

SELİM GÜRGEN

ASSOC. PROF.

Email : sgurgen@ogu.edu.tr

International Researcher IDs

ScholarID: n-g8k94AAAAJ

ORCID: 0000-0002-3096-0366

Publons / Web Of Science ResearcherID: AAH-3317-2019

ScopusID: 56888638500

Yoksis Researcher ID: 46615

Biography

Selim Gürgen is an Associate Professor in the Department of Aeronautical Engineering at Eskişehir Osmangazi University (ESOGU), located in Eskişehir, Turkey. Additionally, he serves as the Director of Eskişehir Vocational School within ESOGU, and holds a position as an Executive Board Member of the Aerospace Technologies Research Center.

He obtained his B.Sc. and M.Sc. degrees in Mechanical Engineering from Gazi University and Middle East Technical University, respectively. His Ph.D. degree was conferred by Eskişehir Osmangazi University. Dr. Gürgen has participated in international projects and collaborations, including visits to the University of Wollongong in Australia for a project on smart materials, and the University of Aveiro in Portugal for research on cork composites. Prior to his academic career, he worked as a Manufacturing Engineer at a joint venture of KMWE-Dutch Aero in the Netherlands.

Throughout his career, Dr. Gürgen has contributed to various industrial and research projects in collaboration with organizations such as Turkish Aerospace Industries (TAI), Fiat Automotive Industry, and the Turkish Air Force. Funding for his projects has been provided by the Scientific and Technological Research Council of Turkey (TÜBİTAK), the European Union (EU), and other local and international funders.

He has a substantial publication record, with numerous articles in refereed international journals and conferences, as well as edited and authored books and book chapters. Dr. Gürgen also serves as an editorial member for several international journals.

His achievements include receiving the Research Priority Area Grant from TÜBİTAK in 2015, Publication Performance Awards from Anadolu University (2017-2018) and Eskişehir Osmangazi University (2019-2023), the Polytex Award from the International R&D Project Summit in 2018, and the Project Award in Priority Areas from TÜBİTAK in 2020.

Dr. Gürgen's contributions have been recognized internationally, and he has been ranked among the world's best scientists by Stanford University consecutively from 2019 to 2022, as well as in the career-long category.

He collaborates with various research groups from different institutions around the world. His research interests primarily focus on materials science, particularly Shear Thickening Fluid (STF) and its applications in the defense and aerospace industries.

Learning Knowledge

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|------------------------------|---|
| Doctorate 2013 - 2017 | Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Makine Mühendisliği (Dr), Turkey |
| Doctorate 2015 - 2016 | University of Wollongong, Visiting Fellow, Mechanical Engineering (Dr), Australia |
| Postgraduate 2009 - 2011 | Middle East Technical University, Graduate School Of Natural And Applied Sciences, Makine Mühendisliği (YI) (Tezli), Turkey |
| Undergraduate 2005 - 2009 | Gazi University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey |

Certificates, Courses and Trainings

Measurement and Evaluation, Airbus Wing Components: Inspection , KMWE Dutch Aero , 2012
Quality Management, Total Productive Maintenance, CSH , 2012
Vocational Training, Nastran-Patran FEA , Bias Engineering , 2010
Vocational Training, 3D Modeling , Beltek, 2008

Dissertations

Doctorate, Kayma altında katılaştıran sıvı takviyeli zırh kumaşının seramik toz katkıları ile özelliklerinin geliştirilmesi, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Makine Mühendisliği (Dr), 2017
Postgraduate, Analysis of roller hemming process for a vehicle tailgate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Makine Mühendisliği (YI) (Tezli), 2011

Academic Titles / Tasks

| | |
|---|--|
| Associate Professor 2021 - Continues | Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, UÇAK MÜHENDİSLİĞİ BÖLÜMÜ |
| Associate Professor 2020 - 2021 | Eskisehir Osmangazi University, ESKİŞEHİR MESLEK YÜKSEKOKULU, ELEKTRONİK VE OTOMASYON BÖLÜMÜ |
| Assistant Professor 2019 - 2020 | Universidade de Aveiro, Department of Mechanical Engineering |
| Assistant Professor 2019 - 2020 | Eskisehir Osmangazi University, ESKİŞEHİR MESLEK YÜKSEKOKULU, ELEKTRONİK VE OTOMASYON BÖLÜMÜ |
| Lecturer 2017 - 2019 | Eskisehir Osmangazi University, ESKİŞEHİR MESLEK YÜKSEKOKULU, ELEKTRONİK VE OTOMASYON BÖLÜMÜ |

Research Assistant
2013 - 2017

Anadolu University, Transportation Vocational School, Department Of Motor
Vehicles And Transportation Technologies

Research Assistant
2015 - 2016

University of Wollongong, School of Mechanical, Materials, Mechatronics and
Biomedical Engineering

Engineer
2011 - 2013

Aerospace Structures Division, Manufacturing Engineer

Engineer
2011 - 2012

Aerospace Structures Division, Quality Control Engineer

Engineer
2009 - 2011

Structural Analysis Engineer

Supported Projects

1. Gürgeen S., Fernandes F., De Sousa R. A., Project Supported by Public Organizations in Other Countries, Sustainable Safety for E-Micromobility, 2022 - 2024
2. Gürgeen S., Hopali C., Balabanlı D., Bilgili O., Türkistanlı T., TUBITAK Project, Darbe Sönümleyici Akıllı Sünger Üretimi, 2022 - 2023
3. GÜRGEN S., SERT A., KUŞHAN M. C., Project Supported by Higher Education Institutions, Havacılık Parçalarının Hassas Yüzey İşlemine Geliştirecek Akıllı Aşındırıcı Malzeme Geliştirilmesi, 2022 - 2023
4. Gürgeen S., Özdemir Er E., Bayrak K., Project Supported by Other Private Institutions, Nano Malzeme Katkılı Çok Fonksiyonlu Kompozit Yapıların Geliştirilmesi, 2022 - 2023
5. Gürgeen S., Kuşhan M. C., Sofuoğlu M. A., EU Supported Other Project, Educational Development for Sustainable and Eco-friendly Cork Composites in Aerospace Applications (ECOCORK), 2020 - 2023
6. Gürgeen S., Türkistanlı T., Akşit N. S., Company, Koltuk Fırlatma Sistemlerinde Yüksek İvme Sönümleyici Non-Newtonian Malzeme İncelenmesi, 2021 - 2022
7. Gürgeen S., Ülgeen B., Ablay İ., TUBITAK Project, Oksidasyonun UHMWPE Kompozit Aşınma Davranışına Olan Etkisinin Araştırılması, 2020 - 2021
8. Gürgeen S., Project Supported by Higher Education Institutions, Kayma Altında Katılaşılan Sıvılarla Açık Hücreli Süngerlerin Enerji Sönümleme Kapasitesinin Arttırılması, 2020 - 2021
9. SOFUOĞLU M. A., GÜRGEN S., Project Supported by Higher Education Institutions, Yeni Geliştirilen Seramik Takviyeli Polimer Kompozitlerin Mikro İşlenebilirliğinin Araştırılması, 2020 - 2021
10. Gürgeen S., Sofuoğlu M. A., Project Supported by Higher Education Institutions, Yeni Geliştirilen Seramik Takviyeli Polimer Kompozitlerin Mikro-işlenebilirliğinin Araştırılması, 2020 - 2021
11. Gürgeen S., Kuşhan M. C., TUBITAK Project, Kayma Altında Katılaşılan Sıvıların (Kaks) Zırlı Araçlarda Kullanılan Parçacık Kalkanına Adapte Edilmesi, 2019 - 2020
12. Gürgeen S., Yıldız T., TUBITAK Project, Kayma Altında Katılma Davranışı Gösteren Kompozit Malzemelerin Bıçak ve Saplama Direncinin Belirlenmesi, 2019 - 2020
13. Kuşhan M. C., Çelik O. N., Gürgeen S., Project Supported by Higher Education Institutions, UHMWPE matrisli kompozit yapıların mekanik ve tribolojik davranışlarının incelenmesi, 2018 - 2019
14. Kuşhan M. C., Çakır F. H., Gürgeen S., Project Supported by Higher Education Institutions, Ultrasonik yardımcı tornalama işleminin deneysel olarak incelenmesi, 2016 - 2017
15. Gürgeen S., Kuşhan M. C., TUBITAK Project, Sıcak Ultrasonik Yardımlı Tornalama İşleminin Deneysel ve Sayısal Olarak İncelenmesi, 2016 - 2017

16. Kuşhan M. C., Gürgen S., Project Supported by Higher Education Institutions, Kayma altında katılaştıran sıvı takviyeli zırh kumaşının seramik toz katkıları ile balistik açıdan geliştirilmesi, 2014 - 2016
17. Gürgen S., Gökler M. İ., Darendeliler H., Project Supported by Other Private Institutions, TOFAŞ-ODTÜ Roller Hemming Prosesinin Geliştirilmesi, 2010 - 2010

Awards

1. Gürgen S., Ranking In The World's Best Scientists In The Career-Long Category, Stanford University And Elsevier Bv, October 2023
2. Gürgen S., Ranking in the World's Best Scientists of 2022, Stanford University And Elsevier Bv, October 2023
3. Gürgen S., Ranking in the World's Best Scientists of 2021, Stanford University And Elsevier Bv, October 2022
4. Gürgen S., Ranking in the World's Best Scientists in the Career-long Category, Stanford University And Elsevier Bv, October 2022
5. Gürgen S., Ranking in the World's Best Scientists of 2020, Stanford University And Elsevier Bv, October 2021
6. Gürgen S., Ranking in the World's Best Scientists in the Career-long Category, Stanford University And Elsevier Bv, October 2021
7. Gürgen S., Q1 Indeks Dergilerde En Fazla Makale Üreten Akademisyen Ödülü-2020 , Eskişehir Osmangazi Üniversitesi , January 2021
8. Gürgen S., Ranking in the World's Best Scientists of 2019 , Stanford University, November 2020
9. Gürgen S., Akademik Performans Ödülü-2019, Eskişehir Osmangazi Üniversitesi, February 2020
10. Gürgen S., Akademik Performans Ödülü-2018, Eskişehir Osmangazi Üniversitesi, February 2019
11. Gürgen S., Makale Performans Ödülü-2017, Anadolu Üniversitesi, February 2018
12. Gürgen S., Makale Performans Ödülü-2016, Anadolu Üniversitesi, February 2017

Scholarships

Research Priority Area Scholarship, TUBITAK, 2015 - 2017
International Research Scholarship, TUBITAK, 2015 - 2016

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Vibration suppression and surface quality enhancement in milling thin-walled structures using shear thickening fluids**
Sheikhi M. R., Gürgen S., Li J.
JOURNAL OF MANUFACTURING PROCESSES, vol.1, pp.1-20, 2024 (SCI-Expanded)
2. **Shear thickening fluids in cork composites for impact mitigation: the role of fumed silica concentration**
Oliveira L., Serra G., GÜRGEN S., Novais R., Alves de Sousa R., Fernandes F.
Archives of Civil and Mechanical Engineering, vol.24, no.2, 2024 (SCI-Expanded)
3. **Shear thickening fluid (STF) in engineering applications and the potential of cork in STF-based composites**
Serra G. F., Oliveira L., Gürgen S., De Sousa R. J. A., Fernandes F. A.
ADVANCES IN COLLOID AND INTERFACE SCIENCE, pp.1-20, 2024 (SCI-Expanded)
4. **Enhanced anti-impact resistance of polyurethane foam composites with multi-phase shear thickening fluids containing various carbon nanofillers**
Sheikhi M. R., Hasanzadeh M., Gürgen S., Li J.
MATERIALS TODAY COMMUNICATIONS, vol.38, pp.1-14, 2024 (SCI-Expanded)
5. **Force attenuation performance in sandwich structures with STF and M-STF encapsulation**

Sheikhi M. R., Bayrak K., Özdemir E., Gürgen S.

HELIYON, vol.10, pp.1-14, 2024 (SCI-Expanded)

6. **Shear thickening fluids in cork composites for impact mitigation: the role of fumed silica concentration**
Oliveira L., Serra G., Gürgen S., Novais R., De Sousa R. A., Fernandes F.
ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING, vol.24, pp.1-12, 2024 (SCI-Expanded)
7. **Design of smart sandwich structures enhanced by multi-functional shear thickening fluids (M-STFs): Anti-vibration and electrical conductivity**
Sheikhi M. R., Guergen S., Li J., SOFUOĞLU M. A., Hasanzadeh M., Kushan M. C., Chen Z.
COMPOSITE STRUCTURES, vol.324, 2023 (SCI-Expanded)
8. **The role of conductive fillers on the rheological behavior and electrical conductivity of multi-functional shear thickening fluids (M-STFs)**
Sheikhi M. R., Hasanzadeh M., GÜRGEN S.
ADVANCED POWDER TECHNOLOGY, vol.34, no.8, 2023 (SCI-Expanded)
9. **Intelligent Polymers for Multi-Functional Applications: Mechanical and Electrical Aspects**
Sheikhi M. R., Guergen S.
POLYMERS, vol.15, no.12, 2023 (SCI-Expanded)
10. **Anti-impact and vibration-damping design of cork-based sandwich structures for low-speed aerial vehicles**
Sheikhi M. R., GÜRGEN S., Altuntas O., SOFUOĞLU M. A.
ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING, vol.23, no.2, 2023 (SCI-Expanded)
11. **Failure analysis of an axle shaft in an airport ground support vehicle**
Diler A. A., Gürgen S., Sert A.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART L-JOURNAL OF MATERIALS-DESIGN AND APPLICATIONS, vol.237, no.4, pp.925-940, 2023 (SCI-Expanded)
12. **Micro-milling Operation of UHMWPE Composites with PTFE and Aramid Reinforcements**
Sheikhi M. R., GÜRGEN S.
APPLIED COMPOSITE MATERIALS, vol.30, no.1, pp.57-72, 2023 (SCI-Expanded)
13. **Energy-Absorbing and Eco-Friendly Perspectives for Cork and WKSF Based Composites under Drop-Weight Impact Machine**
Sheikhi M. R., Gürgen S., Altuntaş Ö.
Machines, vol.10, no.11, pp.1-13, 2022 (SCI-Expanded)
14. **Improvement of spall liner performance with smart fluid applications**
Guergen S., KUŞHAN M. C.
THIN-WALLED STRUCTURES, vol.180, 2022 (SCI-Expanded)
15. **Deceleration behavior of multi-layer cork composites intercalated with a non-Newtonian material**
Sheikhi M. R., GÜRGEN S.
ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING, vol.23, no.1, 2022 (SCI-Expanded)
16. **Unexpected Method of High-Viscosity Shear Thickening Fluids Based on Polypropylene Glycols Development via Thermal Treatment**
Tryznowski M., Golofit T., GÜRGEN S., Krecisz P., Chmielewski M.
MATERIALS, vol.15, no.17, 2022 (SCI-Expanded)
17. **Optimization of micromachining operation for particle reinforced UHMWPE composites**
GÜRGEN S., SOFUOĞLU M. A.
ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING, vol.22, 2022 (SCI-Expanded)
18. **Wear behavior of UHMWPE composites under oxidative effect**
GÜRGEN S.
POLYMER DEGRADATION AND STABILITY, vol.199, 2022 (SCI-Expanded)
19. **The Influence of UV Radiation Aging on Degradation of Shear Thickening Fluids**
Zurowski R., Tryznowski M., GÜRGEN S., Szafran M., Swiderska A.
MATERIALS, vol.15, no.9, 2022 (SCI-Expanded)

20. **A State-of-the-Art Review on Hemming: A Materials Processing Technology for Mechanical Joints**
GÜRGEN S., Pruncu C.
APPLIED MECHANICS REVIEWS, vol.74, no.2, 2022 (SCI-Expanded)
21. **Anti-impact design of multi-layer composites enhanced by shear thickening fluid**
Sheikhi M. R., GÜRGEN S.
COMPOSITE STRUCTURES, vol.279, 2022 (SCI-Expanded)
22. **Finite element analysis of different material models for polyurethane elastomer using estimation data sets**
Sheikhi M. R., Shamsadinlo B., ÜNVER Ö., GÜRGEN S.
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.43, no.12, 2021 (SCI-Expanded)
23. **Micro-machining of UHMWPE composites reinforced with carbide fillers**
Gürgen S., Sofuoğlu M. A.
ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING, vol.21, no.4, 2021 (SCI-Expanded)
24. **An investigation on wear behavior of UHMWPE/carbide composites at elevated temperatures**
Gürgen S., Sert A., Kuşhan M. C.
Journal of Applied Polymer Science, vol.138, no.16, 2021 (SCI-Expanded)
25. **Smart polymer integrated cork composites for enhanced vibration damping properties**
Gürgen S., SOFUOĞLU M. A.
COMPOSITE STRUCTURES, vol.258, 2021 (SCI-Expanded)
26. **Development of Eco-friendly Shock-absorbing Cork Composites Enhanced by a Non-Newtonian Fluid**
GÜRGEN S., Fernandes F. A. O., de Sousa R. J. A., KUŞHAN M. C.
APPLIED COMPOSITE MATERIALS, vol.28, no.1, pp.165-179, 2021 (SCI-Expanded)
27. **Rheological modeling of multi-phase shear thickening fluid using an intelligent methodology**
Gürgen S., Sofuoğlu M. A., Kuşhan M. C.
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.42, no.11, 2020 (SCI-Expanded)
28. **Rheological and deformation behavior of natural smart suspensions exhibiting shear thickening properties**
GÜRGEN S., de Sousa R. J. A.
ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING, vol.20, no.4, 2020 (SCI-Expanded)
29. **Integration of shear thickening fluid into cutting tools for improved turning operations**
GÜRGEN S., SOFUOĞLU M. A.
JOURNAL OF MANUFACTURING PROCESSES, vol.56, pp.1146-1154, 2020 (SCI-Expanded)
30. **Vibration attenuation of sandwich structures filled with shear thickening fluids**
GÜRGEN S., SOFUOĞLU M. A.
COMPOSITES PART B-ENGINEERING, vol.186, 2020 (SCI-Expanded)
31. **Low-velocity impact performance of UHMWPE composites consolidated with carbide particles**
GÜRGEN S.
ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING, vol.20, no.2, 2020 (SCI-Expanded)
32. **Stab resistance of smart polymer coated textiles reinforced with particle additives**
Gürgen S., Yildiz T.
COMPOSITE STRUCTURES, vol.235, 2020 (SCI-Expanded)
33. **Numerical modeling of fabrics treated with multi-phase shear thickening fluids under high velocity impacts**
GÜRGEN S.
THIN-WALLED STRUCTURES, vol.148, 2020 (SCI-Expanded)
34. **Numerical modeling of roller hemming operation on a straight edge part**
GÜRGEN S.
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.41, no.11, 2019 (SCI-Expanded)

35. **Experimental investigation on vibration characteristics of shear thickening fluid filled CFRP tubes**
GÜRGEN S., SOFUOĞLU M. A.
COMPOSITE STRUCTURES, vol.226, 2019 (SCI-Expanded)
36. **Polishing operation of a steel bar in a shear thickening fluid medium**
GÜRGEN S., SERT A.
COMPOSITES PART B-ENGINEERING, vol.175, 2019 (SCI-Expanded)
37. **Fatigue and corrosion behavior of in-service AA7075 aircraft component after thermo-mechanical and retrogression and re-aging treatments**
GÜRGEN S., Sackesen I., KUŞHAN M. C.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART L-JOURNAL OF MATERIALS-DESIGN AND APPLICATIONS, vol.233, no.9, pp.1764-1772, 2019 (SCI-Expanded)
38. **Tribological behavior of UHMWPE matrix composites reinforced with PTFE particles and aramid fibers**
GÜRGEN S., ÇELİK O. N., KUŞHAN M. C.
COMPOSITES PART B-ENGINEERING, vol.173, 2019 (SCI-Expanded)
39. **Wear performance of UHMWPE based composites including nano-sized fumed silica**
GÜRGEN S.
COMPOSITES PART B-ENGINEERING, vol.173, 2019 (SCI-Expanded)
40. **An efficient approach by adjusting bounds for heuristic optimization algorithms**
SOFUOĞLU M. A., ÇAKIR F. H., GÜRGEN S.
SOFT COMPUTING, vol.23, no.13, pp.5199-5212, 2019 (SCI-Expanded)
41. **Multi-criteria decision-making analysis of different non-traditional machining operations of Ti6Al4V**
GÜRGEN S., ÇAKIR F. H., SOFUOĞLU M. A., ORAK S., KUŞHAN M. C., Li H.
SOFT COMPUTING, vol.23, no.13, pp.5259-5272, 2019 (SCI-Expanded)
42. **Tuning the Frictional Properties of Carbon Fabrics Using Boron Carbide Particles**
GÜRGEN S., Majumdar A.
FIBERS AND POLYMERS, vol.20, no.4, pp.725-731, 2019 (SCI-Expanded)
43. **An investigation on composite laminates including shear thickening fluid under stab condition**
GÜRGEN S.
JOURNAL OF COMPOSITE MATERIALS, vol.53, no.8, pp.1111-1122, 2019 (SCI-Expanded)
44. **Surface topography of nickel-based superalloy manufactured with direct metal laser sintering (DMLS) method**
Solakoglu E. U., GÜRGEN S., KUŞHAN M. C.
SURFACE TOPOGRAPHY-METROLOGY AND PROPERTIES, vol.7, no.1, 2019 (SCI-Expanded)
45. **Rheological compatibility of multi-phase shear thickening fluid with a phenomenological model**
GÜRGEN S., SOFUOĞLU M. A., KUŞHAN M. C.
SMART MATERIALS AND STRUCTURES, vol.28, no.3, 2019 (SCI-Expanded)
46. **A parametric investigation of roller hemming operation on a curved edge part**
GÜRGEN S.
ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING, vol.19, no.1, pp.11-19, 2019 (SCI-Expanded)
47. **Impact Behavior of Preloaded Aluminum Plates at Oblique Conditions**
GÜRGEN S.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.44, no.2, pp.1649-1656, 2019 (SCI-Expanded)
48. **Tuning the Rheology of Nano-Sized Silica Suspensions with Silicon Nitride Particles**
GÜRGEN S.
JOURNAL OF NANO RESEARCH, vol.56, pp.63-70, 2019 (SCI-Expanded)
49. **Numerical investigation of hot ultrasonic assisted turning of aviation alloys**
SOFUOĞLU M. A., ÇAKIR F. H., GÜRGEN S., ORAK S., KUŞHAN M. C.
Journal of the Brazilian Society of Mechanical Sciences and Engineering, vol.40, no.3, 2018 (SCI-Expanded)
50. **Experimental investigation of machining characteristics and chatter stability for Hastelloy-X with ultrasonic and hot turning**

SOFUOĞLU M. A., ÇAKIR F. H., GÜRGEN S., ORAK S., KUŞHAN M. C.

INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.95, pp.83-97, 2018 (SCI-Expanded)

51. **The ballistic performance of aramid based fabrics impregnated with multi-phase shear thickening fluids**
GÜRGEN S., KUŞHAN M. C.
POLYMER TESTING, vol.64, pp.296-306, 2017 (SCI-Expanded)
52. **Shear thickening fluids in protective applications: A review**
GÜRGEN S., KUŞHAN M. C., Li W.
PROGRESS IN POLYMER SCIENCE, vol.75, pp.48-72, 2017 (SCI-Expanded)
53. **Effect of heat treatment on the bending behavior of aluminum alloy tubes**
SERT A., GÜRGEN S., ÇELİK O. N., KUŞHAN M. C.
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.31, no.11, pp.5273-5278, 2017 (SCI-Expanded)
54. **The stab resistance of fabrics impregnated with shear thickening fluids including various particle size of additives**
GÜRGEN S., KUŞHAN M. C.
COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING, vol.94, pp.50-60, 2017 (SCI-Expanded)
55. **Oxidation and thermal shock behavior of thermal barrier coated 18/10CrNi alloy with coating modifications**
GÜRGEN S., Diltemiz S. F., KUŞHAN M. C.
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.31, no.1, pp.149-155, 2017 (SCI-Expanded)
56. **The effect of silicon carbide additives on the stab resistance of shear thickening fluid treated fabrics**
GÜRGEN S., KUŞHAN M. C.
MECHANICS OF ADVANCED MATERIALS AND STRUCTURES, vol.24, no.16, pp.1381-1390, 2017 (SCI-Expanded)
57. **The rheology of shear thickening fluids with various ceramic particle additives**
GÜRGEN S., Li W., KUŞHAN M. C.
MATERIALS & DESIGN, vol.104, pp.312-319, 2016 (SCI-Expanded)
58. **The effect of carbide particle additives on rheology of shear thickening fluids**
GÜRGEN S., KUŞHAN M. C., Li W.
KOREA-AUSTRALIA RHEOLOGY JOURNAL, vol.28, no.2, pp.121-128, 2016 (SCI-Expanded)
59. **Fatigue failure in aircraft structural components**
GÜRGEN S., KUŞHAN M. C., Diltemiz S. F.
HANDBOOK OF MATERIALS FAILURE ANALYSIS WITH CASE STUDIES FROM THE AEROSPACE AND AUTOMOTIVE INDUSTRIES, pp.261-277, 2016 (SCI-Expanded)

Articles Published in Other Journals

1. **An electromechanical in situ viscosity measurement technique for shear thickening fluids**
HAYDARLAR G., SOFUOĞLU M. A., GÜRGEN S., KUŞHAN M. C., TEKKALMAZ M.
ADVANCED ENGINEERING FORUM, 2021 (Peer-Reviewed Journal)
2. **Ultrasonic Inspection for Microstructural and Mechanical Properties of Ductile Cast Iron**
Özdemir Ö., Gürgen S., Kuşhan M. C.
Advanced Engineering Forum, vol.39, pp.9-19, 2021 (Peer-Reviewed Journal)
3. **Experimental investigation of newly designed cutting tool inserts in turning**
SOFUOĞLU M. A., GÜRGEN S., KUŞHAN M. C.
Journal of Production Systems and Manufacturing Science, 2020 (Peer-Reviewed Journal)
4. **Design and Economic Analysis of a Novel Hot Ultrasonic Machining System**
SOFUOĞLU M. A., GÜRGEN S., ÇAKIR F. H., ORAK S., KUŞHAN M. C.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.22, no.2, pp.277-282, 2019 (ESCI)
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GÜRGEN S., GÖKLER M. İ., DARENDELİLER H., Çelikkaya Ç. C., Erden K.
NUMIFORM 2013, Shenyang, China, 6 - 08 July 2013, vol.1, pp.367-374

Academic and Administrative Experience

| | | |
|------------------|--|--|
| 2023 - Continues | Applied Research Center Board Member | Eskisehir Osmangazi University, REKTÖRLÜK, Havacılık ve Uzay Teknolojileri Uygulama ve Araştırma Merkezi |
| 2022 - Continues | Director of Vocational School | Eskisehir Osmangazi University, ESKİŞEHİR MESLEK YÜKSEKOKULU |
| 2022 - Continues | Fakülte Ar-Ge Projeleri Kurul Üyeliği | Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, UÇAK MÜHENDİSLİĞİ BÖLÜMÜ |
| 2021 - Continues | Erasmus Program Institutional Coordinator | Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, UÇAK MÜHENDİSLİĞİ BÖLÜMÜ |
| 2019 - Continues | Faculty Management Board Member | Eskisehir Osmangazi University, ESKİŞEHİR MESLEK YÜKSEKOKULU |
| 2018 - Continues | College Board Member | Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, UÇAK MÜHENDİSLİĞİ BÖLÜMÜ |
| 2019 - 2021 | Head of Department | Eskisehir Osmangazi University, ESKİŞEHİR MESLEK YÜKSEKOKULU, ELEKTRONİK VE OTOMASYON BÖLÜMÜ |

Courses

STATICS, Undergraduate, 2022 - 2023
TOLERANS VE TOLERANS ANALİZİ, Postgraduate, 2022 - 2023
MANUFACTURING TECHNOLOGIES, Undergraduate, 2023 - 2024
MECHANICS OF MATERIALS, Undergraduate, 2022 - 2023
HAVACILIKTA HASAR ANALİZİ, Postgraduate, 2022 - 2023
Proje, Associate Degree, 2017 - 2018
Endüstriyel Robotlar, Associate Degree, 2017 - 2018
Hidrolik ve Pnömatik Sistemler, Associate Degree, 2017 - 2018
Teknik Resim, Associate Degree, 2017 - 2018
Endüstriyel Ölçüm Teknikleri, Associate Degree, 2017 - 2018

Advising Theses

Gürgen S., Gaz Türbinli Motorlar ve Test Altyapı Sistemleri, Postgraduate, O.YAVUZ(Student), 2024
Gürgen S., Uçak kompozit yapılarında erozyon direncinin incelenmesi, Postgraduate, O.BAYDIR(Student), 2024
Altuntaş Ö., Gürgen S., Anti-impact and vibration-damping design of cork-based sandwich structures for rotary-wing drone cage applications, Doctorate, M.RAUF(Student), 2023
Gürgen S., Havaalanlarının çevresel etkileri, Postgraduate, K.MARDIYEV(Student), 2023
Gürgen S., Havaalanı yer destek aracının aks mili hasar analizi, Postgraduate, A.ARMAĞAN(Student), 2023
Gürgen S., Nano Malzeme Katkılı Çok Fonksiyonlu Kompozit Yapıların Geliştirilmesi, Postgraduate, K.BAYRAK(Student), 2023
Gürgen S., Kuşhan M. C., Uçak kompozit yapılarında termografik analiz ile tahribatsız muayene, Postgraduate, E.EROĞLU(Student), 2019
Gürgen S., Kuşhan M. C., Lazerle metal toz eritme (SLM) prosesi sonrası proses parametrelerinin yüzey kalitesine olan

etkisinin incelenmesi, Postgraduate, E.UĞUR(Student), 2018

Patent

Gürgen S., Kuşhan M. C., Koruyuculuğu Artıran Seramik Toz Katkılı Kayma Altında Katılaştıran Sıvı İçerikli Zırh Kumaşı, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Recourse Number: 2017/19607 , Standard Registration, 2017

Activities in Scientific Journals

Advanced Composites Letters, Special Issue Editor, 2019 - Continues

Journal of Aerospace Technology and Management, Committee Member, 2019 - Continues

SCIENCE PROGRESS, Committee Member, 2019 - Continues

Memberships / Tasks in Scientific Organizations

Ulusal Uçak, Havacılık ve Uzay Mühendisliği Kurultayı, Member of Advisory Board, 2021 - Continues, Turkey

Scientific Refereeing

SMART MATERIALS & STRUCTURES, SCI Journal, September 2021

TUBITAK Project, 1505 - University-Industry Cooperation Support Program, Eskisehir Osmangazi University, Turkey, September 2021

Industrial Thesis Project, Kütahya OSB, Turkey, September 2021

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Eskisehir Osmangazi University, Turkey, September 2021

COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING, SCI Journal, August 2021

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART E-JOURNAL OF PROCESS MECHANICAL ENGINEERING, SCI Journal, August 2021

MATERIALS TODAY CHEMISTRY, SCI Journal, July 2021

JOURNAL OF ENGINEERED FIBERS AND FABRICS, SCI Journal, July 2021

CHEMICAL ENGINEERING JOURNAL, SCI Journal, June 2021

INDUSTRIAL LUBRICATION AND TRIBOLOGY, SCI Journal, June 2021

Industrial Thesis Project, EOSB, Turkey, June 2021

TRIBOLOGY INTERNATIONAL, SCI Journal, May 2021

AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, SCI Journal, April 2021

COMPOSITE STRUCTURES, SCI Journal, January 2021

COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING, SCI Journal, December 2020

ADVANCED POWDER TECHNOLOGY, SCI Journal, November 2020

COMPOSITES PART B-ENGINEERING, SCI Journal, October 2020

POLYMER TESTING, SCI Journal, September 2020

Textile and Fiber Engineering, Elsevier, Scientific / Professional Book Published by Renowned Publishing Houses, August 2020

SMART MATERIALS & STRUCTURES, SCI Journal, August 2020

APPLIED COMPOSITE MATERIALS, SCI Journal, July 2020

ADVANCES IN COLLOID AND INTERFACE SCIENCE, SCI Journal, June 2020

JOURNAL OF APPLIED PHYSICS, SCI Journal, June 2020

JOURNAL OF INDUSTRIAL TEXTILES, SCI Journal, June 2020

MATERIALS & DESIGN, SCI Journal, June 2020
MICRON, SCI Journal, May 2020
ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING, SCI Journal, May 2020
INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, SCI Journal, April 2020
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, SCI Journal, April 2020
INTERNATIONAL JOURNAL OF MACHINE TOOLS & MANUFACTURE, SCI Journal, March 2020
STEEL AND COMPOSITE STRUCTURES, SCI Journal, March 2020
IEEE ACCESS, SCI Journal, March 2020
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, SCI Journal, February 2020
JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, SCI Journal, February 2020
ACS OMEGA, SCI Journal, February 2020
Technopark, Eskisehir Osmangazi University, Turkey, February 2020
FIBERS AND POLYMERS, SCI Journal, January 2020
JOURNAL OF ADVANCED RESEARCH, SCI Journal, December 2019
JOURNAL OF MANUFACTURING PROCESSES, SCI Journal, November 2019
JOURNAL OF VIBRATION AND CONTROL, SCI Journal, November 2019
CERAMICS INTERNATIONAL, SCI Journal, October 2019
MEASUREMENT, SCI Journal, September 2019
JOURNAL OF MATERIALS SCIENCE, SCI Journal, August 2019
COLLOID AND POLYMER SCIENCE, SCI Journal, July 2019
POWDER TECHNOLOGY, SCI Journal, July 2019
RHEOLOGICA ACTA, SCI Journal, June 2019
TRIBOLOGY LETTERS, SCI Journal, May 2019
TRIBOLOGY TRANSACTIONS, SCI Journal, April 2019
TRIBOLOGY INTERNATIONAL, SCI Journal, March 2019
INTERNATIONAL JOURNAL OF PLASTICITY, SCI Journal, February 2019
JOURNAL OF COMPOSITE MATERIALS, SCI Journal, February 2019
JOURNAL OF MANUFACTURING PROCESSES, SCI Journal, January 2019
MEASUREMENT SCIENCE & TECHNOLOGY, SCI Journal, January 2019
TUBITAK Project, 1501 - Industry R & D Projects Support Program, Eskisehir Osmangazi University, Turkey, January 2019
DEFENCE TECHNOLOGY, SCI Journal, December 2018
KOREA-AUSTRALIA RHEOLOGY JOURNAL, SCI Journal, November 2018
ADVANCED COMPOSITES LETTERS, SCI Journal, November 2018
THIN-WALLED STRUCTURES, SCI Journal, October 2018

Scientific Consultations

Eskişehir Osmangazi Üniversitesi, Project Consultancy, Eskisehir Osmangazi University, ESKİŞEHİR MESLEK YÜKSEKOKULU, ELEKTRONİK VE OTOMASYON BÖLÜMÜ, Turkey, 2020 - 2020
Eskişehir Sanayi Odası, Project Consultancy, Eskisehir Osmangazi University, ESKİŞEHİR MESLEK YÜKSEKOKULU, ELEKTRONİK VE OTOMASYON BÖLÜMÜ, Turkey, 2019 - 2019

Metrics

Publication: 169
Citation (WoS): 1681
Citation (Scopus): 2201
H-Index (WoS): 24

H-Index (Scopus): 24

Research Areas

Mechanical Engineering, Textile Engineering and Technology, Aeronautical and Space Engineering, Metallurgical and Materials Engineering, Engineering and Technology

Non Academic Experience

University of Aveiro

University of Wollongong

Coşkunöz Savunma ve Havacılık

OTEST AŞ