YILMAZ T., BAYRAKTAR S.  
BRODOGRADNJA, vol.65, no.1, pp.39-54, 2014 (SCI-Expanded)
- VI. **Experimental analysis of transverse jet using various decomposition techniques**  
Bayraktar S., Yılmaz T.  
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.25, no.5, pp.1325-1333, 2011 (SCI-Expanded)
- VII. **Three-dimensional analysis of temperature field for various parameters affect the film cooling effectiveness**  
Bayraktar S., Yılmaz T.  
ENERGY CONVERSION AND MANAGEMENT, vol.52, pp.1914-1929, 2011 (SCI-Expanded)
- VIII. **Power and Efficiency Analysis of Brayton Cycles with Internal Irreversibility**  
ATMACA M., GÜMÜŞ M., YILMAZ T.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.32, no.14, pp.1301-1315, 2010 (SCI-Expanded)
- IX. **Optimization of Irreversible Cogeneration Systems under Alternative Performance Criteria**  
ATMACA M., GÜMÜŞ M., İNAN A. T., YILMAZ T.  
INTERNATIONAL JOURNAL OF THERMOPHYSICS, vol.30, no.5, pp.1724-1732, 2009 (SCI-Expanded)
- X. **Efficiency of an Otto engine under alternative power optimizations**  
GÜMÜŞ M., ATMACA M., Yılmaz T.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.33, no.8, pp.745-752, 2009 (SCI-Expanded)
- XI. **Two-dimensional numerical investigation of film cooling by a cool jet injected at various angles for different blowing ratios**  
Bayraktar S., Yılmaz T.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, vol.222, no.7, pp.1215-1224, 2008 (SCI-Expanded)
- XII. **Efficient power analysis for an irreversible Carnot heat engine**  
YILMAZ T., Durmuşoğlu Y.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.32, no.7, pp.623-628, 2008 (SCI-Expanded)
- XIII. **Efficiency optimisation of gas turbine based cogeneration cycle**  
YILMAZ T., BAYRAKTAR S., TAŞÇI F.  
JOURNAL OF THE ENERGY INSTITUTE, vol.81, no.2, pp.110-113, 2008 (SCI-Expanded)

- XIV. **Performance optimization of a Joule-Brayton engine based on the efficient power criterion**  
Yilmaz T.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART A-JOURNAL OF POWER AND ENERGY, vol.221, pp.603-607, 2007 (SCI-Expanded)
- XV. **Optimization of a regenerative gas-turbine cogeneration system based on a new exergetic performance criterion: exergetic performance coefficient**  
Ust Y., Sahin B., Yilmaz T.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART A-JOURNAL OF POWER AND ENERGY, vol.221, pp.447-457, 2007 (SCI-Expanded)
- XVI. **Thermoeconomic analysis of a solar driven heat engine**  
Sahin B., Üst Y., Yilmaz T., Akçay İ. H.  
RENEWABLE ENERGY, vol.31, no.7, pp.1033-1042, 2006 (SCI-Expanded)
- XVII. **Analysis of an unconventional cycle as a new comparison standard for practical heat engines: the circular/elliptical cycle in T-S diagram**  
Sahin B., Üst Y., Kodal A., Yilmaz T.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.28, no.13, pp.1159-1175, 2004 (SCI-Expanded)
- XVIII. **Thermoeconomic optimization for irreversible absorption refrigerators and heat pumps**  
Kodal A., ŞAHİN B., Ekmekci I., YILMAZ T.  
Energy Conversion and Management, vol.44, no.1, pp.109-123, 2003 (SCI-Expanded)
- XIX. **Effects of internal irreversibility and heat leakage on the finite time thermoeconomic performance of refrigerators and heat pumps**  
Kodal A., ŞAHİN B., YILMAZ T.  
Energy Conversion and Management, vol.41, no.6, pp.607-619, 2000 (SCI-Expanded)
- XX. **Comparative performance analysis of irreversible carnot heat engines under maximum power density and maximum power conditions**  
Kodal A., ŞAHİN B., YILMAZ T.  
Energy Conversion and Management, vol.41, no.3, pp.235-248, 2000 (SCI-Expanded)
- XXI. **Exergy optimization for an endoreversible cogeneration cycle**  
ŞAHİN B., Kodal A., Ekmekçi I., Yilmaz T.  
Energy, vol.22, no.5, pp.551-557, 1997 (SCI-Expanded)
- XXII. **Maximum power density analysis of an irreversible Joule-Brayton engine**  
Sahin B., Kodal A., Yilmaz T., Yavuz H.  
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.29, no.5, pp.1162-1167, 1996 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Role of Vocational Education and Training in the Construction Industry Performance**  
IŞIK Z., ALADAĞ H., DEMİRDÖĞEN G., BUDAYAN C., YILMAZ T.  
International Journal of Business and Management Studies (IJBMS), vol.7, pp.1-8, 2018 (Peer-Reviewed Journal)
- II. **Bir Suüstü Savaş Gemisi Formunun Hesaplamalı Akışkanlar Dinamiği Yöntemleriyle Optimizasyonu**  
ŞENER B., YILMAZ T.  
YTÜ Sigma Mühendislik ve Fen Bilimleri Dergisi, vol.30, no.3, pp.350-363, 2012 (Peer-Reviewed Journal)
- III. **Fluid-Structure Interaction (FSI) of a Three-Bladed Marine Propeller**  
Alpay O., Demir Ö., Özdemir Y. H., Bayraktar S., Yilmaz T.  
Ovidius University Annals of Mechanical, Industrial and Maritime Engineering, vol.10, no.1, pp.1-6, 2008 (Peer-Reviewed Journal)
- IV. **Two-Dimensional Large Eddy Simulation (LES) of Exhaust Smoke Dispersion around a Commercial Ship**  
Bayraktar S., Demir Ö., Özdemir Y. H., Alpay O., Yilmaz T.  
Ovidius University Annals of Mechanical, Industrial and Maritime Engineering, vol.10, no.1, pp.1-5, 2008 (Peer-

## Books & Book Chapters

- I. **The Relationship between National Technological Initiative of Türkiye and Technological Planning**  
KESKİN H., YILMAZ T.  
in: National Technology Initiative; Social Reflections and the Future of Turkey, , Editor, TÜBA, pp.193-208, 2022

## Refereed Congress / Symposium Publications in Proceedings

- I. **Bir Okul Yapısına Pasif Isıtma Sistemi Uygulaması**  
KOYUN A., Gedik G., Yılmaz T.  
ULIBTK15, Trabzon, Turkey, 02 September 2015, vol.0
- II. **Role of Vocational Education and Training in the Construction Industry Performance**  
IŞIK Z., ALADAĞ H., DEMİRDÖĞEN G., BUDAYAN C., YILMAZ T.  
IJAS 2018 (International Journal of Arts Sciences) - International Conference for Teaching and Education, 23 - 27 July 2018
- III. **Investigation of Charge Weight and Shock Factor Effect on Non-linear Transient Structural Response of Rectangular Plates Subjected to Underwater Explosion (UNDEX) Shock Loading**  
DEMİR Ö., Sahin A., YILMAZ T.  
International Conference of Numerical Analysis and Applied Mathematics (ICNAAM), Kos, Greece, 19 - 25 September 2012, vol.1479, pp.2352-2355
- IV. **Determining optimum geometry for a bow thruster propeller**  
Ozdemir Y., BAYRAKTAR S., YILMAZ T., GÜNER M.  
8th Symposium on High Speed Marine Vehicles, HSMV 2008, Naples, Italy, 21 - 23 May 2008, pp.109-113
- V. **Cfd and analytical analysis of exhaust system of a gas turbine used in a ship**  
Bayraktar S., SAFA A., YILMAZ T.  
International Conference on Numerical Analysis and Applied Mathematics, Corfu, Greece, 16 - 20 September 2007, vol.936, pp.619-620
- VI. **Manyetohidrokinamik Güç Üretim Sistemiyle Doğrudan Elektrik Üretimi**  
Yılmaz T.  
Yıldız Teknik Üniversitesi, 01 February 1999

## Supported Projects

- Işık Z., Yılmaz T., EU Supported Other Project, A Smart Network for Technology Transfer and Commercialization with Funnel Model, 2018 - 2023
- Budayan C., Işık Z., Aladağ H., Yılmaz T., Demirdöğen G., EU Supported Other Project, Determination of a European Standart for Key Performance Indicators KPIs in Vocational Training Models of Construction Industry, 2014 - 2017
- Işık Z., Çolak Çakır Ö. Ü., Hüdaverdi M., Yılmaz T., TÜBİTAK Project, YTÜ Teknoloji Transfer Ofisi Projesi, 2013 - 2014
- Yılmaz H., Özkaya B., Işık Z., Yılmaz T., Project Supported by Other Official Institutions, İstanbul Çevre Düzeni Planının Kıyı Alanlarına İlişkin Yaklaşımının Mekana Yansıtılmasına Yönelik Araştırma, Değerlendirme Ve Model Geliştirme İşi, 2011 - 2013
- Gür M., Yılmaz T., Demir H., Çağdaş V., Işık Z., Gümüşay M. Ü., Project Supported by Other Official Institutions, İstanbul Çevre Düzeni Planının Kıyı Alanlarına İlişkin Yaklaşımının Mekana Yansıtılmasına Yönelik Araştırma, Değerlendirme Ve Model Geliştirme İşi, 2011 - 2012
- YILMAZ T., Project Supported by Higher Education Institutions, Hesaplamalı Akışkanlar Dinamiği Yöntemleriyle Gemi Formu Optimizasyonu, 2010 - 2012

YILMAZ T., Project Supported by Higher Education Institutions, İstatistiksel Enerji Analiz Metodu ile Bir Geminin Titreşim ve Gürültü Analizi, 2010 - 2012

YILMAZ T., Project Supported by Higher Education Institutions, Kabotaj hattı deniz taşımacılığının etüdü ve optimum gemi tipinin belirlenmesi, 2005 - 2006

## **Metrics**

Publication: 49

Citation (WoS): 450

Citation (Scopus): 610

H-Index (WoS): 11

H-Index (Scopus): 12

## **Non Academic Experience**

Türk Loydu Vakfı

TÜRK LOYDU

Türk Loydu İktisadi İşletmesi

Yıldız Teknik Üniversitesi Vakfı-İktisadi İşletmesi

Yıldız Teknik Üniversitesi-Sürekli Eğitim Merkezi

İstanbul Teknoloji Geliştirme Bölgesi A.Ş

Yıldız Teknik Üniversitesi

Yıldız Teknik Üniversitesi

Yıldız Teknik Üniversitesi

TMMOB Gemi Mühendisleri Odası