

# Prof. Hamit AKBULUT

## Personal Information

**Office Phone:** [+90 442 231 4837](tel:+904422314837)

**Fax Phone:** [+90 442 231 4910](tel:+904422314910)

**Email:** [akbuluth@atauni.edu.tr](mailto:akbuluth@atauni.edu.tr)

**Web:** <https://avesis.atauni.edu.tr/akbuluth>

**Address:** Atatürk Üniversitesi Mühendislik Fakültesi Makine Mühendisliği

## International Researcher IDs

ScholarID: Ug2gL4MAAAAJ

ORCID: 0000-0003-0061-5067

Yoksis Researcher ID: 33573

## Education Information

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, Turkey 1992 - 1996

Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, Turkey 1989 - 1992

Undergraduate, Erciyes University, Mühendislik Fakültesi, Makine Mühendisliği, Turkey 1983 - 1987

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, Dikdörtgen bir delik bulunan kompozit plaklarda burkulma analizi , Dokuz Eylül Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği, 1996

Postgraduate, Sonlu Eleman Metodu ile bir otomobil jantının üç boyutlu gerilme analizi, Dokuz Eylül Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği, 1992

## Research Areas

Mechanical Engineering, Mechanical, Solid Mechanics, Engineering and Technology

## Academic Titles / Tasks

Professor, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, 1988 - Continues

## Academic and Administrative Experience

Kriter Komisyon Üyeliği, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, 2017 - Continues

Kriter Komisyonu üyesi, Ataturk University, 2017 - Continues

Atatürk Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2007 - Continues

Atatürk Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, 2012 - 2018

Atatürk Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, 2009 - 2012

## Courses

Mukavemet-II, Undergraduate, 2023 - 2024, 2022 - 2023

Mukavemet-II, Undergraduate, 2023 - 2024

İleri Mukavemet, Postgraduate, 2023 - 2024, 2020 - 2021, 2019 - 2020

Mukavemet II, Undergraduate, 2023 - 2024

İleri Mukavemet, Postgraduate, 2023 - 2024

KOMPOZİT MALZEMELER ve Mekniği, Postgraduate, 2023 - 2024, 2022 - 2023

Mukavemet-I, Undergraduate, 2023 - 2024, 2022 - 2023

KOMPOZİT MALZEMELER VE MEKANIĞI, Postgraduate, 2023 - 2024

Tabakalı Kompozit Malzemeler, Doctorate, 2022 - 2023

TABAKALI KOMPOZİT MALZEMLER, Doctorate, 2022 - 2023, 2020 - 2021, 2019 - 2020, 2018 - 2019

Mukavemet I, Undergraduate, 2022 - 2023

Bitirme Proesi II, Undergraduate, 2020 - 2021, 2019 - 2020

Mukavemet II, Undergraduate, 2020 - 2021, 2019 - 2020

Mukavemet II, Undergraduate, 2020 - 2021, 2019 - 2020

Bitirme Projesi-II, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019

MAKİNE MÜH. SEÇMELİ TASARIM II, Undergraduate, 2020 - 2021, 2019 - 2020

MAKİNE MÜH. SEÇMELİ TASARIM II, Undergraduate, 2020 - 2021, 2019 - 2020

Bitirme Projesi II, Undergraduate, 2020 - 2021

MAKİNE MÜH. SEÇMELİ TASARIM I, Undergraduate, 2020 - 2021, 2019 - 2020

Mukavemet I, Undergraduate, 2020 - 2021, 2019 - 2020

MAKİNE MÜH. SEÇMELİ TASARIM I, Undergraduate, 2020 - 2021, 2019 - 2020

Mukavemet I, Undergraduate, 2020 - 2021, 2019 - 2020

Bitirme Projesi-I, Undergraduate, 2020 - 2021, 2019 - 2020

Advanced Strength of Materials, Postgraduate, 2016 - 2017

## Advising Theses

Akbulut H., Grafen Nanopartikül Modifiyeli STF Katkılı Sandviç Kompozitlerin Mekanik ve Modal Özelliklerinin İncelenmesi, Postgraduate, S.ÇAĞLAYAN(Student), 2023

Akbulut H., Modifiye Edilmiş Bitkisel Yağlardan Biyokompozit Malzeme Üretimi ve Karakterizasyonu, Postgraduate, E.SENA(Student), 2023

Akbulut H., Anizogrid ağı yapıların optimizasyonu, Doctorate, R.MOHAMMADZADEH(Student), 2020

AKBULUT H., Al<sub>2</sub>O<sub>3</sub> SERAMİK TOZU KATKILI POLİÜRETAN KÖPÜK ÇEKİRDEKLİ SANDVIÇ PLAKLARIN TİTREŞİM ve BURKULMA DAVRANIŞLARI, Postgraduate, T.KHAN(Student), 2019

AKBULUT H., Cam ve Karbon Elyaf Takviyeli Kompozit Malzemelerin Farklı İstifleme Şekillerine Göre Mekanik Özelliklerinin Belirlenmesi, Postgraduate, O.Albayrak(Student), 2019

AKBULUT H., Grafen Nanoyapı Katkılı Çift Bindirmeli Yapıştırma Bağlantılarının Dinamik ve Mekanik Analizi, Postgraduate, B.Hülagü(Student), 2018

AKBULUT H., Bakır ve Alüminyum Gibi Metallerin Enzimatik ve Bakteriyel Yöntemlerle Nano İşlenmesi ve Bu Yöntemlerin Etkinliğinin Karşılaştırılması, Doctorate, A.LESANİ(Student), 2017

AKBULUT H., Termal Çevrimin Bazalt-Karbon Intra-Ply Hibrit Elyaf Takviyeli Karbon Nanotüp veya Grafen Dolgulu Polimer Kompozitlerin Mekanik ve Termal Özellikleri Üzerindeki Etkileri, Doctorate, F.AZİMPOUR(Student), 2015

AKBULUT H., Karayollarındaki İşaret Levhalarının İmalatında Kompozit Malzeme Kullanımı, Postgraduate,

Y.Erbay(Student), 2014

Akbulut H., Karbon iplik dolgulu termoset film kompozitlerde arayüzey çalışmaları, Postgraduate, V.Acar(Student), 2013  
AKBULUT H., Düşük hızlı darbe yükü altında kompozitlerin davranışı, Postgraduate, S.Karadayı(Student), 2011  
AKBULUT H., Dairesel Plakların Burkulma Analizi, Postgraduate, M.Fatih(Student), 2011  
AKBULUT H., Kompozit borularda burkulma analizi, Doctorate, T.Ural(Student), 2008  
AKBULUT H., Tabakalı Kompozit plaklarda elasto-plastik gerilme analizi, Postgraduate, A.Çolak(Student), 2008  
AKBULUT H., Köşeleri dairesel çentikli tabakalı kompozit plaklarda burkulma analizi, Postgraduate, T.Ural(Student), 2002

## **Jury Memberships**

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Atatürk Üniversitesi, July, 2024

Doctorate, Doctorate, Harran Üniversitesi, February, 2024

Doctorate, Doctorate, Atatürk Üniversitesi, December, 2023

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Adana Alparslan Türkeş Bilim Ve Teknoloji Üniversitesi, December, 2023

Doctorate, Doctorate, Atatürk Üniversitesi, December, 2023

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Atatürk Üniversitesi, November, 2023

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Batman Üniversitesi, October, 2023

Associate Professor Exam, Associate Professor Exam, Adana Alparslan Türkeş Bilim Ve Teknoloji Üniversitesi, October, 2023

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Erzurum Teknik Üniversitesi, July, 2023

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Erzurum Teknik Üniversitesi, July, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, April, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, April, 2023

Doctorate, Doctorate, Harran Üniversitesi, March, 2023

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Atatürk Üniversitesi, February, 2023

Associate Professor Exam, Associate Professor Exam, Atatürk Üniversitesi, January, 2023

Associate Professor Exam, Associate Professor Exam, Atatürk Üniversitesi, January, 2023

Post Graduate, Post Graduate, Atatürk Üniversitesi, January, 2023

Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, January, 2023

Doctorate, Doctorate, Atatürk Üniversitesi, December, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, April, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, March, 2022

Doctorate, Doctorate, Atatürk Üniversitesi, February, 2022

Post Graduate, Post Graduate, Atatürk Üniversitesi, December, 2021

Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, November, 2021

Associate Professor Exam, Associate Professor Exam, Ataturk University, September, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2021

Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, June, 2021

Post Graduate, Post Graduate, Atatürk Üniversitesi, April, 2021

Associate Professor Exam, Associate Professor Exam, Atatürk Üniversitesi, February, 2021

Associate Professor Exam, Associate Professor Exam, Marmara Üniversitesi, January, 2021

Post Graduate, Post Graduate, Atatürk Üniversitesi, December, 2020

Doctorate, Doctorate, Atatürk Üniversitesi, December, 2020  
Competence In Art Examination, Competence In Art Examination, Atatürk Üniversitesi, November, 2020  
Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, November, 2020  
Associate Professor Exam, Associate Professor Exam, Atatürk Üniversitesi, July, 2020  
Associate Professor Exam, Associate Professor Exam, Atatürk Üniversitesi, July, 2020  
Associate Professor Exam, Associate Professor Exam, Atatürk Üniversitesi, July, 2020  
Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, January, 2020  
Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, January, 2020  
Post Graduate, Post Graduate, Atatürk Üniversitesi, January, 2020  
Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, January, 2020  
Appointment to Academic Staff-Assistant Professorship, Doktor Öğretim Üyeliğine atama, Atatürk Üniversitesi, June, 2019  
Appointment to Academic Staff-Assistant Professorship, Doçent ataması, Batman Üniversitesi, April, 2019  
Appointment to Academic Staff-Assistant Professorship, Profesörlük ataması, Trakya Üniversitesi, April, 2019  
Appointment to Academic Staff-Assistant Professorship, Doktor Öğretim Üyeliğine atama, Harran Üniversitesi, April, 2019  
2019  
Doctorate, Doktora tez savunma, Atatürk Üniversitesi, May, 2018

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

- I. **Numerical and Experimental Buckling Analysis for Circular Plates**  
Akbulut H., Bingol M. F.  
EXPERIMENTAL TECHNIQUES, vol.48, no.3, pp.439-448, 2024 (SCI-Expanded)
- II. **Recycled Ti6Al4V alloy powder reinforced polyurethane core based sandwich structures: Mechanical and modal properties**  
Aydin O. A., ACAR V., Aydin M. R., HÜLAGÜ B., Khan T., Unal H. Y., Teke E., Seydibeyoglu M. O., AKBULUT H.  
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, 2023 (SCI-Expanded)
- III. **Effects of introducing CNTs and GPLs on mechanical, modal, thermal, and water uptake properties of twill basalt fiber-reinforced epoxy matrix composites**  
Azimpour-Shishevan F., AKBULUT H., Mohtadi-Bonab M. A., Rahmatinejad B.  
JOURNAL OF THE TEXTILE INSTITUTE, vol.114, no.5, pp.701-716, 2023 (SCI-Expanded)
- IV. **Low velocity impact behavior of twill basalt/epoxy composites modified by graphene nanoparticles**  
Azimpour-Shishevan F., Mohtadi-Bonab M., AKBULUT H., Rahmatinejad B.  
Journal of Composite Materials, vol.57, pp.1379-1394, 2023 (SCI-Expanded)
- V. **The influence of addition of carbon nanotube and graphene platelets on characteristics of carbon/basalt fiber reinforced intra-ply hybrid composites**  
Azimpour-Shishevan F., Mohtadi-Bonab M. A., AKBULUT H.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.140, no.1, 2023 (SCI-Expanded)
- VI. **Comparative dynamic analysis of carbon, aramid and glass fiber reinforced interply and intraply hybrid composites**  
Raci Aydin M., ACAR V., Cakir F., GÜNDOĞDU Ö., AKBULUT H.  
Composite Structures, vol.291, 2022 (SCI-Expanded)
- VII. **A review on recent advances in sandwich structures based on polyurethane foam cores**  
Khan T., Acar V., Aydin M. R., Hülagü B., Akbulut H., Seydibeyoğlu M. Ö.  
Polymer Composites, vol.41, no.6, pp.2355-2361, 2020 (SCI-Expanded)
- VIII. **Residual stress analysis in symmetric thermoplastic laminated plates under thermal loads: Analytic solution**  
Senel M., Akbulut H., Toparli M.  
JOURNAL OF THERMOPLASTIC COMPOSITE MATERIALS, vol.17, no.6, pp.481-507, 2004 (SCI-Expanded)
- IX. **An elastic-plastic stress analysis of aluminum metal-matrix composite beams supported from two ends with a force acted at the mid point**

- Kucuk M., Akbulut H., Esendemir M.  
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, vol.21, no.15, pp.1363-1375, 2002 (SCI-Expanded)
- X. **Residual stresses in stainless steel fiber-reinforced aluminium matrix composite plates with central square hole**  
Akbulut H., Senel M.  
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, vol.21, no.10, pp.939-960, 2002 (SCI-Expanded)
- XI. **Elastic-plastic stress analysis of metal matrix laminated plates under in-plane and transverse loading**  
Sayman O., Ozbay M., Akbulut H.  
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, vol.20, no.5, pp.417-430, 2001 (SCI-Expanded)
- XII. **Elastic-plastic stress analysis and plastic zone propagation in fibre-reinforced thermoplastic laminates using finite element method**  
Aykul H., Atas C., Akbulut H.  
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, vol.20, no.15, pp.1301-1325, 2001 (SCI-Expanded)
- XIII. **An investigation on buckling of laminated plates with central square hole**  
Akbulut H., Sayman O.  
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, vol.20, no.13, pp.1112-1124, 2001 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Modeling and Analysis of Anisogrid Lattice Structures Using an Integrated Algorithmic Modelling Framework**  
Gheshlaghi R. M., AKBULUT H.  
COMPUTATIONAL RESEARCH PROGRESS IN APPLIED SCIENCE & ENGINEERING, vol.6, pp.6-10, 2020 (Peer-Reviewed Journal)
- II. **Silindirik kompozit borularda çift eksenli yüklemenin burkulmaya etkisi**  
URAL T., AKBULUT H.  
Dicle Üniversitesi Mühendislik Fakültesi Dergisi, vol.5, no.2, pp.99-109, 2014 (Peer-Reviewed Journal)

## Supported Projects

- AKBULUT H., ERTUĞRUL M., KARSLI YILMAZ N. G., YILMAZ T., SALMAN A. O., ACAR V., HÜLAGÜ B., Project Supported by Higher Education Institutions, GNP Kaplı Zincir Yapılı MXene Ti<sub>3</sub>C<sub>2</sub>Tx Nanoyapı ve NonNewtonian Akışkan ile Modifiye Edilmiş Özgün Bir Sandviç Kompozit Zırh Üretimi, 2022 - 2024
- AKBULUT H., ACAR V., PEKBAY Y., HÜLAGÜ B., ÜNAL H. Y., Project Supported by Higher Education Institutions, Grafen Nanoyapı Katkılı Çift Bindirmeli Yapıştırma Bağlantılarının Dinamik ve Mekanik Analizi, 2017 - 2019
- AKBULUT H., NADAROĞLU H., ACAR V., Project Supported by Higher Education Institutions, BAKIR VE ALÜMİNYUM GİBİ METALLERİN ENZİMATİK VE BAKTERİYEL YÖNTEMLERLE NANO İŞLENMESİ VE BU YÖNTEMLERİN ETKİNLİĞİNİN KARŞILAŞTIRILMASI, 2015 - 2017
- ALTUN H., ACAR V., AKBULUT H., Project Supported by Higher Education Institutions, MALZEMELERİN YAPI-ÖZELLİK İLİŞKİLERİNİN KARAKTERİZASYON ARAŞTIRMALARI, 2011 - 2012
- AKBULUT H., ACAR V., Project Supported by Higher Education Institutions, MALZEMELERİN MEKANİK DAVRANIŞLARI İLE İLGİLİ ARAŞTIRMALAR, 2011 - 2012
- AKBULUT H., Project Supported by Higher Education Institutions, GEOMETRİK BOŞLUKLAR BULUNAN DAİRESEL PLAKLARIN DENEYSEL VE TEORİK BURKULMA ANALİZİ., 2010 - 2011

## Scientific Refereeing

CONSTRUCTION AND BUILDING MATERIALS, SCI Journal, February 2024

SCIENTIFIC REPORTS, SCI Journal, December 2023

JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, SCI Journal, November 2023

MECHANICS OF ADVANCED MATERIALS AND STRUCTURES, SCI Journal, September 2023

IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY - TRANSACTIONS OF MECHANICAL ENGINEERING, Journal Indexed in SCI-E, April 2023

JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, December 2022

Journal of the Brazilian Society of Mechanical Sciences and Engineering, Other Indexed Journal, July 2021

TUBITAK Project, 1002 - Quick Support Program, TÜBİTAK, Turkey, March 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, TÜBİTAK, Turkey, September 2020

Structural Engineering and Mechanics, National Scientific Refreed Journal, January 2019

Mechanics of Advanced Materials and Structures, National Scientific Refreed Journal, July 2018

## **Scientific Consultations**

TÜBİTAK, Project Consultancy, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, Turkey, 2020 - Continues

## **Metrics**

Publication: 69

Citation (WoS): 483

Citation (Scopus): 545

H-Index (WoS): 13

H-Index (Scopus): 13

## **Non Academic Experience**

ATATÜRK ÜNİVERSİTESİ