

## Assoc. Prof. İSMAİL YASİN SÜLÜ

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: ABH-1342-2020

ScopusID: 55383614000

Yoksis Researcher ID: 58446

### Education Information

Post Doctorate, Lehigh University, Engineering Faculty, Mechanical Engineering And Mechanics, United States Of America  
2016 - 2017

Doctorate, Inonu University, Fen Bilimleri, Makine Mühendisliği, Turkey 2010 - 2014

Postgraduate, Cukurova University, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği, Turkey 2007 - 2010

Undergraduate, Inonu University, Mühendislik Fakültesi, Makina Mühendisliği, Turkey 2002 - 2006

### Foreign Languages

English, C1 Advanced

German, B1 Intermediate

### Dissertations

Doctorate, İÇ BASINCA MARUZ TABAKALI KOMPOZİT BORULARIN FARKLI BİRLEŞTİRME YÖNTEMLERİ İLE YAPIŞTIRILMASI VE GERİLME ANALİZİ, Inonu University, Fen Bilimleri Enstitüsü, Makine Mühendisliği, 2014

Postgraduate, MESH SENSITIVITY STUDIES FOR MIXED-MODE TWO DIMENSIONAL FRACTURE PROBLEMS USING DISPLACEMENT CORRELATION TECHNIQUE , Cukurova University, Fen Bilimleri Enstitüsü , Makine Mühendisliği, 2010

### Research Areas

Mechanical Engineering, Mechanical, Solid Mechanics, Fracture Mechanics, Finite Element Methods, Mechanical Testing, Metallurgical and Materials Engineering, Material science and engineering, Composites, Engineering and Technology

### Academic Titles / Tasks

Associate Professor, Inonu University, Mühendislik Fakültesi, Makine Mühendisliği, 2019 - Continues

Assistant Professor, Inonu University, Mühendislik Fakültesi, Makine Mühendisliği, 2018 - 2019

Assistant Professor, Inonu University, Mühendislik Fakültesi, Makine Mühendisliği, 2015 - 2018

Assistant Professor, Lehigh University, Engineering Faculty, Department Of Mechanical Engineering And Mechanics ,  
2016 - 2017

Research Assistant, Inonu University, Mühendislik Fakültesi, Makine Mühendisliği, 2009 - 2015

## Courses

DİNAMİK, Undergraduate, 2018-2019  
BİLGİSAYAR DESTEKLİ TEKNİK ÇİZİM, Undergraduate, 2018-2019  
İLERİ MUKAVEMET, Undergraduate Double Major, 2018-2019  
MAKİNE MÜHENDİSLİĞİ LABORATUVARI-I, Undergraduate, 2018-2019  
KIRILMA MEKANİĞİ, Undergraduate, 2018-2019  
MAKİNE TASARIMI-I, Undergraduate, 2018-2019  
MAKİNE TASARIMI-II, Undergraduate, 2017-2018  
DİNAMİK, Undergraduate, 2017-2018  
BİLGİSAYAR DESTEKLİ TEKNİK ÇİZİM, Undergraduate, 2017-2018  
MAKİNE MÜHENDİSLİĞİ LABORATUVARI-I, Undergraduate, 2017-2018  
MALZEME-II, Undergraduate, 2017-2018  
TEKNİK RESİM, Undergraduate, 2017-2018  
ELASTİSİTE TEORİSİ-I, Undergraduate Double Major, 2017-2018  
STATİK, Undergraduate, 2017-2018  
MAKİNE TASARIMI-I, Undergraduate, 2017-2018  
SONLU ELEMANLAR TEKNİĞİ, Undergraduate Double Major, 2017-2018  
MAKİNE MÜHENDİSLİĞİ LABORATUVARI-II, Undergraduate, 2017-2018  
STATİK, Undergraduate, 2015-2016  
BİLGİSAYAR DESTEKLİ TEKNİK ÇİZİM, Undergraduate, 2015-2016  
TEKNİK RESİM, Undergraduate, 2015-2016  
MAKİNE TASARIMI-II, Undergraduate, 2015-2016  
MAKİNE MÜHENDİSLİĞİ LABORATUVARI-I, Undergraduate, 2015-2016  
MALZEMELERİN MEKANİK DAVRANIŞI, Undergraduate, 2015-2016  
MAKİNE MÜHENDİSLİĞİ LABORATUVARI-II, Undergraduate, 2015-2016  
MAKİNE TASARIMI-I, Undergraduate, 2015-2016  
DİNAMİK, Undergraduate, 2015-2016

## Advising Theses

Sülü İ. Y., FARKLI GEOMETRİLERE SAHİP HİBRİT UÇAK KANAT KÖK KABURGA YAPISI TASARIMI VE ANALİZİ,  
Postgraduate, T.BATTAL(Student), 2024  
Sülü İ. Y., AL7075 TAKVİYELİ TABAKALI HİBRİT KOMPOZİT PLAKANIN MEKANİK DAVRANIŞLARININ İNCELENMESİ,  
Postgraduate, B.TEPEHAN(Student), 2023  
Sülü İ. Y., NANOPARTİKÜL TAKVİYELİ DENTAL DOLGU MALZEMELERİNİN MEKANİK ÖZELLİKLERİNİN İNCELENMESİ,  
Postgraduate, K.DOĞAN(Student), 2023  
Sülü İ. Y., Sıcak su kazanlarında kullanılan transmisyon millerinin iyileştirilmesi, Postgraduate, A.ER(Student), 2020

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

1. **Mechanical analysis of composite plates adhesively joined with different single-lap techniques under bending loading**

Sülü İ. Y.

MATERIALPRUEFUNG/MATERIALS TESTING, vol.65, no.12, pp.1890-1905, 2023 (SCI-Expanded)

- II. **Numerical study of composite plates jointed adhesively with interspaced and interspaced double-lap joint subject to tensile load**  
SÜLÜ İ. Y.  
MATERIALS TESTING, vol.64, no.9, pp.1340-1355, 2022 (SCI-Expanded)
- III. **Mechanical behavior of composite parts joined through different processes**  
SÜLÜ İ. Y., Temiz S.  
MATERIALS TESTING, vol.63, no.5, pp.411-419, 2021 (SCI-Expanded)
- IV. **Mechanical behavior of composite pipes joined with non-embedded and embedded adhesive layers**  
SÜLÜ İ. Y., Temiz S.  
MATERIALS TESTING, vol.62, no.12, pp.1228-1234, 2020 (SCI-Expanded)
- V. **Mechanical behavior of pressurized composite pipes made of various materials**  
Sülü İ. Y., Temiz Ş.  
MATERIALS TESTING, vol.62, no.4, pp.389-394, 2020 (SCI-Expanded)
- VI. **Mechanical characterization of composite pipe systems joined using different radii pipes subject to internal pressure**  
Sülü İ. Y., Temiz Ş.  
Mechanics Based Design of Structures and Machines, 2020 (SCI-Expanded)
- VII. **Failure analysis of an adhesively joined composite pipe system under internal pressure**  
SÜLÜ İ. Y., Temiz Ş.  
MATERIALS TESTING, vol.60, no.10, pp.997-1003, 2018 (SCI-Expanded)
- VIII. **Mechanical behavior of mode-I crack propagation between composite adhesive joints**  
SÜLÜ İ. Y.  
MATERIALS TESTING, vol.60, no.4, pp.407-412, 2018 (SCI-Expanded)
- IX. **Mechanical behavior of composite parts adhesively jointed with the insert double-lap joint under tensile load**  
Sülü İ. Y.  
WELDING IN THE WORLD, vol.62, no.2, pp.403-413, 2018 (SCI-Expanded)
- X. **Failure and stress analysis of internal pressurized composite pipes joined with sleeves**  
Sülü İ. Y., Temiz Ş.  
JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY, vol.32, no.8, pp.816-832, 2018 (SCI-Expanded)
- XI. **Mechanical behavior of single-lap and double-lap adhesive jointed composite parts**  
SÜLÜ İ. Y.  
MATERIALS TESTING, vol.59, pp.1019-1026, 2017 (SCI-Expanded)
- XII. **Mechanical testing and analysis of composite parts adhesively jointed under tensile load**  
SÜLÜ İ. Y.  
MATERIALS TESTING, vol.59, no.5, pp.459-465, 2017 (SCI-Expanded)
- XIII. **Mechanical behavior of internal pressurized composite pipes jointed with embedded tubular sleeves**  
SÜLÜ İ. Y.  
MATERIALS TESTING, vol.59, no.3, pp.272-277, 2017 (SCI-Expanded)
- XIV. **Experimental failure testing and repair of internal pressurized composite pipes using different fracture models**  
SÜLÜ İ. Y., Sahinaslan A.  
MATERIALS TESTING, vol.58, no.9, pp.788-793, 2016 (SCI-Expanded)
- XV. **Yielding of two-layer curved bars under pure bending**  
ARSLAN E., SÜLÜ İ. Y.  
ZAMM-ZEITSCHRIFT FÜR ANGEWANDTE MATHEMATIK UND MECHANIK, vol.94, no.9, pp.713-720, 2014 (SCI-Expanded)
- XVI. **Sensitivities of Two-Dimensional Fracture Problems to the Near-tip Mesh Parameters**  
SÜLÜ İ. Y., Ayhan A. O.

## Articles Published in Other Journals

- I. **Structural Analysis of Composite Aircraft Wing Ribs Designed with Elliptical Cavities**  
AKDOĞAN T. B., SÜLÜ İ. Y.  
Bayburt Üniversitesi, vol.6, no.2, pp.191-207, 2023 (Peer-Reviewed Journal)
- II. **Behavior of Composite Parts Adhesively Joined With Single Lap Joint and Intermediated Material Under Tensile Load**  
SÜLÜ İ. Y.  
International Journal of Engineering and Applied Sciences, vol.15, no.3, pp.95-109, 2023 (Peer-Reviewed Journal)
- III. **Mechanical Analysis of a Layered Hybrid Composite Plate Created for Helmet Structures**  
TEPEHAN B., SÜLÜ İ. Y.  
Bayburt Üniversitesi Fen Bilimleri Dergisi, vol.5, no.1, pp.69-80, 2022 (Peer-Reviewed Journal)
- IV. **Mechanical Behavior of Composite Filled Teeth Under Compression Load**  
DOĞAN K., SÜLÜ İ. Y.  
Osmaniye Korkut Ata Üniversitesi Fen Bilimleri Enstitüsü Dergisi (Online), vol.5, no.3, pp.1468-1479, 2022 (Peer-Reviewed Journal)
- V. **Non-linear analysis of composite parts jointed with embedded adhesive under tensile load**  
SÜLÜ İ. Y.  
Journal of the Institute of Science and Technology, vol.10, no.1, pp.465-476, 2020 (Peer-Reviewed Journal)
- VI. **Çekme Yüğü Altında Gömülü Tek Tesirli Yama ile Yapıştırılarak Birleştirilmiş Kompozit Parçaların Gerilme Analizi**  
SÜLÜ İ. Y.  
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.7, no.8, pp.284-295, 2018 (Peer-Reviewed Journal)
- VII. **Stress analysis of multi-layered hybrid composite pipes subjected to internal pressure**  
SÜLÜ İ. Y.  
International Journal Of Engineering Applied Sciences, vol.8, no.4, pp.87-98, 2016 (Peer-Reviewed Journal)
- VIII. **Layer Effects of Multi-Layered Face to Face Adhesively Bonded Composite Pipes Subjected to Internal Pressure**  
Sülü İ. Y., Temiz Ş., Aydın M. D.  
Academic Journal of Science, vol.4, no.3, pp.195-202, 2015 (Peer-Reviewed Journal)
- IX. **Stress Analyses of Multi-Layered Composite Pipes Subjected to Internal Pressure**  
SÜLÜ İ. Y., TEMİZ Ş.  
Academic Journal of Science, vol.4, no.3, pp.187-193, 2015 (Peer-Reviewed Journal)
- X. **BEHAVIOUR OF BI-ADHESIVE IN DOUBLE-STRAP JOINT WITH EMBEDDED PATCH SUBJECTED TO BENDING**  
TEMİZ Ş., ADİN H., SÜLÜ İ. Y.  
JOURNAL OF THEORETICAL AND APPLIED MECHANICS-BULGARIA, vol.45, no.3, pp.83-96, 2015 (ESCI)
- XI. **MESH SENSITIVITY STUDIES FOR MIXED-MODE TWO DIMENSIONAL FRACTURE PROBLEMS USING DISPLACEMENT CORRELATION TECHNIQUE**  
SÜLÜ İ. Y., AYHAN A. O.  
Ç.Ü Fen ve Mühendislik Bilimleri Dergisi, vol.27, no.3, pp.94-103, 2012 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **SLOT BOŞLUKLARA SAHİP UÇAK KANAT KABURGALARININ YAPISAL ANALİZİ**  
AKDOĞAN T. B., SÜLÜ İ. Y.  
EGE 10TH INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, İzmir, Turkey, 22 - 24 December 2023, vol.1,

pp.732-746

- II. **MECHANICAL ANALYSIS OF COMPOSITE SHEETS JOINTED USING NON EMBEDDED DOUBLE STRAP LAPS WITH INTERSPACED UNDER TENSILE LOAD**  
SÜLÜ İ. Y.  
3. International Dicle Scientific Research And Innovation Congress, Diyarbakır, Turkey, 26 November 2022, vol.2, pp.1558-1573
- III. **Eğme Yüğü Altında Gömülü Olarak Tek Yama İle Birleştirilmiş Kompozit Parçaların Mekanik Davranışı**  
SÜLÜ İ. Y.  
2nd International Conference on Engineering and Applied Natural Sciences, Konya, Turkey, 15 October 2022, pp.305-314
- IV. **Basma Yüğü Altında Amalgam Restorasyonlu Diş İle Sağlıklı Dişlerde Oluşan Gerilmelerin Karşılaştırılması**  
DOĞAN K., SÜLÜ İ. Y.  
TOKYO SUMMIT 4th International Conference on Innovative Studies of Contemporary Sciences, Tokyo, Japan, 29 July 2021, pp.436-444
- V. **Hafifletilmiş ve dayanımı arttırılmış katmanlı kompozit miğfer tasarımı için tabaka dizilimleri analizi**  
TEPEHAN B., SÜLÜ İ. Y.  
TOKYO SUMMIT 4th International Conference on Innovative Studies of Contemporary Sciences, Tokyo, Japan, 29 July 2021, pp.414-427
- VI. **Mechanical Behavior of Carbon Fiber Pipes Jointed with Double Adhesive Tubular Joint Subject to Internal Pressure**  
Sülü İ. Y., Temiz Ş.  
International Euroasia Congress on Scientific Researches and Recent Trends-VII, Baku, Azerbaijan, 6 - 09 December 2020, vol.1, pp.271-281
- VII. **Characterization of Internal Pressurized Carbon Fiber Pipes Jointed with Non-Embedded Adhesive Sleeves Tubular Joint**  
Sülü İ. Y., Temiz Ş.  
MAS 13th INTERNATIONAL EUROPEAN CONFERENCE ON MATHEMATICS, ENGINEERING, NATURAL MEDICAL SCIENCES, Faryab, Afghanistan, 23 - 25 October 2020
- VIII. **Stress analysis of composite parts adhesively jointed with the embedded adhesive and single-strap patch joint under tensile load**  
SÜLÜ İ. Y.  
8 th International Advanced Technologies Symposium (IATS'17), Elazığ, Turkey, 19 - 22 October 2017, pp.273-282
- IX. **ÇİFT TESİRLİ YAPIŞTIRICI TABAKA İLE BİRLEŞTİRİLMİŞ KOMPOZİT PARÇALARIN GERİLME ANALİZİ**  
SÜLÜ İ. Y.  
20. ULUSAL MEKANİK KONGRESİ, Bursa, Turkey, 5 - 09 September 2017, pp.25-38
- X. **Çift tesirli yapıştırıcı tabaka ile birleştirilmiş kompozit parçaların gerilme analizi**  
Sülü İ. Y.  
20. ULUSAL MEKANİK KONGRESİ, Bursa, Turkey, 5 - 09 September 2017, pp.25-38
- XI. **Burst Failure and Stress Analyses of Multi-Layered Composite Pipes Jointed with Tubular Single-Lap Joint Subject to Internal Pressure**  
SÜLÜ İ. Y., TEMİZ Ş.  
International Engineering, Science and Education Conference, Diyarbakır, Turkey, 1 - 03 December 2016, pp.1220-1230
- XII. **Numerical analyses of composite pipes jointed with different orientation angles using patches subject to internal pressure**  
SÜLÜ İ. Y., Temiz Ş.  
International Engineering, Science and Education Conference, Diyarbakır, Turkey, 1 - 03 December 2016, pp.1208-1219
- XIII. **Layer effects of multi-layered composite pipes adhesively bonded to face to face subject to internal**

## **pressure**

SÜLÜ İ. Y., TEMİZ Ş., AYDIN M. D.

International Journal of Arts and Sciences, Roma, 19 - 22 October 2015, pp.195-202

### **XIV. Stress Analyses of Multi-Layered Composite Pipes Subjected to Internal Pressure**

SÜLÜ İ. Y., TEMİZ Ş.

International Journal of Arts and Sciences, Roma, Italy, 19 - 22 October 2015, pp.187-193

### **XV. Elastic plastic states of two layer curved bar under pure bending**

Sülü İ. Y., Arslan E.

Gamm Appl. Math. Mech.(83rd Annual Meeting of the International Association of Applied Mathematics and Mechanics (GAMM)), Darmstadt, Germany, 26 - 30 March 2012, vol.12, pp.229-230

### **XVI. Basit Eğilme Altında Eğri Eksenli İki Katmanlı Kompozit Kirişin Akması**

ARSLAN E., SÜLÜ İ. Y.

XVII. Ulusal Mekanik Kongresi, Elazığ, Turkey, 5 - 09 September 2011, pp.126-132

### **XVII. Mesh Sensitivity Studies for Two-Dimensional Mixed-Mode Fracture Problems Using Displacement Correlation Technique**

SÜLÜ İ. Y., AYHAN A. O.

13 th International Materials Symposium (IMSP'2010), Denizli, Turkey, 13 - 15 October 2010

## **Supported Projects**

SÜLÜ İ. Y., DOĞAN K., Project Supported by Higher Education Institutions, DENTAL UYGULAMALARDA KULLANILAN DOLGU MALZEMELERİNİN MEKANİK ÖZELLİKLERİNİN İYİLEŞTİRİLMESİ, 2021 - 2023

SÜLÜ İ. Y., TEPEHAN B., Project Supported by Higher Education Institutions, Hafifletilmiş ve Dayanımı Arttırılmış Katmanlı Kompozit Miğfer için Tabaka Tasarımı, 2021 - 2023

Sülü İ. Y., TUBITAK Project, Göçük Altı Görüntüleme Cihazı, 2021 - 2021

SÜLÜ İ. Y., TEMİZ Ş., Project Supported by Higher Education Institutions, Kompozit Boruların Gömülü ve Gömüsüz Yapıştırıcı Tabaka ile Birleştirilmesi ve Mekanik Davranışlarının İncelenmesi, 2018 - 2020

Sülü İ. Y., Project Supported by Higher Education Institutions, Yapısal ve akışkanlar mekaniği ve ısı transferi uygulamalarının sayısal çözümlerinin ve analizlerinin yapılması, 2013 - 2016

TUBITAK Project, Hibrit kompozit shaft üretimi ve tasarım parametreleri üzerine çalışma, 2010 - 2012

TUBITAK Project, Kırılma ve çatlak ilerleme analiz sistemi(Fcpas) Aşama 1, 2008 - 2011

## **Scientific Refereeing**

Adıyaman Üniversitesi Mühendislik Bilimleri Dergisi, National Scientific Refreed Journal, November 2023

STRUCTURAL ENGINEERING AND MECHANICS, SCI Journal, November 2023

JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, February 2022

Adıyaman Üniversitesi Mühendislik Bilimleri Dergisi, Other journals, October 2021

JOURNAL OF COMPOSITE MATERIALS, SCI Journal, July 2021

JOURNAL OF NATURAL FIBERS, Journal Indexed in SCI-E, October 2020

Engineering Structures, Journal Indexed in SCI-E, July 2020

BIORESOURCES, Journal Indexed in SCI-E, February 2020

Proceedings Of The Institution Of Mechanical Engineers Part C-Journal Of Mechanical Engineering Science, Journal Indexed in SCI-E, January 2019

Journal of Mechanical Engineering Science, Journal Indexed in SCI-E, December 2018

International Journal of Scientific and Technological Research, Other Indexed Journal, November 2018

Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, National Scientific Refreed Journal, November 2016

## **Metrics**

Publication: 44  
Citation (WoS): 62  
Citation (Scopus): 28  
H-Index (WoS): 6  
H-Index (Scopus): 4

## **Scholarships**

TÜBİTAK 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, TÜBİTAK, 2016 - 2017  
DAAD Yoğunlaştırılmış Almanca Kursu, Official Institutions of Foreign Countries, 2012 - 2012  
TÜBİTAK Yurt Dışı Etkinliklere Katılım Destek Bursu, University, 2012 - 2012

## **Awards**

SÜLÜ İ. Y., TÜBİTAK Uluslararası Bilimsel Yayın Teşvik Ödülü, TÜBİTAK, December 2012

## **Non Academic Experience**

Melişah Üniversitesi Makine Mühendisliği Bölümü  
Çukurova Üniversitesi Makine Mühendisliği Bölümü  
Çukurova Üniversitesi Makine Mühendisliği Bölümü