

## Asst. Prof. HAMZA ARDA DEVECİ

### Personal Information

**Office Phone:** [+90 446 224 0088](tel:+904462240088) Extension: 43162

**Email:** [hadeveci@erzincan.edu.tr](mailto:hadeveci@erzincan.edu.tr)

**Other Email:** [ardadeveci@gmail.com](mailto:ardadeveci@gmail.com)

**Web:** <https://avesis.ebyu.edu.tr/hadeveci>

**Address:** Erzincan Binali Yıldırım Üniversitesi Mühendislik Fakültesi Yalnızbağ Kampüsü Erzincan/Türkiye

### International Researcher IDs

ORCID: 0000-0001-9926-8768

ScopusID: 57190491155

Yoksis Researcher ID: 107477

### Education Information

Doctorate, Izmir Institute Of Technology, Institute Of Engineering And Natural Sciences, Mechanical Engineering, Turkey  
2012 - 2018

Postgraduate, Izmir Institute Of Technology, Institute Of Engineering And Natural Sciences, Mechanical Engineering,  
Turkey 2009 - 2011

Undergraduate, Dokuz Eylul University, Faculty Of Engineering, Department Of Mechanical Engineering, Turkey 2003 -  
2008

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Optimum Design of Carbon/Epoxy Composite Laminates for Maximum Fatigue Life using Multiaxial  
Prediction Models, Izmir Institute Of Technology, Institute Of Engineering And Natural Sciences, Mechanical Engineering,  
2017

Postgraduate, Optimum design of anti-buckling behaviour of the laminated composites considering puck failure criterion  
by genetic algorithm, Izmir Institute Of Technology, Faculty Of Engineering, Department Of Mechanical Engineering  
(English), 2011

### Research Areas

Mechanical Engineering, Mechanical, Solid Mechanics, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Erzincan Binali Yıldırım University, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği Bölümü,  
2018 - Continues

## Academic and Administrative Experience

Deputy Head of Department, Erzincan Binali Yildirim University, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği Bölümü, 2019 - Continues

## Courses

Analytical Methods in Engineering, Postgraduate, 2021 - 2022  
Mechanics of Composite Materials, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Plates and Panels, Postgraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020  
Statics, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Mesleki Yabancı Dil 2, Undergraduate, 2020 - 2021  
Dynamics, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Bitirme Projesi-I, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Strength of Materials 1, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Makine Ana Tasarım 2, Undergraduate, 2020 - 2021  
Bitirme Tezi, Undergraduate, 2019 - 2020  
Bitirme Tezi, Undergraduate, 2019 - 2020  
İngilizce-XV, Undergraduate, 2019 - 2020  
İngilizce-XV, Undergraduate, 2019 - 2020  
Bitirme Projesi-I, Undergraduate, 2019 - 2020, 2018 - 2019  
Makine Ana Tasarım-II, Undergraduate, 2018 - 2019  
İngilizce-XVI, Undergraduate, 2018 - 2019  
Makine Ana Tasarım 1, Undergraduate, 2019 - 2020  
Bitirme Projesi-II, Undergraduate, 2018 - 2019  
Bitirme Projesi-II, Undergraduate, 2018 - 2019  
İngilizce-XVI, Undergraduate, 2018 - 2019  
Strength of Materials 2, Undergraduate, 2018 - 2019

## Jury Memberships

Post Graduate, Post Graduate, Erzincan Binali Yıldırım Üniversitesi, December, 2021  
Post Graduate, Post Graduate, Erzincan Binali Yıldırım Üniversitesi, February, 2021  
Doctoral Examination, Doctoral Examination, Erzincan Binali Yıldırım Üniversitesi, May, 2019

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

- I. **A modified approach on modeling-design-optimization procedure for cutting of pure titanium using wire electric discharge machining (WEDM)**  
Baytok Y., Aydın L., DEVECİ H. A., GÜLTÜRK E.  
Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, vol.238, no.5, pp.2305-2319, 2024 (SCI-Expanded)
- II. **Fatigue-resistant design of carbon/epoxy composites based on a failure tensor polynomial model by particle swarm optimization-sequential quadratic programming algorithm**  
Deveci H. A., Artem H. S., Güneş M. D., Tanoğlu M.  
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, vol.0, no.0, 2024 (SCI-Expanded)
- III. **Fatigue life prediction and optimization of GFRP composites based on Failure Tensor Polynomial in Fatigue model with exponential fitting approach**

Güneş M. D., İmamoğlu Karabaş N., DEVECİ H. A., Tanoğlu G., Tanoğlu M.

Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, vol.236, no.19, pp.10290-10303, 2022 (SCI-Expanded)

**IV. Single- and Multiobjective Optimizations of Dimensionally Stable Composites Using Genetic Algorithms**

Aydin L., Artem H. S., Deveci H. A.

Mechanics of Composite Materials, vol.57, no.3, pp.321-336, 2021 (SCI-Expanded)

**V. On the estimation and optimization capabilities of the fatigue life prediction models in composite laminates**

Deveci H. A., Artem H. S.

Journal of Reinforced Plastics and Composites, vol.37, no.21, pp.1304-1321, 2018 (SCI-Expanded)

**VI. Optimum design of fatigue-resistant composite laminates using hybrid algorithm**

Deveci H. A., Artem H. S.

Composite Structures, vol.168, pp.178-188, 2017 (SCI-Expanded)

**VII. Buckling optimization of composite laminates using a hybrid algorithm under Puck failure criterion constraint**

Deveci H. A., Aydin L., Seçil Artem H.

Journal of Reinforced Plastics and Composites, vol.35, no.16, pp.1233-1247, 2016 (SCI-Expanded)

## Articles Published in Other Journals

**I. Optimization Of Hybrid Composite Laminates With Various Materials Using GA/GPSA Hybrid Algorithm for Maximum Dimensional Stability**

Geçmez H., Deveci H. A.

Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.13, no.1, pp.107-133, 2024 (Peer-Reviewed Journal)

## Books & Book Chapters

**I. Maximization of Buckling Resistance for Lightweight Vegetable Based Hybrid Laminated Composites Combined with Synthetic Fibers**

Savran M., Aydın L., Deveci H. A., Gültürk E.

in: Vegetable Fiber Composites and their Technological Applications, Mohammad Jawaid, Anish Khan, Editor, Springer Nature, Singapore, pp.81-105, 2021

**II. Stochastic optimization methods**

Erten H. İ., Deveci H. A., Artem H. S.

in: Designing engineering structures using stochastic optimization methods, Levent Aydın, H Seçil Artem, Selda Oterkus, Editor, CRC, New York, Florida, pp.10-23, 2020

## Refereed Congress / Symposium Publications in Proceedings

**I. Dimensional Stability Design of Carbon/Epoxy Composite Laminates Using GA/GPSA Hybrid Algorithm**

Geçmez H., Deveci H. A.

Uluslararası Mühendislik Sempozyumu (IES'20), İzmir, Turkey, 5 - 06 December 2020, pp.246-253

**II. Karbon/Epoksi Kompozit Laminatların Yorulma Ömrü Artırımına Yönelik Optimum Tasarımı**

Deveci H. A., Artem H. S.

International Design and Engineering Symposium, İzmir, Turkey, 10 - 12 October 2019, pp.263-264

**III. Optimization and Characterization of Fatigue Behavior of Glass Fiber Reinforced Polymer Matrix**

## Composites

Güneş M. D., Şen S., Deveci H. A., Tanoğlu G., Tanoğlu M.

IV. International Ege Composite Materials Symposium, İzmir, Turkey, 6 - 08 September 2018, pp.45

### IV. Optimum Design of Carbon/Epoxy Composite Laminates for Maximum Fatigue Life

Deveci H. A., Artem H. S., Güneş M. D., Tanoğlu M.

IV. International Ege Composite Materials Symposium, İzmir, Turkey, 6 - 08 September 2018, pp.47

### V. Optimum Design of Fatigue-Resistant Carbon/Epoxy Composite Laminates

Deveci H. A., Artem H. S.

The 7th Fatigue Design Conference, Paris, France, 28 - 29 November 2017

### VI. On the estimation and optimization capabilities of the fatigue life prediction models in composite laminates

Deveci H. A., Artem S.

3rd International Conference on Mechanics of Composites, Bologna, Italy, 4 - 07 July 2017, pp.92-93

### VII. Optimum Design of Laminated Composites for Maximum Fatigue Life

Deveci H. A., Artem H. S.

10th International Conference on Composite Science and Technology, Lisbon, Portugal, 2 - 04 September 2015

### VIII. Çevrimsel yüklemeye maruz tabakalı kompozitlerin maksimum yorulma ömrü için optimum tasarımı

Deveci H. A., Artem H. S.

TRISToMM - Uluslararası katılımlı 17. Makina Teorisi Sempozyumu, İzmir, Turkey, 14 - 17 June 2015, pp.31-38

### IX. Stacking Sequences Optimization of the Anti-Buckled Laminated Composites considering Various Failure Criteria

Söyleyici M. U., Deveci H. A., Artem H. S., Aydın L.

II. Ulusal Ege Kompozit Malzemeler Sempozyumu, Aydın, Turkey, 7 - 09 November 2013, pp.39-55

### X. BURKULMAYA DİRENÇLİ TABAKALI KOMPOZİTLERİN FARKLI KIRILMA KRİTERLERİYLE FİBER AÇI DİZİLİMİ OPTİMİZASYONU

SÖYLEYİCİ M. U., DEVECİ H. A., ARTEM H. S., AYDIN L.

II. ULUSAL EGE KOMPOZİT MALZEMELER SEMPOZYUMU, Aydın, Turkey, 7 - 09 November 2013, pp.39-55

### XI. Optimum Design for Anti-Buckled Laminated Composites considering Puck Failure Criterion by Genetic Algorithm

Deveci H. A., Aydın L., Artem H. S.

The 4th International Conference on Mathematical and Computational Applications, Manisa, Turkey, 11 - 13 June 2013, pp.372-381

### XII. Weight Optimization of the Laminated Composites as An Aircraft Structure Material using Different Failure Criteria

Deveci H. A., Söyleyici M. U., Aydın L., Artem H. S.

2nd International Symposium on Computing in Science & Engineering, Aydın, Turkey, 1 - 04 June 2011, pp.403-406

## Scientific Refreeing

Journal of Artificial Intelligence and Data Science , Other Indexed Journal, June 2022

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, May 2022

Journal of Artificial Intelligence and Data Science, Other Indexed Journal, August 2021

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, May 2021

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, January 2021

GAZİ ÜNİVERSİTESİ MÜHENDİSLİK MİMARLIK FAKÜLTESİ DERGİSİ, National Scientific Refreed Journal, January 2021

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, Journal Indexed in SCI-E, July 2020

COMPOSITES SCIENCE AND TECHNOLOGY, SCI Journal, March 2020

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, Journal Indexed in SCI-E, April 2019

DOKUZ EYLÜL ÜNİVERSİTESİ MÜHENDİSLİK FAKÜLTESİ FEN VE MÜHENDİSLİK DERGİSİ, National Scientific Refreed Journal, March 2019  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, Journal Indexed in SCI-E, March 2019

## **Metrics**

Publication: 22

Citation (WoS): 19

Citation (Scopus): 58

H-Index (WoS): 2

H-Index (Scopus): 3