

Asst. Prof. Birgöl AŞÇIOĞLU TEMİZTAŞ

Personal Information

Email: birgul@yildiz.edu.tr

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

International Researcher IDs

ORCID: 0000-0003-2459-8708

Publons / Web Of Science ResearcherID: A-7300-2018

Yoksis Researcher ID: 108080

Education Information

Doctorate, Auburn University, Engineering Faculty, Polymer And Fiber Engineering, United States Of America 2002 - 2005

Postgraduate, Karadeniz Technical University, Fen Bilimler Enstitüsü, Makine Mühendisliği, Turkey 1999 - 2002

Undergraduate, Karadeniz Technical University, Mühendislik Mimarlık Fakültesi, Makine Mühendisliği, Turkey 1995 - 1999

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Manufacturing and Heat Transfer Analysis of Nano-Micro Fiber Composites, Auburn University, Material, Polymer And Fiber Engineering, 2005

Postgraduate, Rotor Sistemlerinin Sonlu Elemanlar Yöntemi ile Analizi, Karadeniz Teknik Üniversitesi, Makine Dinamiği, Makine Mühendisliği, 2002

Research Areas

Mechanical Engineering, Construction and Manufacturing, Machine Elements, Machine Design, Mechanical, Finite Element Methods, Biomechanics, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2018 - Continues

Assistant Professor, Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2013 - 2018

Research Assistant, Auburn University, Engineering Faculty, Department Of Polymer And Fiber Engineering, 2002 - 2005

Research Assistant, Karadeniz Technical University, Mühendislik Mimarlık Fakültesi, Makine Mühendisliği, 1999 - 2002

Courses

Computer Aided Design, Undergraduate, 2021 - 2022
Finite Element Method in Mechanical Engineering, Undergraduate, 2020 - 2021
Machine Elements 2, Undergraduate, 2020 - 2021
Machine Elements 1, Undergraduate, 2020 - 2021
Finite Element Analysis of Machine Elements, Postgraduate, 2020 - 2021

Advising Theses

Aşçıoğlu Temiztaş B., Çamaşır Makinesi Dengeleme Halkasının Modellenmesi, Postgraduate, E.ÖVÜNÇ(Student), 2022
Aşçıoğlu Temiztaş B., KÜRESEL TAKVİYE ELEMANI İÇEREN KOMPOZİT YAPILARDA BASMA DAVRANIŞININ İNCELENMESİ, Postgraduate, F.AKPINAR(Student), 2022
Aşçıoğlu Temiztaş B., Ergenç A. T. , Transmission System Design for Power Transmission of an Internal Combustion Engine and Electric Motor to the Gearbox Input in a Hybrid Vehicle Drive System, Postgraduate, D.Yıldız(Student), 2021
Aşçıoğlu Temiztaş B., Analytical And Numerical Investigation Of Fatigue Life In Natural Fiber Reinforced Composites, Postgraduate, T.Çalışkan(Student), 2021
Aşçıoğlu Temiztaş B., Bolat B., Theoretical and Numerical Analysis of a Belt Conveyor Carrying Bulk Material, Postgraduate, M.Ozan(Student), 2021
Aşçıoğlu Temiztaş B., Demir C., Helikopter Ana Rotor Göbeğinin Maksimum Uçuş Yükleri Altında Sonlu Elemanlar Analizi, Postgraduate, M.TALHA(Student), 2020
Aşçıoğlu Temiztaş B., Bolat B., SERVİKAL OMURGANIN BİYOMEKANİK ANALİZİ, Postgraduate, K.NAMAL(Student), 2020
Aşçıoğlu Temiztaş B., Livatyahı H., HOT FORGING PROCESS DESIGN AND SENSITIVITY ANALYSIS FOR LONG, THIN AND TUBULAR COMPONENTS, Postgraduate, B.KABATAŞ(Student), 2020
Bolat B., Aşçıoğlu Temiztaş B., Süt pompası tasarımı, Postgraduate, M.EDA(Student), 2020
Aşçıoğlu Temiztaş B., Muz lifi takviyeli kompozit malzemenin üretimi ve termal analizi, Postgraduate, N.ŞİFA(Student), 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of the effect of wavy honeycomb on the bending performance of the sandwich structure**
Solak A., Aşçıoğlu Temiztaş B., Bolat B.
JOURNAL OF SANDWICH STRUCTURES AND MATERIALS, vol.24, no.5, pp.1905-1919, 2022 (Peer-Reviewed Journal)
- II. **Estimation of wavy honeycombs' compression performance via a machine learning algorithm**
Solak A., Aşçıoğlu Temiztaş B., Bolat B.
LATIN AMERICAN JOURNAL OF SOLIDS AND STRUCTURES, vol.18, no.8, 2021 (Peer-Reviewed Journal)
- III. **Modeling of Transverse Direction Thermal Conductivity in Micro-nano Fiber-reinforced Composites**
Aşçıoğlu Temiztaş B., Adanur S., Gümüşel L., Baş H.
Textile Research Journal, vol.79, no.12, pp.1059-1066, 2009 (Journal Indexed in SCI)
- IV. **Nanocomposite Fiber Based Web and Membrane Formation and Characterization**
Adanur S., Aşçıoğlu Temiztaş B.
Journal of Industrial Textiles, vol.36, pp.311-327, 2007 (Peer-Reviewed Journal)

Articles Published in Other Journals

- I. **Experimental and Numerical Analysis of Steel wires used in Materials Handling Systems**

Bolat B., Aşçıoğlu Temiztaş B., Boğoçlu M. E. , Bayraktaroğlu B.

Dicle Üniversitesi Mühendislik Fakültesi, vol.11, no.3, pp.1093-1101, 2020 (National Refreed University Journal)

II. **Asansör Kuyu Ara Bölmesindeki Çelik Profil Hesaplaması**

ÖZTÜRK M., BOLAT B., BOĞOÇLU M. E. , AŞÇIOĞLU TEMİZTAŞ B.

Asansör Vizyon, no.51, pp.35-40, 2016 (National Non-Refereed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. Solak A., Aşçıoğlu Temiztaş B., Bolat B.
2. INTERNATIONAL MEDITERRANEAN SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, Girne, Cyprus (Kktc), 30 July - 31 August 2022, pp.492
- II. **Breast Pump Design**
Alper M. E. , Bolat B., Aşçıoğlu Temiztaş B.
International Congress of Engineering and Natural Sciences, Ankara, Turkey, 7 - 09 May 2021, pp.113
- III. **DESIGN OF A TRANSMISSION SYSTEM FOR POWER TRANSMISSION TO THE TRANSMISSION INPUT OF THE ELECTRIC MOTOR WITH THE INTERNAL COMBUSTION ENGINE IN A HYBRID VEHICLE DRIVE SYSTEM**
Yıldız D., Aşçıoğlu Temiztaş B., Ergenç A. T.
5. Uluslararası Mühendislik ve Teknoloji Yönetimi Kongresi, İstanbul, Turkey, 24 - 26 April 2021, pp.276-281
- IV. **Theoretical and Numerical Analysis of a Belt Conveyor Carrying Bulk Material**
Karabulut M. O. , Aşçıoğlu Temiztaş B., Bolat B.
International Congress on Engineering Sciences and Multidisciplinary Approaches, İstanbul, Turkey, 23 - 24 February 2021, pp.571
- V. **"Finite element analysis of a main rotor hub under maximum flying loads for a helicopter"**
Ertunç M. T. , Aşçıoğlu Temiztaş B., Demir C.
3. INTERNATIONAL CONFERENCE ON MATERIALS SCIENCE, MECHANICAL AND AUTOMOTIVE ENGINEERINGS AND TECHNOLOGY IN TURKEY, Nevşehir, Turkey, 24 - 26 June 2020, pp.396
- VI. **MODELLING OF VIBRATION MOVEMENT OF THE WASHING MACHINE BALANCING RING ON A SINGLE AXIS BY SMOOTHED PARTICLE HYDRODYNAMICS METHOD**
Şengün E. Ö. , Aşçıoğlu Temiztaş B.
International Marmara Sciences Congress (Spring 2020), Kocaeli, Turkey, 19 - 20 June 2020, pp.63
- VII. **ANALYTICAL AND NUMERICAL INVESTIGATION OF FATIGUE LIFE IN NATURAL FIBER REINFORCED COMPOSITES**
ÇALIŞKAN T., AŞÇIOĞLU TEMİZTAŞ B.
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL, 17 - 19 December 2019
- VIII. **BIOMECHANICAL ANALYSIS OF CERVICAL SPINE**
NAMAL K., AŞÇIOĞLU TEMİZTAŞ B.
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, 17 - 19 December 2019
- IX. **hot forging process design and sensitivity analysis for long, thin and tubular components**
Kabataş B., Aşçıoğlu Temiztaş B., Livatyalı H.
5th Int. Conf. on Advances in Mechanical Engineering, İstanbul, Turkey, 17 - 19 December 2019, vol.1, pp.625-632
- X. **Mısır Nişastası Bazlı Muz Lifi Takviyeli Doğal Kompozitin İmalatı ve Termal Özelliklerinin İncelenmesi**
ŞİFA N., AŞÇIOĞLU TEMİZTAŞ B.
Ereğli International Science and Academic Congress'xx19, 9 - 10 May 2019
- XI. **Systematic Construction of a Breast Pump**
AŞÇIOĞLU TEMİZTAŞ B., Ertunç T., AZELOĞLU C. O.
4th INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL, İstanbul, Turkey, 19 December 2018, pp.380-385
- XII. **Design and Analysis of Crash Box For Formula Student Car**

AŞÇIOĞLU TEMİZTAŞ B., BAYRAK R., DALGIÇ A.

3rd International Symposium on Industrial Design & Engineering, Antalya, Turkey, 22 November 2018, pp.100

XIII. CRASH ANALYSIS OF REAR UNDER-RUN PROTECTION DEVICE BY FINITE ELEMENT METHOD

AŞÇIOĞLU TEMİZTAŞ B., ÇAKMAÇI F., Bilgiç B., BAYRAK R.

3rd INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 19 December 2017, pp.372

XIV. Multiaxial Fatigue Analysis of a Plastically Deformed Hook Using Critical Plane Theory

Oral A., Dursun M., Şengün E. N. , Aşçıoğlu Temiztaş B.

3rd INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2017, İstanbul, Turkey, 19 - 21 December 2017, pp.381-389

XV. Numerical and Analytical Analysis of Point Contact

Aşçıoğlu Temiztaş B., Tekin N. C. , Bayrak R., Oral A.

3rd INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2017, İstanbul, Turkey, 19 - 21 December 2017, pp.410-415

XVI. Hexagonal Unit Cell Model in Nano-Micro fiber reinforced Composites

AŞÇIOĞLU TEMİZTAŞ B., Adanur S.

ULIBTK'07 16. Ulusal Isı Bilimi ve Tekniği Kongresi, Kayseri, Turkey, 30 May 2007, pp.1

XVII. Nanofiber coating and nanofiber based continuous yarn manufacturing

AŞÇIOĞLU TEMİZTAŞ B., Adanur S.

2nd Textile Technologies and Textiles Machines Congress, Gaziantep, Turkey, 19 January 2007, pp.1

XVIII. Challenges and Opportunities in Nano Fiber Manufacturing and Applications

Adanur S., AŞÇIOĞLU TEMİZTAŞ B.

”, 2nd International Textiles Congress, İstanbul, Turkey, 13 July 2005, pp.1

XIX. Nano Engineered Fire Resistant Composite Fibers

AŞÇIOĞLU TEMİZTAŞ B., Adanur S., Patra P., İnan G.

National Textile Center Annual Forum, Rayleigh, United States Of America, 01 March 2005, pp.1

XX. Modeling of Thermal Conductivity in Nanofiber reinforced composites

Adanur S., AŞÇIOĞLU TEMİZTAŞ B.

11th International Conference on Composites/Nano Engineering (ICCE-11), Hilton Head, Hilton Head Island, United States Of America, 08 August 2004, pp.3

XXI. In-Situ Polymerized Flame Retardant Nanocomposites

Patra P., İnan G., Adanur S., AŞÇIOĞLU TEMİZTAŞ B.

10th International Conference on Composites/Nano Engineering (ICCE-10), New Orleans, United States Of America, 20 July 2003, pp.1-2

Supported Projects

Solak A., Aşçıoğlu Temiztaş B., Bolat B., Project Supported by Higher Education Institutions, Dalgalı bal peteği sandviç yapıların eğilme davranışlarının incelenmesi, 2022 - 2024

Durak K., Aşçıoğlu Temiztaş B., TUBITAK Project, Physical Therapy System Design for Disabled Animals, 2022 - 2023

Aşçıoğlu Temiztaş B., Bolat B., SOLAK A., Project Supported by Higher Education Institutions, Bantlı Konveyörlerde Farklı Bant Tasarımlarının Mekanik Özelliklerinin Deneysel ve Sayısal olarak İncelenmesi, 2021 - 2023

AŞÇIOĞLU TEMİZTAŞ B., Other Supported Projects, Nano Engineered Fire Resistant Composite Fibers, 2002 - 2005

Metrics

Publication: 27

Citation (WoS): 1

Citation (Scopus): 1

H-Index (WoS): 1

H-Index (Scopus): 1

Non Academic Experience

Business Establishment Private, Milper

Business Establishment Private, Emas

Business Establishment Private, Tofaş

Business Establishment Private, Valeo