

Prof. Hamit AKBULUT

Personal Information

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International Researcher IDs

ScholarID: Ug2gL4MAAAAJ

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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., Al₂O₃ 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-Professorship, Appointment to Academic Staff-Professorship, Kocaeli Üniversitesi, August, 2024

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

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

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

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

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

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

Associate Professor Exam, Associate Professor Exam, 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

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

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, 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
Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, November, 2020
Competence In Art Examination, Competence In Art 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
Post Graduate, Post Graduate, Atatürk Üniversitesi, January, 2020
Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, January, 2020
Doctoral Examination, Doctoral Examination, 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
Doctorate, Doktora tez savunma, Atatürk Üniversitesi, May, 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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, vol.43, no.19-20, pp.1113-1132, 2024 (SCI-Expanded)
- II. **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)
- 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 Ti3C2Tx Nanoyapı ve NonNewtonian Akışkan ile Modifiye Edilmiş Özgün Bir Sandviç Kompozit Zırh Üretimi, 2022 - 2024
- AKBULUT H., KHAN T., Project Supported by Higher Education Institutions, Geri Dönüştürülmüş Ti6Al4V Takviyeli Poliüretan Köpük Çekirdekli Sandviç Plakaların Burkulma Davranışları, 2018 - 2019
- AKBULUT H., ACAR V., PEKBEY 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., Project Supported by Higher Education Institutions, ANIZOGRİD AĞLI YAPILARIN OPTİMİZASYONU, 2015 - 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
- AKBULUT H., ACAR V., Project Supported by Higher Education Institutions, KARBON/EPOKSİ KOMPOZİT MALZEME MEKANİK ÖZELLİKLERİNİN NANOTEKNOLOJİK YÖNTEMLERLE ARAŞIRILMASI VE GELİŞTİRİLMESİ, 2011 - 2012
- 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

Project Supported by Higher Education Institutions, BAP Research Project, Gaziantep University, Turkey, September 2024

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): 604

H-Index (WoS): 13

H-Index (Scopus): 14

Non Academic Experience

ATATÜRK ÜNİVERSİTESİ