

## Prof. GÜRKAN ALTAN

### Personal Information

**Office Phone:** [+90 242 227 4400](tel:+902422274400) Extension: 4323

**Email:** [altan@akdeniz.edu.tr](mailto:altan@akdeniz.edu.tr)

**Web:** <https://avesis.akdeniz.edu.tr/altan>

**Address:** Akdeniz Üniversitesi Mühendislik Fakültesi Makine Mühendisliği Bölümü Antalya

### International Researcher IDs

ORCID: 0000-0002-2949-3852

Publons / Web Of Science ResearcherID: IQS-6245-2023

Yoksis Researcher ID: 55463

### Education Information

Doctorate, Pamukkale University, Institute Of Science, Makine Mühendisliği Anabilim Dalı, Turkey 2004 - 2009

Postgraduate, Pamukkale University, Institute Of Science, Makine Mühendisliği Anabilim Dalı, Turkey 2001 - 2004

Undergraduate, Dokuz Eylül University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 1995 - 1999

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Değişik Sıcaklık ve Nem Etkisinde Çalışan Birleştirilmiş Kompozit Malzemelerin Yorulma Mukavemetlerinin İncelenmesi, Pamukkale University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, 2009

Postgraduate, Kompozit Disklerde Termal Gerilme Analizi, Pamukkale University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, 2004

### Research Areas

Mechanical Engineering, Mechanical, Solid Mechanics, Finite Element Methods, Engineering and Technology

### Academic Titles / Tasks

Professor, Akdeniz University, Faculty of Engineering, Makine Mühendisliği, 2020 - Continues

Associate Professor, Akdeniz University, Faculty of Engineering, Department of Mechanical Engineering, 2018 - 2020

Associate Professor, Pamukkale University, Faculty Of Engineering, Department Of Mechanical Engineering, 2012 - 2018

Assistant Professor, Pamukkale University, Faculty Of Engineering, Department Of Mechanical Engineering, 2010 - 2012

Research Assistant PhD, Pamukkale University, Faculty Of Engineering, Department Of Mechanical Engineering, 2009 - 2010

Research Assistant, Pamukkale University, Faculty Of Engineering, Department Of Mechanical Engineering, 2000 - 2009

## Academic and Administrative Experience

Akdeniz University, Faculty of Engineering, Department of Mechanical Engineering, 2019 - Continues

### Courses

Seminer, Undergraduate, 2019 - 2020, 2018 - 2019  
Sonlu Elemanlar ile Modelleme Teknikleri, Undergraduate, 2019 - 2020, 2018 - 2019  
Kompozit Malzemeler, Undergraduate, 2019 - 2020  
Mukavemet II, Undergraduate, 2019 - 2020, 2018 - 2019  
Bitirme Çalışması, Undergraduate, 2019 - 2020, 2018 - 2019  
Seminer I, Doctorate, 2019 - 2020  
Danışmanlık, Doctorate, 2019 - 2020, 2018 - 2019  
Statik, Undergraduate, 2018 - 2019  
Kalite Güvenliği, Undergraduate, 2019 - 2020  
Mukavemet I, Undergraduate, 2019 - 2020  
Uzmanlık Alan Dersi, Doctorate, 2019 - 2020, 2018 - 2019  
Makine Proje, Undergraduate, 2019 - 2020, 2018 - 2019  
Makina Mühendisliğine Giriş, Undergraduate, 2019 - 2020, 2018 - 2019  
Lisans Tezi II, Undergraduate, 2015 - 2016  
Laboratuvar II, Undergraduate, 2015 - 2016, 2014 - 2015  
Mühendislik Etiği, Undergraduate, 2015 - 2016  
Uzmanlık Alan Dersi, Postgraduate, 2015 - 2016  
Mukavemet II, Undergraduate, 2015 - 2016  
Termoelastisite, Doctorate, 2015 - 2016  
Sektör Analizi, Undergraduate, 2015 - 2016, 2014 - 2015  
Elastisite Teorisi, Doctorate, 2015 - 2016  
Laboratuvar I, Undergraduate, 2015 - 2016  
Mukavemet II, Undergraduate, 2014 - 2015  
Mühendislik Etiği, Undergraduate, 2015 - 2016  
Bilgisayar Destekli Modelleme, Undergraduate, 2015 - 2016  
Mühendislik Mekaniği, Undergraduate, 2015 - 2016  
Elastisite, Postgraduate, 2014 - 2015  
Uzmanlık Alan Dersi, Postgraduate, 2015 - 2016, 2014 - 2015  
Termoelastisite, Postgraduate, 2014 - 2015  
Mukavemet I, Undergraduate, 2014 - 2015  
Elastisite, Postgraduate, 2015 - 2016  
Lisans Tezi II, Undergraduate, 2014 - 2015

### Advising Theses

ALTAN G., Mekanik Alın Birleştirilmiş Kompozit Plakaların Üç Nokta Eğilme Testleri ile Mekanik Davranışlarının İncelenmesi, Postgraduate, F.Başbuğ(Student), 2012

### Jury Memberships

Doctorate, Doktora tez savunma sınavı jüri üyeliği, Pamukkale Üniversitesi, December, 2019  
Administrative Staff Examination, İdari Personel Sınavı jüri üyeliği, Akdeniz Üniversitesi, May, 2019

Doctoral Examination, Doktora yeterlilik sınavı jüri üyeliği, Akdeniz Üniversitesi, April, 2019  
Post Graduate, . Yüksek lisans tez savunma sınavı jüri üyeliği, Akdeniz Üniversitesi, April, 2019  
Doctoral Examination, Doktora yeterlilik sınavı jüri üyeliği, Akdeniz Üniversitesi, January, 2019  
Doctoral Examination, Doktora yeterlilik sınavı jüri üyeliği, Uşak Üniversitesi, August, 2014  
Post Graduate, Yüksek lisans tez savunma sınavı jüri üyeliği, Pamukkale Üniversitesi, December, 2012  
Post Graduate, . Yüksek lisans tez savunma sınavı jüri üyeliği, Pamukkale Üniversitesi, July, 2012

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

- I. **Effect of Blade Gap Ratio on Turbine Performance in Drag-Based Vertical-Axis Wind Turbines**  
ALTAN G., DEDA ALTAN B.  
Processes, vol.12, no.10, 2024 (SCI-Expanded)
- II. **Testing of mechanical butt joints in composite structures**  
ALTAN G.  
MATERIALS TESTING, vol.63, no.9, pp.816-821, 2021 (SCI-Expanded)
- III. **Numerical and experimental analysis of a 3D printed Savonius rotor with built-in extension plate**  
Altan B., KOVAN V., Altan G.  
WIND AND STRUCTURES, vol.27, no.1, pp.1-9, 2018 (SCI-Expanded)
- IV. **Effect of layer thickness and print orientation on strength of 3D printed and adhesively bonded single lap joints**  
KOVAN V., Altan G., TOPAL E. S.  
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.31, no.5, pp.2197-2201, 2017 (SCI-Expanded)
- V. **Investigation of 3D printed Savonius rotor performance**  
Altan B., Altan G., KOVAN V.  
RENEWABLE ENERGY, vol.99, pp.584-591, 2016 (SCI-Expanded)
- VI. **Flexural behavior of 3D printed honeycomb sandwich structures with waste filler material**  
Altan G., KOVAN V.  
MATERIALS TESTING, vol.58, no.10, pp.833-838, 2016 (SCI-Expanded)
- VII. **An investigation on damage loads of mechanical butt joints in composite structures**  
Altan G., Topcu M.  
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, vol.34, no.10, pp.839-853, 2015 (SCI-Expanded)
- VIII. **Fatigue and static performances of butterfly joints under hygrothermal exposure conditions**  
Altan G., Topcu M.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.127, no.5, pp.3374-3381, 2013 (SCI-Expanded)
- IX. **Assessment of the buckling strengths of composite plates impacted with different impact loads and points**  
Altan G.  
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, vol.29, no.23, pp.3455-3462, 2010 (SCI-Expanded)
- X. **Experimental and numerical assessment of the improvement of the load-carrying capacities of butterfly-shaped coupling components in composite structures**  
Altan G., Topcu M.  
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.24, no.6, pp.1245-1254, 2010 (SCI-Expanded)
- XI. **The Effects of the Butterfly Joints on Failure Loads and Fatigue Performance of Composite Structures**  
Altan G., Topcu M., Callioglu H.  
SCIENCE AND ENGINEERING OF COMPOSITE MATERIALS, vol.17, no.3, pp.199-212, 2010 (SCI-Expanded)
- XII. **Elastic-plastic thermal stress analysis of an aluminum composite disc under parabolic thermal load distribution**  
Altan G., Topcu M., Bektas N. B., Altan B.  
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.22, no.12, pp.2318-2327, 2008 (SCI-Expanded)

- XIII. **THERMAL ELASTIC-PLASTIC STRESS ANALYSIS OF AN ALUMINIUM COMPOSITE DISC UNDER LINEARLY DECREASING THERMAL LOADING**  
Topcu M., Altan G., Callioglu H., Altan B.  
ADVANCED COMPOSITES LETTERS, vol.17, no.3, pp.87-96, 2008 (SCI-Expanded)
- XIV. **An experimental investigation on damage loads of butterfly joints in composite structures**  
Topcu M., Altan G., Ergun E.  
ADVANCED COMPOSITES LETTERS, vol.16, no.6, pp.197-204, 2007 (SCI-Expanded)
- XV. **Elastic-plastic stress analysis of thermoplastic composite beams loaded by a single force**  
TOPCU M., CONKUR E., Altan G.  
JOURNAL OF THERMOPLASTIC COMPOSITE MATERIALS, vol.18, no.3, pp.181-193, 2005 (SCI-Expanded)
- XVI. **Stress analysis of curvilinearly orthotropic rotating discs under mechanical and thermal loading**  
CALLIOGLU H., TOPCU M., Altan G.  
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, vol.24, no.8, pp.831-838, 2005 (SCI-Expanded)
- XVII. **Elastic-plastic and residual stress analysis of an aluminum metal-matrix composite disk under internal pressures**  
BEKTAS N., TOPCU M., CALLIOGLU H., Altan G.  
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, vol.24, no.7, pp.753-762, 2005 (SCI-Expanded)

### Articles Published in Other Journals

- I. **INVESTIGATION ON FLEXURAL BEHAVIORS OF I-SHAPED JOINTED COMPOSITE PLATES**  
Altan G.  
ADVANCES IN SCIENCE AND TECHNOLOGY-RESEARCH JOURNAL, vol.12, no.2, pp.65-70, 2018 (ESCI)
- II. **Experimental Investigation on Thermal Conductivity of Building Materials Manufactured from Paper Wastes**  
ALTAN G., DEDA ALTAN B.  
IJRASET : INTERNATIONAL JOURNAL FOR RESEARCH IN APPLIED SCIENCE AND ENGINEERING TECHNOLOGY, vol.6, no.5, pp.33-39, 2018 (Peer-Reviewed Journal)
- III. **Soğuk Şekillendirilmiş Çelik Çubukların Eğilmesi Durumunda Oluşan Artık Gerilmelerin Hesabı**  
Atlıhan G., TOPCU M., CALLIOGLU H., ALTAN G.  
PAMUKKALE ÜNİVERSİTESİ MÜHENDİSLİK BİLİMLERİ DERGİSİ, vol.13, no.1, pp.111-118, 2007 (Peer-Reviewed Journal)
- IV. **Tekil Kuvvetle Yüklenmiş Örgülü Çelik Fiber Takviyeli Termoplastik Kompozit Ankastre Kirişlerde Artık Gerilme Analizi**  
ALTAN G., Atlıhan G., TOPCU M.  
PAMUKKALE ÜNİVERSİTESİ MÜHENDİSLİK BİLİMLERİ DERGİSİ, vol.10, no.1, pp.119-125, 2004 (Peer-Reviewed Journal)
- V. **Elastic-Plastic and Residual Stress Analysis of an Aluminum Disc under Internal Pressure**  
BEKTAS N., ALTAN G., ERGUN E., Demirdal G.  
PAMUKKALE ÜNİVERSİTESİ MÜHENDİSLİK BİLİMLERİ DERGİSİ, vol.10, no.2, pp.201-206, 2004 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Surface roughness effect on the 3D printed butt joints strength**  
KOVAN V., Altan G., TOPAL E. S., ÇAMURLU H. E.  
The 8th International Conference BALTTTRIB'2015, Kaunas, Lithuania, 26 - 27 November 2015, pp.117-121
- II. **Periyodik hücreli yapıların titreşim davranışlarının incelenmesi: nümerik çalışma**  
Atlıhan G., KOVAN V., TOPCU M., ERGUN E., ALTAN G.

4th International Materials Symposium (IMSP'2012), Denizli, Turkey, 10 - 12 October 2012, pp.960-967

**III. Elasto-plastic stress analysis of surface roughness effect on press fits**

KOVAN V., ALTAN G.

6th International Scientific Conference on Tribology, BALTTTRIB 2011, Kaunas, Lithuania, 17 - 19 November 2011, pp.122-126

**IV. Metal Matrisli Ortotropik Bir Diskin Üretimi ve Mekanik Özelliklerinin Tespiti**

ALTAN G., TOPCU M., ERGUN E., CALLIOGLU H.

11th International Materials Symposium, Denizli, Turkey, 19 - 21 April 2006, pp.835-841

## Supported Projects

ALTAN G., TUBITAK Project, Mekanik Alın Birleştirilmiş Kompozit Plakaların Mekanik Davranışlarının Statik Ve Dinamik Olarak İncelenmesi, 2010 - 2013

ALTAN G., TUBITAK Project, Farklı sıcaklık ve nem etkisi altında kompozit yama ile kuvvetlendirilmiş çatlaklı malzemelerin yorulma (çeki-bası, eğilme) ve kırılma mekaniği analizleri, 2006 - 2009

ALTAN G., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Yanmaya karşı dirençli kompozit ısı yalıtım malzemelerinin geliştirilmesi ve üretimi, 2005 - 2008

ALTAN G., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Tekstil artıklarından ısı ve ses yalıtımı için kompozit malzeme üretimi, 2002 - 2004

## Scientific Refereeing

Proceedings of The Institution of Mechanical Engineers Part E-Journal of Process Mechanical Engineering, SCI Journal, April 2020

Journal of Mechanical Science and Technology, SCI Journal, April 2020

Journal of Composite Materials, SCI Journal, March 2020

Journal of Composite Materials, SCI Journal, January 2020

Journal of Composite Materials, SCI Journal, May 2019

Journal of Mechanical Science and Technology, SCI Journal, August 2018

Orthopaedic Surgery, SCI Journal, April 2018

Journal of Mechanical Science and Technology, SCI Journal, January 2018

Journal of the Mechanical Behavior of Biomedical Materials, SCI Journal, May 2017

Journal of the Mechanical Behavior of Biomedical Materials, SCI Journal, January 2017

Journal of the Mechanical Behavior of Biomedical Materials, SCI Journal, August 2016

Proceedings of The Institution of Mechanical Engineers Part L-Journal of Materials-Design and Applications, SCI Journal, September 2015

Composites Part B, SCI Journal, July 2014

Journal of Composite Materials, SCI Journal, May 2014

## Metrics

Publication: 26

Citation (WoS): 98

Citation (Scopus): 114

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H-Index (Scopus): 5