

Assoc. Prof. Birgöl AŞÇIOĞLU TEMİZTAŞ

Personal Information

Email: birgul@yildiz.edu.tr

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

Address: "Görüşme saatleri Pazartesi 11.00-12.00 ve Çarşamba 13.00-15.00 saatleri arasındır. "Office hours on Monday between 11:00-12:00 and on Wednesday between 13:00-15:00

International Researcher IDs

ORCID: 0000-0003-2459-8708

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

ScopusID: 16400886000

Yoksis Researcher ID: 108080

Education Information

Doctorate, Auburn University, Engineering Faculty, 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, 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, Mechanical Properties, Composites, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2024 - Continues

Assistant Professor, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2018 - 2024

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

Research Assistant, Auburn University, Engineering Faculty, 2002 - 2005

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

Academic and Administrative Experience

Deputy Head of Department, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2022 - Continues

Courses

Araştırma Yöntemleri ve Bilimsel Etik, Postgraduate, 2022 - 2023

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., CFD Ve Regresyon Analizi İle Elektrik Motoru Radyal Fan Optimizasyonu, Postgraduate, İ.TÜRKOĞLU(Student), 2024

Aşçıoğlu Temiztaş B., Bolat B., Dalgalı bal peteklerin basma, eğme ve çarpma durumlarındaki mekanik davranışlarının incelenmesi, Doctorate, A.SOLAK(Student), 2023

Aşçıoğlu Temiztaş B., KURUTMA MAKİNESİ PROSES FANININ TASARIM PARAMETRELERİNİN FAN PERFORMANSINA ETKİSİ, Postgraduate, O.YILMAZ(Student), 2023

Aşçıoğlu Temiztaş B., Bolat B., Nitinol Enjeksiyon İğnesinin Yumuşak Doku Üzerindeki Davranışı, Postgraduate, D.AKSOY(Student), 2023

Aşçıoğlu Temiztaş B., Tanlak N., Düztaban ve Diyabet Hastası Bireyler için Kafes Yapılar Kullanılarak Ayakkabı Tabanı Tasarımı ve Optimizasyonu, Postgraduate, İ.DEMİRBAŞ(Student), 2023

Bolat B., Aşçıoğlu Temiztaş B., Bantlı Konveyörlerde Sehim ve Eğim Faktörünün Teorik ve Numerik Olarak İncelenmesi, Postgraduate, E.SEZER(Student), 2023

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., Bolat B., SERVİKAL OMURGANIN BİYOMEKANİK ANALİZİ, Postgraduate, K.NAMAL(Student), 2020

Aşçıoğlu Temiztaş B., Demir C., Helikopter Ana Rotor Göbeğinin Maksimum Uçuş Yükleri Altında Sonlu Elemanlar Analizi, Postgraduate, M.TALHA(Student), 2020

Bolat B., Aşçıoğlu Temiztaş B., Süt pompası tasarımı, Postgraduate, M.EDA(Student), 2020

Aşçıoğlu Temiztaş B., Livatyalı H., HOT FORGING PROCESS DESIGN AND SENSITIVITY ANALYSIS FOR LONG, THIN AND TUBULAR COMPONENTS, Postgraduate, B.KABATAŞ(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. **Fabrication of composite polymers with micron size copper and graphite additives in masked stereolithography**
Kaya A. C., Sandık M. H., Aşçıoğlu Temiztaş B.
JOURNAL OF MATERIALS RESEARCH, vol.1, no.1, pp.1-14, 2024 (SCI-Expanded)
- II. **Investigation of the effects of radial clearance on the screw conveyor performances for different inclinations**
Bolat B., Aşçıoğlu Temiztaş B., Sezer E.
PARTICULOLOGY, vol.92, pp.72-80, 2024 (SCI-Expanded)
- III. **Maximum Safety Limits of Laminectomy of the C1 Vertebra for Chiari Malformation Surgery: A Finite Element Analysis**
Kayalar A. E., Yaltrık C. K., Kalyoncu E., Aşçıoğlu Temiztaş B., Bolat B., Etili M. U., Çalışaneller A. T., Naderi S.
INDIAN JOURNAL OF ORTHOPAEDICS, vol.57, pp.1-10, 2023 (SCI-Expanded)
- IV. **Investigation of numerical belt sag and conveyor capacities in inclined belt conveyors: An iterative approach**
Bolat B., Aşçıoğlu Temiztaş B., Sezer E., Solak A.
POWDER TECHNOLOGY, vol.1, pp.118394-118395, 2023 (SCI-Expanded)
- V. **Numerical investigation of the mechanical behavior of the vertical stabilizer leading edge with wavy honeycomb sandwich structure under bird strike**
Solak A., Aşçıoğlu Temiztaş B., Bolat B.
JOURNAL OF SANDWICH STRUCTURES AND MATERIALS, vol.1, no.1, pp.1-14, 2022 (SCI-Expanded)
- VI. **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 (SCI-Expanded)
- VII. **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 (SCI-Expanded)
- VIII. **Modeling of Transverse Direction Thermal Conductivity in Micro-nano Fiber-reinforced Composites**
AŞÇIOĞLU TEMİZTAŞ B., Adanur S., GÜMÜŞEL L., BAŞ H.
Textile Research Journal, vol.79, no.12, pp.1059-1066, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **AN EXPERIMENTAL INVESTIGATION OF THE SPEED LOSSES IN POLY-V BELT SYSTEMS ON HOUSEHOLD DRYERS**
Mutludoğan M., Bolat B., Aşçıoğlu Temiztaş B.
Kahramanmaraş Sütçü İmam Üniversitesi Fen ve Mühendislik Dergisi, vol.26, no.4, pp.1017-1025, 2023 (Peer-Reviewed Journal)
- II. **Process optimization for hot forging of difficult parts by computer experiments and response surface analysis**
Kabataş B., LİVATYALI H., AŞÇIOĞLU TEMİZTAŞ B.
Journal of Advances in Manufacturing Engineering, vol.3, no.2, pp.33-45, 2022 (Peer-Reviewed Journal)
- III. **Virtual testing of aluminum and Nomex® honeycomb core structures using ls-dyna and Python/Seaborn**
Solak A., Aşçıoğlu Temiztaş B., Bolat B.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.40, no.4, pp.823-836, 2022 (ESCI)
- IV. **Farklı Eğimlerdeki Bantlı Konveyörlerde Kapasitenin Ayrık Elemanlar Metoduyla (DEM) İncelenmesi**
Bolat B., Aşçıoğlu Temiztaş B., Sezer E.

Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, vol.13, no.4, pp.709-714, 2022 (Peer-Reviewed Journal)

- V. **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 (Peer-Reviewed Journal)
- VI. **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 (Non Peer-Reviewed Journal)
- VII. **Nanocomposite fiber based web and membrane formation and characterization**
Adanur S., Ascioğlu B.
Journal of Industrial Textiles, vol.36, no.4, pp.311-327, 2007 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **Düztaban ve Diyabet Hastası Bireyler için Kafes Yapılar Kullanılarak Ayakkabı Tabanı Tasarımı ve Optimizasyonu**
DEMİRBAŞ İ., AŞÇIOĞLU TEMİZTAŞ B., TANLAK N.
10.ULUSLARARASI MÜHENDİSLİK MİMARLIK VE TASARIM KONGRESİ, İstanbul, Turkey, 24 - 26 December 2022, pp.1857
- II. **THEORETICAL AND NUMERICAL INVESTIGATION OF THE BELT SAG AND ANGLE FACTOR IN BELT CONVEYORS**
BOLAT B., AŞÇIOĞLU TEMİZTAŞ B., SEZER E.
International Conference on Advanced Technologies (ICAT'22), Van, Turkey, 25 November 2022, pp.166
- III. Solak A., Aşçıoğlu Temiztaş B., Bolat B.
2. INTERNATIONAL MEDITERRANEAN SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, Girne, Cyprus (Kkctc), 30 July - 31 August 2022, pp.492
- IV. **KÜRESEL TAKVİYE ELEMANI İÇEREN KOMPOZİT YAPILARDA BASMA DAVRANIŞININ İNCELENMESİ**
AKPINAR F., AŞÇIOĞLU TEMİZTAŞ B.
8. ULUSLARARASI MARMARA FEN BİLİMLERİ KONGRESİ (IMASCON), Kocaeli, Turkey, 13 May 2022
- V. **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
- VI. **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
- VII. **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
- VIII. **"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
- IX. **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
- X. **BIOMECHANICAL ANALYSIS OF CERVICAL SPINE**

NAMAL K., AŞÇIOĞLU TEMİZTAŞ B.

5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, 17 - 19 December 2019

- XI. **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
- XII. **hot forging process design and sensitivity analysis for long, thin and tubular components**
Kabataş B., Aşçioğlu Temiztaş B., Livatyali H.
5th Int. Conf. on Advances in Mechanical Engineering, İstanbul, Turkey, 17 - 19 December 2019, vol.1, pp.625-632
- XIII. **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
- XIV. **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
- XV. **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
- XVI. **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
- XVII. **Multiaxial Fatigue Analysis of a Plastically Deformed Hook Using Critical Plane Theory**
Oral A., Dursun M., Şengün E. N., Aşçioğlu Temiztaş B.
3rd INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2017, İstanbul, Turkey, 19 - 21 December 2017, pp.381-389
- XVIII. **Numerical and Analytical Analysis of Point Contact**
Aşçioğlu 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
- XIX. **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
- XX. **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
- XXI. **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
- XXII. **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
- XXIII. **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
- XXIV. **Heat Transfer Behavior of Particle Reinforced Nanocomposites**
AŞÇIOĞLU TEMİZTAŞ B., ADANUR S.
22nd Southeastern Conference on Theoretical and Applied Mechanics (SECTAM22), 4 - 06 February 2004

XXV. 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., TÜBİTAK 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 International Funding Programs, Nano Engineered Fire Resistant Composite Fibers, 2002 - 2005

Metrics

Publication: 40

Citation (WoS): 16

Citation (Scopus): 34

H-Index (WoS): 3

H-Index (Scopus): 4

Non Academic Experience

Company, MİLPER Pervaneleri A.Ş., Research and Development

Company, Üç Sistem, Research and Development

Company, EMAS, Research and Development

Company, TOFAŞ, Research and Development

Company, VALEO, Research and Development