

## Lect. AHMET ATAĞ

### Personal Information

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### Biography

Ahmet ATAĞ, Ph.D., Lecturer & Expert Researcher.

He completed his undergraduate and graduate studies in Mechanical Engineering at Ruhr-University in Bochum, Germany in 1992. After working as a mechanical engineer in various companies for about 22 years at the beginning of the year 2012 he did return to Turkey. He worked as a Specialist Researcher for five years at TÜBİTAK UZAY Research Institute. Later, he worked as the Structural Engineering Manager of TUSAŞ SPACE Department for 2 years and completed his doctorate degree in Gazi University "Industrial Product Design" department in September 2019. Starting from the beginning of 2020, he is still working as a lecturer (PhD) at Gazi University's TUSAŞ KAZAN-Vocational High School.

### Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Endüstri Ürünleri Tasarımı (Dr), Turkey 2014 - 2019

Under Graduate, Ruhr-Universität Bochum, Mühendislik Fakültesi, Makine Mühendisliği, Germany 1987 - 1992

Post Graduate, Ruhr-Universität Bochum, Mühendislik Fakültesi, Makine Mühendisliği, Germany 1987 - 1992

Under Graduate, Fachhochschule Giessen-Friedberg, Mühendislik Fakültesi, Makine Mühendisliği, Germany 1983 - 1987

### Dissertations

Doctorate, Sürtünme karıştırma nokta kaynağında kullanılan pimin omuz profili tasarımı ve birleştirilen magnezyum levhaların mekanik özelliklerinin incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, Endüstri Ürünleri Tasarımı (Dr), 2019

Post Graduate, Bir planet dişli şanzıman simülasyon programına lineer olmayan yatak boşluk ve katlıklarının uyarlanması, Ruhr-Universität Bochum, 1992

### Research Areas

Engineering and Technology

### Academic Titles / Tasks

Lecturer, Gazi University, Tusaş-Kazan Meslek Yüksekokulu, Motorlu Araçlar Ve Ulaştırma Teknolojileri Bölümü, 2020 - Continues

## Professional Experience

Assistant Director of Vocational School, Gazi University, Tusaş - Kazan Meslek Yüksek Okulu, Motorlu Araçlar Ve Ulaştırma Teknolojileri Bölümü, 2020 - 2020

Yükseköğretim Kurulu Üyesi, Gazi University, Tusaş - Kazan Meslek Yüksek Okulu, Motorlu Araçlar Ve Ulaştırma Teknolojileri Bölümü, 2020 - 2020

## Courses

Teknik Resim, Associate Degree, 2020 - 2021

Bigisayar Destekli Çizim-I, Associate Degree, 2020 - 2021

Yalın Üretim, Associate Degree, 2020 - 2021

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Experimental determination and numerical modeling of the stiffness of a fastener**  
ATAK A.  
MATERIALS TESTING, vol.62, no.12, pp.1215-1220, 2020 (Journal Indexed in SCI)
- II. **Impact of pinless stirring tools with different shoulder profile designs on friction stir spot welded joints**  
ATAK A.  
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.34, no.9, pp.3735-3743, 2020 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Design Diversity and Brand Loyalty**  
Atak A.  
Saudi Journal of Business and Management Studies, vol.6, no.3, pp.56-60, 2021 (Refereed Journals of Other Institutions)
- II. **Study of the Effect of Connection Stiffness on Structural Systems and Their Structural Integrity**  
Atak A.  
Saudi Journal of Engineering and Technology, vol.6, no.2, pp.20-31, 2021 (Refereed Journals of Other Institutions)
- III. **Analytical and Numerical Model of Aluminum Alloy Swaging Ring Design to Study the Effect on the Sealing for Piping Systems**  
ATAK A.  
CIVIL ENGINEERING JOURNAL-TEHRAN, vol.7, no.1, pp.107-117, 2021 (Refereed Journals of Other Institutions)
- IV. **Stress Analysis of Friction Stir Spot Welded Magnesium Alloy Sheet under Tensile-Shear Load**  
ATAK A.  
Universal Journal of Mechanical Engineering, vol.7, no.6, pp.348-359, 2019 (Refereed Journals of Other Institutions)
- V. **Designer's Ethical Responsibility and Ethical Design**  
Atak A., Şık A.  
Universal Journal of Mechanical Engineering, vol.7, no.5, pp.255-263, 2019 (Refereed Journals of Other Institutions)
- VI. **Investigation of mechanical properties of friction stir spot welded light metal alloys**

ATAK A., ŞİK A.

Journal of Mechanics Engineering and Automation 2, vol.9, no.2, pp.56-63, 2019 (Refereed Journals of Other Institutions)

**VII. The design of fatigue strenght machine being one of the methods for determination the mechanical properties of the materials used in the industry**

Şık A., Atak A., Yavuz C., Özdemir V.

Journal of Science Part A: Engineering and inovation, Gazi University, vol.5, no.2, pp.79-82, 2018 (Other Refereed National Journals)

**VIII. Thermo-Mechanical modelling of friction stir spot welding and numerical solution with the fnite element method**

ATAK A., ŞİK A., ÖZDEMİR V.

International Journal of Engineering and Applied Sciences (IJEAS), vol.5, no.2, pp.70-75, 2018 (Refereed Journals of Other Institutions)

## Books & Book Chapters

**I. Chapter 44 Investigation of Mechanical Properties and Fatigue of Friction Stir Spot Welded Light Metals**

ATAK A., ŞİK A.

in: Mechanical Fatigue of Metals Experimental and Simulation Perspectives Mechanical Fatigue of Metals, Structural Integrity 7, José A.F.O. CorreiaAbílio M.P. De JesusAntónio Augusto FernandesRui Calçada, Editor, Springer Nature Switzerland AG 2019, Porto, pp.343-349, 2019

## Refereed Congress / Symposium Publications in Proceedings

**I. UZAY ARAÇLARINDA MERKEZİ SİLİNDİR GEOMETRİK OPTİMİZASYONU**

Şahin M., ATAK A.

8. ULUSAL HAVACILIK VE UZAY KONFERANSI, Ankara, Turkey, 9 - 11 September 2020, pp.1-10

**II. Bağlantıların katılık değerlerinin yapılarla olan sistemsel etkisinin incelenmesi**

ATAK A., ŞİK A., Velioğlu S.

Kaynak Teknolojisi XI. Ulusal Kongre ve sergisi, Ankara, Turkey, 15 - 18 November 2019, pp.237-252

**III. Bağlantı Elemanlarının Uydu Birincil ve İkincil Yapılarına Etkisi**

Canbolat U., ATAK A.

TMMOB Makina Mühendisleri Odası X. Ulusal Uçak, Havacılık ve Uzay Mühendisliği Kurultayı 11-12 Ekim 2019, Eskişehir, Turkey, 11 - 12 October 2019, vol.705, pp.19-24

**IV. Satellite Level Acoustic Test Response Evaluation for Optic Sensors Mounted on Anti-Earth Deck Panel**

Bagdat Ü., İzgu O., Çaybaşı H., Aydoğan F., Haktanır O., ATAK A.

2019 9TH INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN SPACE TECHNOLOGIES (RAST), İstanbul, Turkey, 11 - 14 June 2019, pp.1-5

**V. Design and Optimization of Innovative CFRP Central Cylinder for Satellites**

ABAY M. M. , ATAK A., Şahin M., İzgu O.

2019 9TH INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN SPACE TECHNOLOGIES (RAST), İstanbul, Turkey, 11 - 14 June 2019, pp.103-107

**VI. Investigation of Mechanical Properties and Fatigue of Friction Stir Spot Welded Light Metals**

ATAK A., ŞİK A.

19th International Colloquium on Mechanical Fatigue of Metals (ICMFM), Porto, Portugal, 5 - 07 September 2018, vol.7, pp.343-349

**VII. Investigation of mechanical properties of friction stir spot welded light metal alloys**

ATAK A., ŞİK A.

5th International Conference on Welding Technologies and Exhibition (ICWET'18), Sarejevo, Bosnia And Herzegovina, 26 - 28 September 2018, pp.210-219

VIII. **UZAY ARAÇLARI VE UYDULARDA TİTREŞİM TESTLERİ VE TEST SÜREÇLERİ**

Şahin M., ATAK A.

VII. ULUSAL HAVACILIK VE UZAY KONFERANSI UHUK-2018-135 12-14 Eylül 2018, Ondokuz Mayıs Üniversitesi, Samsun, Samsun, Turkey, 12 - 14 September 2018, pp.1-11

IX. **Sürtünme karıştırma nokta kaynağı (SKNK) yöntemiyle otomotiv sektöründe kullanılan Magnezyum alaşımlarının birleştirilmesi [Joining of magnesium alloys with friction stir spot welding (FSSW) method used in automotive sector]**

ATAK A., ŞİK A., ÖZDEMİR V.

9th International Automotive Technologies Congress OTEKON 2018, Bursa, Turkey, 7 - 08 May 2018, pp.1225-1234

X. **Kaynaklı bağlantıların Eurocode 3 (EC3)'e göre yorulma dayanımının hesaplanması**

ATAK A., ŞİK A., Ertürk İ.

4th International Conference on Welding Technologies and Exhibition, Gaziantep, Turkey, 11 - 13 May 2016, pp.772-782

XI. **Çelik yapı kaynaklı bağlantılarının EC3'e göre Tasarım ve analiz yöntemi**

ATAK A., ŞİK A.

Kaynak Teknolojisi IX. Ulusal Kongre ve Sergisi, Ankara, Turkey, 20 - 22 November 2015, vol.22

## Supported Projects

Atak A., TUBITAK Project, TÜBİTAK TEYDEB PROJE NO: 3130423 OTAMATİK, TAŞIYICI KOL SİSTEMİNE SAHİP, TEK TAHRİKLİ, MODÜLER, ARAÇ PARK SİSTEM TASARIM VE PROTOTİP İMALATI, 2013 - 2014

## Patent

Atak A., Shut-off device for conduits having a large cross-section, especially for power plant exhaust and flue gas conduits. German: Absperrvorrichtung für Kanäle mit grossen Querschnitten, insbesondere für Abgas- und Rauchgaskanäle von Kraftwerken, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, Initial Registration, 2021

ATAK A., Bir taşınabilir boru birleştirme aparatında yenilik, Utility patents, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, 2018

ATAK A., Bir Boru Birleştirme Aparatında Yenilik, Utility patents, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, 2018

## Citations

Total Citations (WOS):1

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