

## Res. Asst. PhD Kerem ASMAZ

### Personal Information

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### International Researcher IDs

ScholarID: xnkNaQcAAAAJ

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Publons / Web Of Science ResearcherID: AAZ-7123-2020

ScopusID: 54982751100

Yoksis Researcher ID: 27663

### Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Makine Mühendisliği, Turkey  
2007 - 2013

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, İmal Usulleri, Turkey 2003 -  
2006

Undergraduate, Kocaeli University, Mühendislik Fakültesi, Makine Mühendisliği, Turkey Continues

### Dissertations

Doctorate, Polimerik malzemelerin tek ve çok eksenli çevrimsel yüklemelerdeki davranışının modellenmesi, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Makine Mühendisliği Anabilim Dalı Konstrüksiyon, 2013

Postgraduate, Görüntü işleme ile iki boyutlu cisimlerden grafik modeller için veri eldesi, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Makine Mühendisliği Anabilim Dalı İmal Usulleri, 2006

### Research Areas

Mechanical Engineering, Mechanical, Solid Mechanics, Engineering and Technology

### Academic Titles / Tasks

Research Assistant PhD, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2013 - Continues

Research Assistant, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2005 - 2013

### Academic and Administrative Experience

Erasmus Program Department Coordinator, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2020 - Continues

## Courses

STRENGTH OF MATERIALS 2, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
STATICS, Undergraduate, 2022 - 2023, 2020 - 2021, 2019 - 2020, 2018 - 2019  
PROJECT 1, Undergraduate, 2022 - 2023  
GRADUATION THESIS, Undergraduate, 2022 - 2023  
STRENGTH OF MATERIALS 1, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021  
PROJECT 2, Undergraduate, 2022 - 2023  
Basic Computer Science, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

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

- I. **Modelling of biaxial ratcheting behaviour of ultrahigh-molecular-weight polyethylene with viscoplasticity theory based on overstress for polymers**  
Colak O. U., ASMAZ K.  
POLYMER INTERNATIONAL, vol.64, no.11, pp.1522-1526, 2015 (SCI-Expanded)
- II. **Biaxial Ratcheting of Ultra High Molecular Weight Polyethylene: Experiments and Constitutive Modeling**  
ASMAZ K., Colak O. U., Hassan T.  
JOURNAL OF TESTING AND EVALUATION, vol.42, no.6, pp.1486-1492, 2014 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Investigation of using strain gauge in tension, torsion and bending experiments**  
KANER B., ASMAZ K.  
Sigma Journal of Engineering and Natural Sciences, vol.42, no.3, pp.755-766, 2024 (ESCI)
- II. **Düşük Karbonlu Çelik Malzemenin Rijitlik Değerinin Deneysel ve Teorik Yaklaşım ile Belirlenmesi**  
Erbayrak E., Asmaz K., Solak A.  
Bayburt Üniversitesi Fen Bilimleri Dergisi, vol.1, no.1, pp.1-7, 2018 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Static Analysis of Rim Using Finite Element Method**  
Asmaz K., Kaner B., Erbayrak E.  
3rd International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 19 - 21 September 2019, vol.1, no.1, pp.1473-1478
- II. **Meslek Yüksekokullarında Yangın Güvenliği**  
Karasoy T., Asmaz K.  
International Mediterranean SCIENCE AND ENGINEERING CONGRESS, Antalya, Turkey, 25 April 2019, pp.145
- III. **Effect of hydraulic torque converter part blades' intake and outlet angles on efficiency and torque curves**  
KANER B., ASMAZ K.  
4 International Mediterranean SCIENCE AND ENGINEERING CONGRESS, Antalya, Turkey, 25 April 2019, pp.1237-1250
- IV. **Determination of optimum mesh size for the fuel engine exhaust: A parametric study**  
Erbayrak S., Erbayrak E., Asmaz K.  
International Conference On Applied Analysis And Mathematical Modelling (ICAAMM2019), İstanbul, Turkey, 10 March 2019, pp.203

- V. **The Effect Of Changes In The Design Of The Crank Connecting Rod Mechanism On Stress**  
Kaner B., Asmaz K., Solak A.  
4th International Conference On Advances In Mechanical Engineering, İstanbul, Turkey, 19 December 2018, vol.1, no.1, pp.1596-1608
- VI. **The Usage of Strain Gauge in Tension, Torsion and Bending**  
Asmaz K., Erbayrak E., Solak A.  
International Conference on Science and Technology (ICONST 2018), Prizren, Kosovo, 05 September 2018, vol.1, no.1, pp.1041
- VII. **Working and Applied Training Safety in Vocational Schools**  
Karasoy T., Asmaz K.  
International Conference on Science and Technology (ICONST 2018), Prizren, Kosova, 05 September 2018, vol.1, no.1, pp.12
- VIII. **Biaxial Ratcheting Behavior of Ultra High Molecular Weight Polyethylene (UHMWPE)**  
ASMAZ K., ÇOLAK ÇAKIR Ö. Ü.  
6th International Conference on Polymer Behaviour (ICPB6), Vienna, Austria, 22 September 2014, pp.44
- IX. **Mechanical Characterization and Modeling of Cyclic Behavior of Ultra High Molecular Weight Polyethylene (UHMWPE)**  
Colak O. U., ASMAZ K., Hassan T.  
14th International Conference on Advances in Materials and Processing Technologies (AMPT), İstanbul, Turkey, 13 - 16 July 2011, vol.445, pp.877-879
- X. **Çelik Saçlarda Mekanik Özelliklerin Şekillendirmeye Etkisi**  
ASMAZ K.  
IV. Demir Çelik Konferansı. IV. Demir Çelik Konferansı, Karabük, Turkey, 1 - 03 November 2007

## Other Publications

- I. **Polimerik malzemelerin tek ve çok eksenli çevrimsel yüklemelerdeki davranışının modellenmesi**  
ASMAZ K.  
Other, 2013
- II. **Görüntü işleme ile iki boyutlu cisimlerden grafik modeller için veri eldesi**  
ASMAZ K.  
Other, 2006

## Supported Projects

BOĞOÇLU M. E., BOLAT B., ASMAZ K., Project Supported by Higher Education Institutions, Helezon ileticilerde polimer granül malzeme iletiminde alternatif hacimsel akış modeli oluşturma, 2017 - 2020

## Scientific Refereeing

Bayburt Üniversitesi Fen Bilimleri Dergisi, Other Indexed Journal, April 2022  
Journal of Advanced Research in Natural and Applied Sciences , Other Indexed Journal, September 2021  
Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, National Scientific Refreed Journal, February 2019  
Kırıkkale Üniversitesi Uluslararası Mühendislik Araştırma ve Geliştirme Dergisi, National Scientific Refreed Journal, November 2018

## Tasks In Event Organizations

Asmaz K., INTERNATIONAL ANKARA CONGRESS ON SCIENTIFIC RESEARCH VI, Scientific Congress, Ankara, Turkey, Nisan 2022

Asmaz K., 13th INTERNATIONAL CONFERENCE ON ENGINEERING & NATURAL SCIENCES, Scientific Congress, Burdur, Turkey, Mart 2022

Asmaz K., MAS 16th International European Conference On Mathematics, Engineering, Natural&Medical Sciences , Scientific Congress, Mardin, Turkey, Şubat 2022

Asmaz K., 12th INTERNATIONAL CONFERENCE ON ENGINEERING & NATURAL SCIENCES, Scientific Congress, Bingöl, Turkey, Aralık 2021

Asmaz K., 7th International GAP MATHEMATICS-ENGINEERING-SCIENCE AND HEALTH SCIENCES , Scientific Congress, Şanlıurfa, Turkey, Kasım 2021

Asmaz K., ANKARA INTERNATIONAL CONGRESS ON SCIENTIFIC RESEARCH-V, Scientific Congress, Ankara, Turkey, Ekim 2021

Asmaz K., 11th INTERNATIONAL CONFERENCE ON ENGINEERING & NATURAL SCIENCES, Scientific Congress, Muş, Turkey, Eylül 2021

Asmaz K., MAS 15th INTERNATIONAL EUROPEAN CONFERENCE ON MATHEMATICS, ENGINEERING, NATURAL & MEDICAL SCIENCES, Scientific Congress, Adana, Turkey, Eylül 2021

Asmaz K., 6th International GAP MATHEMATICS-ENGINEERING-SCIENCE AND HEALTH SCIENCES , Scientific Congress, Şanlıurfa, Turkey, Haziran 2021

Asmaz K., 10th INTERNATIONAL CONGRESS ON NATURAL SCIENCES AND ENGINEERING, Scientific Congress, Siirt, Turkey, Mayıs 2021

Asmaz K., ANKARA INTERNATIONAL CONGRESS ON SCIENTIFIC RESEARCH-IV, Scientific Congress, Ankara, Turkey, Nisan 2021

Asmaz K., 9th INTERNATIONAL CONFERENCE ON ENGINEERING & NATURAL SCIENCES, Scientific Congress, Ankara, Turkey, Aralık 2020

Asmaz K., 5th INTERNATIONAL GAP MATHEMATICS-ENGINEERING-SCIENCE AND HEALTH SCIENCES Congress, Scientific Congress, Şanlıurfa, Turkey, Aralık 2020

Asmaz K., MAS 13. ULUSLARARASI MATEMATİK-MÜHENDİSLİK-FEN VE SAĞLIK BİLİMLERİ KONGRESİ, Scientific Congress, Afghanistan, Ekim 2020

Asmaz K., III. INTERNATIONAL ANKARA CONFERENCE ON SCIENTIFIC RESEARCH , Scientific Congress, Ankara, Turkey, Ekim 2020

Asmaz K., MAS 12th INTERNATIONAL EUROPEAN CONFERENCE ON MATHEMATICS, ENGINEERING, NATURAL&MEDICAL SCIENCES, Scientific Congress, İzmir, Turkey, Temmuz 2020

Asmaz K., 3rd INTERNATIONAL BILTEK CONFERENCE ON SCIENCE, TECHNOLOGY & CURRENT DEVELOPMENTS, Scientific Congress, Adana, Turkey, Haziran 2020

Asmaz K., 8th INTERNATIONAL CONFERENCE ON ENGINEERING & NATURAL SCIENCES, Scientific Congress, Ankara, Turkey, Haziran 2020

Asmaz K., 7th INTERNATIONAL CONFERENCE ON ENGINEERING & NATURAL SCIENCES, Scientific Congress, İzmir, Turkey, Mayıs 2020

Asmaz K., 2. ULUSLARARASI MALATYA UYGULAMALI BİLİMLER KONGRESİ, Scientific Congress, Malatya, Turkey, Nisan 2020

Asmaz K., 4. INTERNATIONAL GAP CONFERENCE ON MATHEMATICS- ENGINEERING- SCIENCE AND MEDICAL STUDIES, Scientific Congress, Gaziantep, Turkey, Nisan 2020

Asmaz K., 2ND INTERNATIONAL BILTEK CONFERENCE ON SCIENCE, TECHNOLOGY & CURRENT DEVELOPMENTS IN SOCIAL SCIENCES, Scientific Congress, Baku, Azerbaijan, Mart 2020

Asmaz K., MAS 11th International European Conference On Mathematics, Engineering, Natural&Medical Sciences , Scientific Congress, Tokat, Turkey, Mart 2020

Asmaz K., 6th INTERNATIONAL CONFERENCE ON ENGINEERING & NATURAL SCIENCES, Scientific Congress, Şanlıurfa, Turkey, Ocak 2020

Asmaz K., ULUSLARARASI BİLİM, TEKNOLOJİ VE SOSYAL BİLİMLERDE GÜNCEL GELİŞMELER SEMPOZYUMU, Scientific Congress, Ankara, Turkey, Aralık 2019

Asmaz K., 1. ULUSLARARASI MALATYA UYGULAMALI BİLİMLER KONGRESİ, Scientific Congress, Malatya, Turkey, Aralık

2019

Asmaz K., 5th INTERNATIONAL CONFERENCE ON ENGINEERING & NATURAL SCIENCES, Scientific Congress, Van, Turkey, Aralık 2019

Asmaz K., MAS 10th INTERNATIONAL EUROPEAN CONFERENCE ON MATHEMATICS, ENGINEERING, NATURAL&MEDICAL SCIENCES, Scientific Congress, İzmir, Turkey, Aralık 2019

Asmaz K., 3. INTERNATIONAL GAP CONFERENCE ON MATHEMATICS- ENGINEERING- SCIENCE AND MEDICAL STUDIES, Scientific Congress, Şanlıurfa, Turkey, Aralık 2019

Asmaz K., 9th INTERNATIONAL EUROPEAN CONFERENCE ON MATHEMATICS, ENGINEERING, NATURAL & MEDICAL SCIENCES , Scientific Congress, Bursa, Turkey, Kasım 2019

## **Mobility Activity**

Erasmus Programme, Staff Mobility, ESAIP La Salle Graduate School of Engineering, France, 2018 - 2018

## **Metrics**

Publication: 16

Citation (WoS): 9

Citation (Scopus): 13

H-Index (WoS): 2

H-Index (Scopus): 3