

Assoc. Prof. Bülent GÜZEL

Personal Information

Email: bguzel@yildiz.edu.tr

Web: <https://avesis.yildiz.edu.tr/bguzel>

International Researcher IDs

ORCID: 0000-0001-6915-4209

Yoksis Researcher ID: 160352

Education Information

Doctorate, British Columbia Üniversitesi, Uygulamalı Bilimler, Makina Mühendisliği, Canada 2003 - 2009

Postgraduate, Istanbul Technical University, Makina Fakültesi, Makina Mühendisliği, Turkey 1995 - 1997

Undergraduate, Yıldız Technical University, Makina Fakültesi, Makina Mühendisliği, Turkey 1991 - 1995

Foreign Languages

English, C1 Advanced

Research Areas

Mechanical Engineering, Naval Architecture and Marine Engineering, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Yıldız Technical University, Gemi İnş. Ve Den. Fak., Gemi İnş. Ve Gemi Makineleri Müh., 2018 - Continues

Assistant Professor, Yıldız Technical University, Gemi İnş. Ve Den. Fak., Gemi İnş. Ve Gemi Makineleri Müh., 2012 - 2018

Advising Theses

GÜZEL B., Gemilerde dövmünün deneysel ve nümerik olarak incelenmesi, Doctorate, F.Cuneyd(Student), 2016

GÜZEL B., Titreşimli ısı borularının deneysel incelenmesi, Postgraduate, M.Emre(Student), 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Exergetic and Exergo-Economical Analyses of a Gas-Steam Combined Cycle System**
Gonca G., Guzel B.
JOURNAL OF NON-EQUILIBRIUM THERMODYNAMICS, vol.47, no.4, pp.415-431, 2022 (SCI-Expanded)
- II. **Numerical and Experimental Thermal-Hydraulic Performance Analysis of a Supercritical CO₂ Brayton Cycle PCHE Recuperator**
Arslan F., Güzel B.

Arabian Journal For Science And Engineering, vol.46, pp.1-11, 2021 (SCI-Expanded)

- III. **Experimental investigation of water entry of bodies with constant deadrise angles under hydrophobic effects**
GÜZEL B., KORKMAZ F. C.
Experiments in Fluids, vol.62, no.5, 2021 (SCI-Expanded)
- IV. **Reducing water entry impact loads on offshore marine structures by forced air entrapment**
GÜZEL B., KORKMAZ F. C.
SHIPS AND OFFSHORE STRUCTURES, vol.15, no.9, pp.942-952, 2020 (SCI-Expanded)
- V. **On non-axisymmetric flow structures of graphene suspensions in Taylor–Couette reactors**
Elcicek H., Guzel B.
International Journal of Environmental Science and Technology, vol.17, no.7, pp.3475-3484, 2020 (SCI-Expanded)
- VI. **Effect of shear-thinning behavior on flow regimes in Taylor–Couette flows**
Elçiçek H., GÜZEL B.
Journal of Non-Newtonian Fluid Mechanics, vol.279, 2020 (SCI-Expanded)
- VII. **Reducing water entry impact loads on marine structures by surface modification**
GÜZEL B., KORKMAZ F. C.
Brodogradnja, vol.71, no.1, pp.1-18, 2020 (SCI-Expanded)
- VIII. **Primary instability of a shear-thinning film flow down an incline: experimental study**
ALLOUCHE M. H., BOTTON V., MILLET S., HENRY D., DAGOIS-BOHY S., Guzel B., BEN HADID H.
JOURNAL OF FLUID MECHANICS, vol.821, 2017 (SCI-Expanded)
- IX. **Water entry of cylinders and spheres under hydrophobic effects; Case for advancing deadrise angles**
KORKMAZ F. C., GÜZEL B.
OCEAN ENGINEERING, vol.129, pp.240-252, 2017 (SCI-Expanded)
- X. **Observation of laminar-turbulent transition of a yield stress fluid in Hagen-Poiseuille flow**
Guezel B., BURGHELEA T., Frigaard I. A., Martinez D. M.
JOURNAL OF FLUID MECHANICS, vol.627, pp.97-128, 2009 (SCI-Expanded)
- XI. **Predicting laminar-turbulent transition in Poiseuille pipe flow for non-Newtonian fluids**
Guzel B., Frigaard I., Martinez D. M.
CHEMICAL ENGINEERING SCIENCE, vol.64, no.2, pp.254-264, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **TC-UV Reactors Evaluated as an Alternative Option in Treatment of Ballast Water**
ELÇİÇEK H., GÜZEL B.
Journal of Eta Maritime Science, vol.8, no.1, pp.10-21, 2020 (ESCI)
- II. **Silindir ve Kürelerin Suya Girişlerinde Esnekliğin ve Katı Yüzey Özelliklerinin Dövünme Yüklerine Etkisinin Deneysel Olarak İncelenmesi**
Korkmaz F. C., Güzel B.
JOURNAL OF ETA MARITIME SCIENCE, vol.5, no.3, pp.258-270, 2017 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **INVESTIGATION OF WAVE BASIN DESIGN PARAMETERS AND PRODUCTION OF WAVE-MAKER**
Gölçek K., GÜZEL B., BAYAR H., BAŞAK M. E.
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 17 - 19 December 2019
- II. **Experimental investigation of sloshing in the rectangular tank under the hydrophobic effect**
KORKMAZ F. C., YİĞİT K., GÜZEL B.

19th International Conference on Ship and Maritime Research, Trieste, Italy, 20 June 2018, pp.299-305

III. EXPERIMENTAL INVESTIGATION OF WATER EXIT UNDER HYDROPHOBIC EFFECTS

GÜZEL B., KORKMAZ F. C.

35th ASME International Conference on Ocean, Offshore and Arctic Engineering, Busan, South Korea, 19 - 24 June 2016

IV. The effect of hydrophobicity in bow flare and wet deck slamming

KORKMAZ F. C., GÜZEL B., SAFA A.

26th Annual International Ocean and Polar Engineering Conference, ISOPE 2016, Rhodes, Greece, 26 June - 01 July 2016, pp.469-472

V. Experimental Study On Force Distribution During Slamming Event With Hydrophobic Surface

KORKMAZ F. C., GÜZEL B.

The Ires 5th International Conference, Barcelona, Spain, 01 August 2015, pp.1-8

VI. EXPERIMENTAL INVESTIGATION OF WATER ENTRY IMPACT ON HYDROPHOBIC SURFACES

Güzel B., Korkmaz F. C.

34th ASME International Conference on Ocean, Offshore and Arctic Engineering (OMAE2015), St John's, Canada, 31 May - 05 June 2015

Supported Projects

KORKMAZ F. C., YİĞİT K., GÜZEL B., Project Supported by Higher Education Institutions, Gemi Tanklarındaki Çalkantı Yüklerinin Deneyisel Olarak İncelenmesi, 2018 - 2020

BAŞAK M. E., GÖLÇEK K., ALAN M. E., BAYAR H., GÜZEL B., Project Supported by Higher Education Institutions, Yılan Tipi Dalga Yapıcıya Haiz bir Dalga Tankında Gemi Dövünmesinin Deneyisel İncelenmesi, 2017 - 2019

YILMAZ O., GÜZEL B., ÇELİK F., Project Supported by Higher Education Institutions, SU TÜNELİ DENEYLERİYLE KANATLARIN ETRAFINDAKİ AKIŞIN İNCELENMESİ, 2015 - 2018

GÜZEL B., Project Supported by Higher Education Institutions, Non-Newtonien Bir Akışkan Olan Kömür Çamurunun Boru İçerisindeki Akışının Deneyisel ve Nümerik İncelenmesi, 2013 - 2017

GÜZEL B., KORKMAZ F. C., Project Supported by Higher Education Institutions, Gemilerdeki Dövünme Yüklerinin Deneyisel Olarak İncelenmesi, 2013 - 2016

GÜZEL B., KINACI Ö. K., Other International Funding Programs, Yer etkisiyle çalışan yüksek hızlı bir prototip tekninin dizaynı, 2013 - 2016

Scientific Refereeing

Technical Sciences, Other Indexed Journal, October 2016

International Journal of Heat and Fluid Flow, SCI Journal, January 2015

Metrics

Publication: 33

Citation (WoS): 107

Citation (Scopus): 136

H-Index (WoS): 4

H-Index (Scopus): 5

Congress and Symposium Activities

OMAE 2016, Session Moderator, Pusan, South Korea, 2016