

## Assoc. Prof. YAŞAR AYAZ

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Inonu University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği, Turkey 2003 - 2010

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği, Turkey 1998 - 2002

Undergraduate, Gaziantep University, Faculty Of Engineering, İnşaat Mühendisliği, Turkey 1993 - 1998

### Dissertations

Doctorate, Degisken kesitli ve genis mesnetli çubukların geliştirilmiş rijitlik matrisleri için analitik ve deneysel bir yaklaşım, Ataturk University, Fenbilimleri Enstitüsü, İnşaat Mühendisliği, 2010

Postgraduate, Degisken kesitli çubuklardan meydana gelen düzlem çerçevelerin incelenmesi, Ataturk University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği, 2002

### Research Areas

Mechanics of Solid Bodies, Civil Engineering, Mechanical, Engineering and Technology

### Academic Titles / Tasks

Associate Professor, Inonu University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2020 - Continues

Assistant Professor, Inonu University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2018 - 2020

Assistant Professor, Inonu University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2010 - 2018

### Academic and Administrative Experience

Inonu University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2014 - Continues

Inonu University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2014 - Continues

Inonu University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2012 - Continues

Inonu University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2010 - Continues

Inonu University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2010 - 2014

### Advising Theses

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

- I. **Experimental Performance of RC Beams Strengthened with Aluminum Honeycomb Sandwich Composites and CFRP U-Jackets**  
Kantarci M., Maraş M. M., Ayaz Y.  
EXPERIMENTAL TECHNIQUES, 2022 (SCI-Expanded)
- II. **Seismic Assessment of the Historical Sutlu Minaret Mosque**  
MARAŞ M. M., ÖZMEN A., Sayin E., AYAZ Y.  
PERIODICA POLYTECHNICA-CIVIL ENGINEERING, vol.66, no.2, pp.445-459, 2022 (SCI-Expanded)
- III. **Mechanical behavior of butt curved adhesive joints subjected to bending**  
AYAZ Y., ÇİTİL Ş.  
MATERIALS TESTING, vol.63, no.7, pp.639-644, 2021 (SCI-Expanded)
- IV. **Predicting the effect of adherend dimensions on the strength of adhesively bonded joints using M5P and M5 classifiers**  
Ayaz Y.  
Journal Of The Brazilian Society Of Mechanical Sciences And Engineering, vol.42, no.9, pp.465, 2020 (SCI-Expanded)
- V. **Prediction of compressive strength and ultrasonic pulse velocity of admixtured concrete using tree model M5P**  
Kocamaz A. F., Ayaz Y., Karakoç M. B., Türkmen İ., Demirboga R.  
STRUCTURAL CONCRETE, 2020 (SCI-Expanded)
- VI. **Effect of slope in S-type adhesive bonding under axial loading**  
AYAZ Y.  
WELDING IN THE WORLD, vol.63, no.5, pp.1443-1448, 2019 (SCI-Expanded)
- VII. **Mechanical behaviour of adhesively repaired pipes subject to internal pressure**  
Citil S., AYAZ Y., Temiz Ş., Aydin M. D.  
INTERNATIONAL JOURNAL OF ADHESION AND ADHESIVES, vol.75, pp.88-95, 2017 (SCI-Expanded)
- VIII. **Stress analysis of adhesively bonded double strap joints with or without intermediate part subjected to tensile loading**  
Citila S., AYAZ Y., Temiz Ş.  
JOURNAL OF ADHESION, vol.93, no.5, pp.343-356, 2017 (SCI-Expanded)
- IX. **Repair of small damages in steel pipes with composite patches**  
AYAZ Y., Citil S., Sahan M. F.  
MATERIALWISSENSCHAFT UND WERKSTOFFTECHNIK, vol.47, pp.503-511, 2016 (SCI-Expanded)
- X. **Modeling of compressive strength and UPV of high-volume mineral-admixtured concrete using rule-based M5 rule and tree model M5P classifiers**  
AYAZ Y., KOCAMAZ A. F., KARAKOÇ M. B.  
CONSTRUCTION AND BUILDING MATERIALS, vol.94, pp.235-240, 2015 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Polipropilen Lif Katkılı Kerpiç Tuğlaların Fiziksel ve Mekanik Özelliklerinin İncelenmesi**  
BERKGİL M., AYAZ Y.  
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.13, no.1, pp.105-114, 2020 (Peer-Reviewed Journal)
- II. **Reinforced Concrete Beam Strengthened with Composite Sandwich**  
KOÇ E., AYAZ Y.

- International Journal of Advances in Mechanical and Civil Engineering (IJAMCE), vol.6, no.5, pp.26-29, 2019 (Peer-Reviewed Journal)
- III. **An Analytical And Experimental Approach For Improved Stiffness Matrix Of Bars With Shear And Wide Support Effects**  
AYAZ Y., BUDAK A.  
Adiyaman Üniversitesi Mühendislik Bilimleri Dergisi, vol.6, no.10, pp.250-264, 2019 (Peer-Reviewed Journal)
- IV. **Prediction of The Effect of The Material and Adhesive Thickness on Tensile Capacity of T-Joints**  
AYAZ Y.  
International Journal of Mechanical and Production Engineering (IJMPE), vol.6, no.12, pp.40-42, 2018 (Peer-Reviewed Journal)
- V. **Yüksek basınç altındaki borularda küçük hasarların yapıştırma bağlantıları ile tamiri**  
AYAZ Y.  
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, vol.9, no.1, pp.337-349, 2018 (Peer-Reviewed Journal)
- VI. **Beam Strengthening Using Honeycomb Plates**  
AYAZ Y., BERKTAŞ B., KOÇ E.  
International Journal of Mechanical and Production Engineering (IJMPE), vol.5, no.12, pp.100-102, 2017 (Peer-Reviewed Journal)
- VII. **ÇİFT TAKVİYELİ YAMALARI GÖMÜLÜ YAPIŞTIRMA BAĞLANTILARININ EĞİLME ALTINDA ANALİZİ**  
AYAZ Y., TEMİZ Ş.  
Erzincan University Journal of Science and Technology, vol.5, no.2, pp.165-172, 2012 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **MALATYA YÖRESİNE AİT KİLLİ TOPRAK İLE LİF KATKILI PIŞMEMİŞ TUĞLANIN MEKANİK ÖZELLİKLERİNİN ARAŞTIRILMASI**  
AYAZ Y., BERKGİL M.  
III. INTERNATIONAL ZEUGMA CONGRESS ON SCIENTIFIC RESEARCHES Gaziantep, Gaziantep, Turkey, 22 - 24 November 2019, pp.331-338
- II. **Comparing Fracture Theories in Adhesively Bonding Joints**  
AYAZ Y., Arı A.  
8th International Conference on Advanced Technologies (ICAT'xx19) Bosna, 26 - 30 August 2019
- III. **REINFORCED CONCRETE BEAM STRENGTHENED WITH COMPOSITE SANDWICH**  
KOÇ E., AYAZ Y.  
441st International Conference on Science, Engineering Technology - ICSET 2019 Dubai, Dubai, United Arab Emirates, 26 - 27 June 2019
- IV. **Examination of Mechanical Behavior of Butt Curved Adhesive Joints Subjected to Bending**  
AYAZ Y., ÇİTİL Ş.  
12th European Adhesion Conference and 4th Luso-Brazilian Conference on Adhesion and Adhesives, Lizbon, 5 - 07 September 2018
- V. **Examination of Mechanical Behavior of Butt Curved Adhesive Joints Subjected To Bending**  
AYAZ Y., ÇİTİL Ş.  
EURADH/CLBA 2018, Lizbon, Portugal, 5 - 07 September 2018, pp.1
- VI. **BEAM STRENGTHENING USING HONEYCOMB PLATES**  
AYAZ Y., BERKTAŞ B., KOÇ E.  
International Conference on Recent Innovations in Engineering and Technology (ICRIET) Rusya, Saint Peter, Guernsey And Alderney, 8 - 09 October 2017, pp.19-22
- VII. **PREDICTION OF THE EFFECT OF THE MATERIAL AND ADHESIVE THICKNESS ON TENSILE CAPACITY OF T-JOINTS**  
AYAZ Y.

International Conference on Recent Innovations in Engineering and Technology (ICRIET) Montreal, Canada, Montreal, Canada, 29 - 30 August 2017

- VIII. **Değişken Kesitli Elemanlar için Rijitlik Katsayılarının Ağaç Modeli M5P Algoritması ile Elde Edilmesi**  
AYAZ Y.  
International Conference on Artificial Intelligence and Data Processing (IDAP) 2016, Malatya, Turkey, 17 - 18 September 2016, pp.574-579
- IX. **Değişken Kesitli Elemanlar İçin Rijitlik Katsayılarının Ağaç Modeli M5palgoritması İle Elde Edilmesi**  
AYAZ Y.  
International Conference on Artificial Intelligence and Data Processing (IDAP) 2016, Malatya, Turkey, 17 - 18 September 2016, pp.574-579
- X. **Stress Analyses of S Type Adhesive Bonding Under Axial Loading**  
AYAZ Y.  
10th International Conference on Advanced Computational Engineering and Experimenting (Ace-X 2016)  
Hırvatistan, Split, Croatia, 3 - 06 July 2016
- XI. **REPAIR OF SMALL DAMAGES IN STEEL PIPES WITH COMPOSITE PATCHES**  
AYAZ Y., ÇİTİL Ş., ŞAHAN M. F.  
9th International Conference on Advanced Computational Engineering and Experimenting (ACE-X2015) Germany, 29 June - 02 July 2015
- XII. **Mechanical Properties of Composite Patch Bonding Joint in Repair of the Damaged Pipes Subjected to Inner Pressure**  
ÇİTİL Ş., AYAZ Y., ŞAHAN M. F.  
9th International Conference on Advanced Computational Engineering and Experimenting (ACE-X2015) Germany, Munich, Germany, 29 June - 02 July 2015, pp.155
- XIII. **Modeling of compressive strength and UPV of high volume mineral admixtured concrete with rule based M5 rule and tree model M5P classifiers**  
AYAZ Y., KOCAMAZ A. F., KARAKOÇ M. B.  
8th International Conference On Advanced Computational Engineering And Experiment, 30 June - 03 July 2014
- XIV. **Repair Of Small Damages In Pipes With Adhesive Joints**  
AYAZ Y., ÇİTİL Ş., TEMİZ Ş.  
8th International Conference On Advanced Computational Engineering And Experiment(ACEX 2014) Paris, Paris, France, 30 June - 03 July 2014
- XV. **Modelling Of Compressive Strength And Upv Of High-Volume Mineral-Admixtured Concrete With Rule-Based M5 Rule And Tree Model M5p Classifiers**  
AYAZ Y., KOCAMAZ A. F., KARAKOÇ M. B.  
8th International Conference On Advanced Computational Engineering And Experiment(ACEX 2014) Paris, Paris, France, 30 June - 03 July 2014
- XVI. **Modeling of compressive strength and UPV of high-volume mineral-admixtured concrete with rule-based M5 rule and tree model M5P classifiers**  
AYAZ Y., KOCAMAZ A. F., KARAKOÇ M. B.  
8th International Conference On Advanced Computational Engineering And Experiment, Paris, France, 30 June - 03 July 2014, pp.57-58
- XVII. **Repair Of Small Damages In Pipes With Adhesive Joints**  
AYAZ Y., ÇİTİL Ş., TEMİZ Ş.  
8th International Conference On Advanced Computational Engineering And Experiment(ACEX 2014), Paris, France, 30 June - 03 July 2014
- XVIII. **Modeling of compressive strength and UPV of high-volume mineral-admixtured concrete with rule-based M5 rule and tree model M5P classifiers**  
AYAZ Y., KOCAMAZ A. F., KARAKOÇ M. B.  
8th International Conference On Advanced Computational Engineering And Experiment, Paris, France, 30 June - 03 July 2014, pp.57-58
- XIX. **Investigating Mechanical Properties Of Patch- Adhesive Connections In Repair Of Damaged Pipes**

### **Subjected To Internal Pressure**

Çitil Ş., AYZAZ Y., TEMİZ Ş.

8th International Conference On Advanced Computational Engineering And Experiment(ACEX 2014), Paris, France, 30 June - 03 July 2014

**XX. Investigating Mechanical Properties Of Patch- Adhesive Connections In Repair Of Damaged Pipes**

### **Subjected To Internal Pressure**

Çitil Ş., AYZAZ Y., TEMİZ Ş.

8th International Conference On Advanced Computational Engineering And Experiment(ACEX 2014), Paris, France, 30 June - 03 July 2014

**XXI. Stress analysis in double-strap adhesive joints with an embedded patch and having an intermediate part under axial loading**

ÇİTİL Ş., AYZAZ Y., TEMİZ Ş.

2'nd International Conference on Adhesive Bonding, Porto, Portugal, 4 - 05 July 2013

**XXII. Stress analysis in double-strap adhesive joints with an embedded patch and having an intermediate part under axial loading**

Çitil Ş., AYZAZ Y., TEMİZ Ş.

2'nd International Conference on Adhesive Bonding, Porto, Portugal, 5 - 04 July 2013

**XXIII. Application Of Embedded Patch In Double-Strap Adhesive Joint Under Bending**

AYAZ Y., TEMİZ Ş.

Word Research & Innovation Convention on Engineering & Technology, Selangor, Malaysia, 3 - 05 December 2012, pp.388-398

**XXIV. Application Of Embedded Patch In Double-Strap Adhesive Joint Under Bending**

AYAZ Y., TEMİZ Ş.

World Research Innovation Convention on Engineering Technology 2012, Selangor, Malaysia, 3-5 December 2012, Selangor, Malaysia, 1 - 02 December 2012

## **Supported Projects**

AYAZ Y., Project Supported by Higher Education Institutions, Bitkisel esaslı liflerin balistik zırh yapımında kullanımı, 2019 - 2021

AYAZ Y., KÖLÜK M., Project Supported by Higher Education Institutions, Tabakalı Kompozit Malzemelerin Balistik Zırh Özelliklerinin Geliştirilmesi, 2016 - 2020

AYAZ Y., Project Supported by Higher Education Institutions, Epoksi esaslı onarım harçlarıyla güçlendirme, 2016 - 2020

AYAZ Y., Project Supported by Higher Education Institutions, Eğrisel yapııştırıcı bağlantılarının mekanik özelliklerinin incelenmesi, 2018 - 2019

TEMİZ Ş., AYZAZ Y., KORKMAZ E. E., Project Supported by Higher Education Institutions, Malzemelerin Mekanik Özelliklerinin Belirlenmesi, 2017 - 2019

AYAZ Y., KOÇ E., Project Supported by Higher Education Institutions, Betonarme kirişlerin cam takviyeli polimer kaplı alüminyum bal peteği(honeycomb) kompozitlerle güçlendirilmesi, 2017 - 2019

AYAZ Y., BERKTAŞ B., Project Supported by Higher Education Institutions, BETONARME KİRİŞLERİN ALÜMİNYUM BAL PETEĞİ KOMPOZİT PANELLER İLE GÜÇLENDİRİLMESİ, 2017 - 2019

AYAZ Y., ÇİÇEK Ö. F., Project Supported by Higher Education Institutions, ARAMİD ELYAF VE CAM ELYAF İLE OLUŞTURULAN KOMPOZİT BORULARIN İÇ BASINÇ ALTINDAKİ HASAR GERİLME DAVRANIŞI, 2016 - 2019

TEMİZ Ş., AYZAZ Y., BAHÇE H. T., KORKMAZ E. E., Project Supported by Higher Education Institutions, Kabuklu Meyve Çekirdeklerinin Kompozit Malzemelere Uygulanması, Sisteminin Modellenmesi ve Analizi, 2017 - 2018

## **Metrics**

Publication: 43

Citation (WoS): 77

Citation (Scopus): 40

H-Index (WoS): 4

H-Index (Scopus): 4