

# FATİH CÜNEYD KORKMAZ

## ASSOC. PROF.

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### International Researcher IDs

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### Learning Knowledge

Post Doctorate 2021 - 2023	The National Research Council of Italy, Institute of Marine Engineering, Italy
Doctorate 2012 - 2017	Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Naval Architecture And Marine Engineering, Turkey
Postgraduate 2010 - 2012	Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Naval Architecture And Marine Engineering, Turkey
Undergraduate 2004 - 2009	Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, Turkey

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, AN EXPERIMENTAL AND NUMERICAL INVESTIGATION OF SLAMMING LOADS ON SHIP FORMS, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği, 2016

### Academic Titles / Tasks

Assistant Professor 2018 - Continues	Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Marine Engineering Operations
Researcher 2012 - 2013	University of Strathclyde, Naval architecture, ocean & marine engineering

### Supported Projects

## Supported Projects

1. Korkmaz F. C., İnce S. T., Gedikli E. D., Project Supported by Higher Education Institutions, Farklı Dalga Formlarının Çeşitli Enerji Dönüşüm Sistemlerine Etkisi, 2022 - 2024
2. KORKMAZ F. C., YİĞİT K., GÜZEL B., Project Supported by Higher Education Institutions, Gemi Tanklarındaki Çalkantı Yüklerinin Deneyisel Olarak İncelenmesi, 2018 - 2020
3. GÜZEL B., KORKMAZ F. C., Project Supported by Higher Education Institutions, Gemilerdeki Dövünme Yüklerinin Deneyisel Olarak İncelenmesi, 2013 - 2016

## Scholarships

2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, TÜBİTAK, 2021 - 2022

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

1. **Insights from Sloshing Experiments in a Rectangular Hydrophobic Tank**  
Korkmaz F. C., Güzel B.  
EXPERIMENTAL THERMAL AND FLUID SCIENCE, vol.146, no.110920, pp.1-26, 2023 (SCI-Expanded)
2. **Wave impact on a rigid and flexible wall using various viscous fluids during sloshing**  
Korkmaz F. C.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART M-JOURNAL OF ENGINEERING FOR THE MARITIME ENVIRONMENT, vol.237, no.1, pp.96-107, 2023 (SCI-Expanded)
3. **On the effects of the number of baffles in sloshing dynamics**  
Korkmaz F. C., Güzel B.  
SHIPS AND OFFSHORE STRUCTURES, vol.18, no.1, pp.21-33, 2023 (SCI-Expanded)
4. **Damping of sloshing impact on bottom-layer fluid by adding a viscous top-layer fluid**  
Korkmaz F. C.  
Ocean Engineering, vol.254, 2022 (SCI-Expanded)
5. **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)
6. **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)
7. **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)
8. **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)
9. **CONTROL OF A SHIP SHAFT TORSIONAL VIBRATION VIA MODIFIED PID CONTROLLER**  
KORKMAZ F. C., Su M. E., ALARÇİN F.  
BRODOGRADNJA, vol.65, no.1, pp.17-27, 2014 (SCI-Expanded)

## Articles Published in Other Journals

1. **Perde Tipi Engellerin Gözenek Oran ve Konumlarının Çalkantıyı Sönümleme Etkisinin Sayısal Olarak İncelenmesi**

- Bayramoğlu T., Korkmaz F. C.  
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.11, pp.1194-1205, 2023 (Peer-Reviewed Journal)
2. **Wave Impact Loads on Vertical Circular Cylinder and the effect of Hydrophobic Surface**  
Al-Beity A. M. A., Korkmaz F. C., Güzel B.  
El-Cezeri Journal of Science and Engineering, vol.10, no.2, pp.253-267, 2023 (Scopus)
3. **The Effect of Tank Geometry on Sloshing Forces**  
Korkmaz F. C.  
Gemi ve Deniz Teknolojisi, no.222, pp.109-120, 2022 (Peer-Reviewed Journal)
4. **Perde Tipi Engellerin Çalkantı Yüklerini Azaltma Etkileri Üzerine Deneysel Bir Çalışma**  
Korkmaz F. C., Yiğit K., Güzel B.  
El-Cezerî Journal of Science and Engineering, vol.8, no.3, pp.1149-1157, 2021 (Scopus)
5. **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)
6. **VIBRATION ANALYSIS OF SHIP MAIN ENGINE AND SHAFT SYSTEM**  
Alarçin F., Korkmaz F. C.  
Sigma Journal of Engineering and Natural Sciences, vol.3, pp.310-319, 2012 (ESCI)

#### Refereed Congress / Symposium Publications in Proceedings

1. **Dynamic Analysis of an Oscillating Water Column with Artificial Stems**  
Korkmaz F. C., Gedikli E. D.  
Thirty-fourth International Ocean and Polar Engineering Conference, Rodos, Greece, 17 - 20 June 2024, pp.1095-1100
2. **Mitigating wave impacts on an oscillating water column by investigating the effect of artificial vegetation**  
Gedikli E. D., Korkmaz F. C., İnce S. T.  
76th Annual Meeting of the Division of Fluid Dynamics, Washington, United States Of America, 19 - 21 November 2023, pp.1-2
3. **Assessment of Wave Impact on Model Wave Energy Converter**  
Korkmaz F. C., İnce S. T., Gedikli E. D.  
4th International Naval Architecture and Maritime Symposium (Int-Nam 2023), İstanbul, Turkey, 11 - 13 October 2023, pp.1-4
4. **GEMİDEKİ MEVCUT YAPILARIN TİTREŞİM VE AKUSTİK AÇISINDAN OPTİMİZASYONU**  
Aşkar A. S., Korkmaz F. C.  
10th International Congress on Engineering, Architecture and Design, 24 December 2022, pp.438-445
5. **WAVE IMPACT ON SLOPE WALL**  
Korkmaz F. C.  
8 th International congress of academic research, 22 - 25 June 2022, pp.1-2
6. **THE EFFECTS OF SURFACE CHARACTERISTICS OF WAVE IMPACT LOADS ON CYLINDRICAL STRUCTURES**  
Beity A. M. A. A., Korkmaz F. C., Güzel B.  
7. ULUSLARARASI 19 MAYIS YENİLİKÇİ BİLİMSEL YAKLAŞIMLAR KONGRESİ, 19 May 2022, pp.1-4
7. **The Effect of Baffle Location on Sloshing in The Rectangular Tank**  
Bayramoğlu T., Korkmaz F. C., Bayramoğlu K.  
7th International Congress on Engineering, Architecture and Design, İzmir, Turkey, 21 - 22 May 2021, pp.1-5
8. **Experimental Study on Sloshing Behaviour of Various Viscous Fluids**  
Korkmaz F. C., Güzel B.  
9th INTERNATIONAL CONFERENCE ON MATHEMATICS, ENGINEERING, NATURAL SCIENCES, Marrakush, Morocco,

23 - 26 January 2020, pp.1-2

9. **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
10. **Experimental investigation of the sloshing under various surface parameters**  
KORKMAZ F. C., YİĞİT K., GÜZEL B.  
4th International Conference on Engineering and Natural Sciences (ICENS), Kiev, Ukraine, 02 May 2018, pp.407
11. **Examination of the effects of pressure transducer types to liquid sloshing in ship tanks**  
YİĞİT K., KORKMAZ F. C., GÜZEL B.  
4th International Conference on Engineering and Natural Sciences (ICENS), Kiev, Ukraine, 02 May 2018, pp.406
12. **EXPERIMENTAL INVESTIGATION OF SUPERCAVITATING FLOWS**  
GÜZEL B., KORKMAZ F. C., BAYAR H.  
4th International Conference on Engineering and Natural Sciences (ICENS), 2 - 07 May 2018
13. **Experimental investigation of the effect of flexibility on impact forces during slamming events**  
GÜZEL B., KORKMAZ F. C.  
the 4th International Conference on Engineering and Natural Sciences, Budapeşte, Hungary, 03 May 2017, pp.223
14. **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
15. **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
16. **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
17. **Jet formation and water pile-up in slamming of rigid bodies**  
GÜZEL B., Korkmaz F. C.  
ICENS, 01 May 2015
18. **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
19. **Effects of Controller on System Characteristics and an Application on Ship Propulsion System**  
SU M. E., KORKMAZ F. C., ALARÇIN F.  
International Science and Technology Conference, 01 December 2012
20. **PID CONTROL OF A SHIP SHAFT TORSIONAL VIBRATION**  
Alarçin F., Korkmaz F. C.  
International Conference of Advances and Challenges in marine noise and vibration, Glasgow, United Kingdom, 5 - 12 September 2012, pp.189-194
21. **DETERMINATION OF APPROPRIATE TORSIONAL VIBRATION DAMPERS FOR A SHIP PROPULSION PLANT**  
Korkmaz F. C., Alarçin F.  
Proceedings of 14th International conference „Maritime Transport and Infrastructure, Riga, Latvia, 11 July 2022, pp.126-131

## Academic and Administrative Experience

## Advising Theses

Korkmaz F. C., Investigation of the effects of solid surface characteristics on wave impact loads acting on offshore structures, Postgraduate, A.MOHAMED(Student), 2023

Korkmaz F. C., Gemi Yapısal Elemanlarının Vibro-akustik Açısından İncelenmesi ve Optimizasyonu, Postgraduate, A.SELÇUK(Student), 2023

Korkmaz F. C., FARKLI ŞEKİL VE KONUMLARDAKİ PERDE TİPİ ENGELLERİN DİKDÖRTGEN BİR TANKTA ÇALKANTIYA ETKİSİNİN SAYISAL OLARAK İNCELENMESİ, Postgraduate, T.BAYRAMOĞLU(Student), 2021

## Scientific Refereeing

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART D: JOURNAL OF AUTOMOBILE ENGINEERING, SCI Journal, August 2024

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART M: JOURNAL OF ENGINEERING FOR THE MARITIME ENVIRONMENT, National Scientific Refreed Journal, August 2024

OCEAN ENGINEERING, SCI Journal, July 2024

OCEAN ENGINEERING, SCI Journal, July 2024

OCEAN ENGINEERING, SCI Journal, May 2024

PLOS ONE, SCI Journal, February 2024

APPLIED OCEAN RESEARCH, SCI Journal, February 2024

EARTHQUAKE AND STRUCTURES, SCI Journal, February 2024

FLUID DYNAMICS RESEARCH, SCI Journal, January 2024

MEASUREMENT: JOURNAL OF THE INTERNATIONAL MEASUREMENT CONFEDERATION, SCI Journal, January 2024

Gemi ve Deniz Teknolojisi, National Scientific Refreed Journal, January 2024

OCEAN ENGINEERING, SCI Journal, September 2023

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART M: JOURNAL OF ENGINEERING FOR THE MARITIME ENVIRONMENT, SCI Journal, April 2023

BRODOGRADNJA, SCI Journal, February 2023

OCEAN ENGINEERING, SCI Journal, December 2022

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART D: JOURNAL OF AUTOMOBILE ENGINEERING, SCI Journal, December 2022

OCEAN ENGINEERING, SCI Journal, July 2022

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART G-JOURNAL OF AEROSPACE ENGINEERING, SCI Journal, February 2022

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART D-JOURNAL OF AUTOMOBILE ENGINEERING, SCI Journal, February 2022

OCEAN ENGINEERING, SCI Journal, February 2022

Journal of Eta Maritime Science (JEMS), Other Indexed Journal, October 2021

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART M-JOURNAL OF ENGINEERING FOR THE MARITIME ENVIRONMENT, SCI Journal, September 2021

Journal of Marine Science and Application, Other Indexed Journal, June 2021

POLISH MARITIME RESEARCH, SCI Journal, June 2021

SN Applied Sciences, Other Indexed Journal, February 2021

OCEAN ENGINEERING, National Scientific Refreed Journal, February 2021

OCEAN ENGINEERING, SCI Journal, August 2020

OCEAN ENGINEERING, SCI Journal, January 2020

OCEAN ENGINEERING, SCI Journal, November 2019

OCEAN ENGINEERING, SCI Journal, October 2019

MARINE GEORESOURCES & GEOTECHNOLOGY, SCI Journal, October 2019

OCEAN ENGINEERING, SCI Journal, July 2019

JOURNAL OF ETA MARITIME SCIENCE, National Scientific Refreed Journal, May 2019

China Ocean Engineering, SCI Journal, April 2018

Brodogradnja, SCI Journal, December 2017

## **Metrics**

Publication: 36

Citation (WoS): 34

Citation (Scopus): 71

H-Index (WoS): 3

H-Index (Scopus): 5

## **Research Areas**

Fluid Mechanics, Renewable Energy Systems, Alternative Energy Resources, Mechanical Vibrations, Naval Architecture and Marine Engineering, Ship Hydromechanics, Engineering and Technology

## **Non Academic Experience**

Negmar Denizcilik