

SELİM GÜRGEN

ASSOC. PROF.

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International Researcher IDs

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

ScopusID: 56888638500

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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

Doctorate 2013 - 2017	Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, 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 (Yl) (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 katılaşan sıvı takviyeli zırh kumaşının seramik toz katkıları ile özelliklerinin geliştirilmesi, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, 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 (Yl) (Tezli), 2011

Academic Titles / Tasks

Associate Professor 2021 - Continues	Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Uçak Mühendisliği
Associate Professor 2020 - 2021	Eskisehir Osmangazi University, Eskişehir Meslek Yüksekokulu, Elektronik ve Otomasyon
Assistant Professor 2019 - 2020	Universidade de Aveiro, Department of Mechanical Engineering
Assistant Professor 2019 - 2020	Eskisehir Osmangazi University, Eskişehir Meslek Yüksekokulu, Elektronik ve Otomasyon
Lecturer 2017 - 2019	Eskisehir Osmangazi University, Eskişehir Meslek Yüksekokulu, Elektronik ve Otomasyon

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, Mechatronic 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. Gürgen S., Fernandes F., De Sousa R. A., Project Supported by Public Organizations in Other Countries, Sustainable Safety for E-Micromobility, 2022 - 2024
2. Gürgen 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 İşlemini Geliştirecek Akıllı Aşındırıcı Malzeme Geliştirilmesi, 2022 - 2023
4. Gürgen S., Özdemir Er E., Bayrak K., Project Supported by Other Private Institutions, Nano Malzeme Katkılı Çok Fonksiyonlu Kompozit Yapıların Geliştirilmesi, 2022 - 2023
5. Gürgen 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. Gürgen S., Türkistanlı T., Akşit N. S., Company, Koltuk Fırlatma Sistemlerinde Yüksek İvme Sönümleyici Non-Newtonian Malzeme İncelenmesi, 2021 - 2022
7. Gürgen S., Ülgen B., Ablay İ., TUBITAK Project, Oksidasyonun UHMWPE Kompozit Aşınma Davranışına Olan Etkisinin Araştırılması, 2020 - 2021
8. Gürgen S., Project Supported by Higher Education Institutions, Kayma Altında Katılaştan 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. Gürgen S., Sofuoğlu M. A., Project Supported by Higher Education Institutions, Yeni Geliştirilen Seramik Takviyeli Polimer Kompozitlerin Mikro-işlenebilirliğinin Araştırılması, 2020 - 2021
11. Gürgen S., Kuşhan M. C., TUBITAK Project, Kayma Altında Katılaştan Sıvıların (Kaks) Zırhlı Araçlarda Kullanılan Parçacık Kalkanına Adapte Edilmesi, 2019 - 2020
12. Gürgen 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., Gürgen 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., Gürgen S., Project Supported by Higher Education Institutions, Ultrasonik yardımcı tornalama işleminin deneysel olarak incelenmesi, 2016 - 2017
15. Gürgen 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 katılaştan 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. **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)
2. **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)
3. **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)
4. **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)
5. **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)

6. **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)
7. **Intelligent Polymers for Multi-Functional Applications: Mechanical and Electrical Aspects**
Sheikhi M. R., Guergen S.
POLYMERS, vol.15, no.12, 2023 (SCI-Expanded)
8. **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)
9. **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)
10. **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)
11. **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)
12. **Improvement of spall liner performance with smart fluid applications**
Guergen S., KUŞHAN M. C.
THIN-WALLED STRUCTURES, vol.180, 2022 (SCI-Expanded)
13. **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)
14. **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)
15. **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)
16. **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)
17. **Wear behavior of UHMWPE composites under oxidative effect**
GÜRGEN S.
POLYMER DEGRADATION AND STABILITY, vol.199, 2022 (SCI-Expanded)
18. **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)
19. **Anti-impact design of multi-layer composites enhanced by shear thickening fluid**
Sheikhi M. R., GÜRGEN S.
COMPOSITE STRUCTURES, vol.279, 2022 (SCI-Expanded)
20. **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)

21. **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)
22. **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)
23. **Smart polymer integrated cork composites for enhanced vibration damping properties**
Gürgen S., SOFUOĞLU M. A.
COMPOSITE STRUCTURES, vol.258, 2021 (SCI-Expanded)
24. **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)
25. **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)
26. **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)
27. **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)
28. **Vibration attenuation of sandwich structures filled with shear thickening fluids**
GÜRGEN S., SOFUOĞLU M. A.
COMPOSITES PART B-ENGINEERING, vol.186, 2020 (SCI-Expanded)
29. **Stab resistance of smart polymer coated textiles reinforced with particle additives**
Gürgen S., Yildiz T.
COMPOSITE STRUCTURES, vol.235, 2020 (SCI-Expanded)
30. **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)
31. **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)
32. **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)
33. **Experimental investigation on vibration characteristics of shear thickening fluid filled CFRP tubes**
GÜRGEN S., SOFUOĞLU M. A.
COMPOSITE STRUCTURES, vol.226, 2019 (SCI-Expanded)
34. **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)
35. **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)
36. **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)
 37. **Wear performance of UHMWPE based composites including nano-sized fumed silica**
GÜRGEN S.
COMPOSITES PART B-ENGINEERING, vol.173, 2019 (SCI-Expanded)
 38. **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)
 39. **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)
 40. **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)
 41. **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)
 42. **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)
 43. **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)
 44. **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)
 45. **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)
 46. **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)
 47. **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)
 48. **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)
 49. **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)
 50. **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)
51. **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)
 52. **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)
 53. **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)
 54. **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)
 55. **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)
 56. **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)
 57. **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-POLITEKNİK DERGİSİ, vol.22, no.2, pp.277-282, 2019 (ESCI)
5. **A Numerical Investigation on Oblique Projectile Impact Behavior of AA5083-H116 Plates**
GÜRGEN S.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGİSİ, vol.22, no.2, pp.293-301, 2019 (ESCI)
6. **Yeni sıcak ultrasonik yardımcı imalat ünitesi tasarımı ve ekonomik analizi**
SOFUOĞLU M. A., GÜRGEN S., ÇAKIR F. H., ORAK S., KUŞHAN M. C.
Journal of Polytechnic, 2019 (Peer-Reviewed Journal)
7. **An Investigation on Surface Roughness and Tool Wear in Turning Operation of Inconel 718**
GÜRGEN S., Tali D., KUŞHAN M. C.
JOURNAL OF AEROSPACE TECHNOLOGY AND MANAGEMENT, vol.11, 2019 (ESCI)

8. **Machining of Hastelloy-X based on finite element modelling**
Çakır F. H., Sofuoğlu M. A., Gürgen S.
Advanced Engineering Forum, vol.30, 2018 (Peer-Reviewed Journal)
9. **The Influence of Boundary Condition on the Impact Behavior of High Performance Fabrics**
GÜRGEN S.
Advanced Engineering Forum, vol.28, pp.47-54, 2018 (Peer-Reviewed Journal)
10. **High Performance Fabrics in Body Protective Systems**
Gürgen S., Kuşhan M. C.
Materials Science Forum, vol.880, pp.132-135, 2017 (Scopus)
11. **Rheological Properties of Shear Thickening Fluids**
GÜRGEN S., KUŞHAN M. C.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGİSİ, vol.19, no.4, pp.409-414, 2016 (ESCI)
12. **Kayma Altında Katılaştıran Sıvıların Reolojik Özellikleri**
GÜRGEN S., KUŞHAN M. C.
Politeknik Dergisi, vol.19, no.4, pp.409-414, 2016 (Peer-Reviewed Journal)
13. **Numerical Simulation of Roller Hemming Operation on Convex Edge Convex Surface Parts**
GÜRGEN S.
Advanced Engineering Forum, vol.15, pp.75-84, 2016 (Peer-Reviewed Journal)
14. **Finite Element Modeling of Ultrasonic Assisted Turning of Ti6Al4V Alloy**
Çakır F. H., Gürgen S., Sofuoğlu M. A., Çelik O. N., Kuşhan M. C.
Finite Element Modeling of Ultrasonic Assisted Turning of Ti6Al4V Alloy, no.195, pp.2839-2848, 2015 (Peer-Reviewed Journal)
15. **Multi Response Optimization Of Turning Operation With Self-Propelled Rotary Tool**
Gürgen S., Çakır F. H., Sofuoğlu M. A., Orak S., Kuşhan M. C.
Procedia - Social and Behavioral Sciences, no.195, pp.2576-2585, 2015 (Peer-Reviewed Journal)
16. **Operational Improvements in The Assembly Process of Lead Cable Using New Methods**
Sofuoğlu M. A., Çakır F. H., Gürgen S., Kuşhan M. C.
Procedia - Social and Behavioral Sciences, no.195, pp.2576-2585, 2015 (Peer-Reviewed Journal)

Books & Book Chapters

1. **Modern Manufacturing Processes for Aircraft Materials**
Gürgen S. (Editor), Pruncu C. I. (Editor)
Elsevier Science, Oxford/Amsterdam , New Mexico, 2024
2. **Smart Systems with Shear Thickening Fluid**
Gürgen S. (Editor)
Springer Nature, Alabama, 2024
3. **Cork-Based Materials in Engineering**
Gürgen S. (Editor)
Springer Nature, Alabama, 2024
4. **Shear Thickening Fluids in Protective Applications**
Gürgen S. (Editor)
Springer Nature, Alabama, 2023
5. **Shear Thickening Fluid: Case Studies in Engineering**
Gürgen S. (Editor)
Springer Nature, Alabama, 2023
6. **Shear Thickening Fluid: Theory and Applications**
Gürgen S. (Editor)
Springer Nature, Alabama, 2023
7. **Aeronautical/space applications of cork composites**

Ragimov Y., Sofuoğlu M. A., Gürgen S., Kuşhan M. C.

in: Cork in aerospace: Cultivation to application, SELİM GÜRGEN,MEHMET ALPER SOFUOĞLU,MELİH CEMAL KUŞHAN, Editor, ESOGU Press, Eskişehir, pp.166-191, 2023

8. **Development of Shear Thickening Fluid Based Polishing Slurries**

Sert A., Gürgen S., Kuşhan M. C.

in: Shear Thickening Fluid Case Studies in Engineering, Selim Gürgen, Editor, Springer Nature, Alabama, pp.1-11, 2023

9. **Shear thickening fluid in spall-liner applications**

Sheikhi M. R., Gürgen S., Kuşhan M. C.

in: Advances in Healthcare and Protective Textiles, Shahid ul-Islam,Abhijit Majumdar,Bhupendra Butola, Editor, Elsevier Science, Oxford/Amsterdam , Massachusetts, pp.487-508, 2023

10. **Materials, Structures and Manufacturing for Aircraft**

Gürgen S. (Editor), Kuşhan M. C. (Editor), Sofuoğlu M. A. (Editor)

Springer Nature, Zürich, 2022

11. **Green Applications with an Advanced Manufacturing Method: Cold Spray Deposition Technology**

Kılıçay K., Dayı S. C., Kaya E., Gürgen S.

in: Advanced Manufacturing Methods: Smart Processes and Modeling for Optimization, Catalin Pruncu,Jamal Zbitou, Editor, CRC, New York , New York, pp.28-56, 2022

12. **Aluminum-Lithium Alloys in Aircraft Structures**

Kaya E., Sheikhı M. R., Gürgen S., Kuşhan M. C.

in: Materials, Structures & Manufacturing for Aircraft, Melih Cemal Kuşhan,Selim Gürgen,Mehmet Alper Sofuoğlu, Editor, Springer Nature, Zürich, pp.1-25, 2022

13. **Green Applications with an Advanced Manufacturing Method: Cold Spray Deposition Technology**

KILIÇAY K., DAYI S. C., KAYA E., GÜRGEN S.

in: Advanced Manufacturing Methods Smart Processes and Modeling for Optimization, Catalin I. Pruncu, Jamal Zbitou, Editor, CRC Press, Boca Raton, pp.27-56, 2022

14. **Fiber-Reinforced Polymers: Processes and Applications**

Pruncu C. I. (Editor), Gürgen S. (Editor), Hoque E. (Editor)

NOVA Science Publishers Inc. , New York, 2021

15. **Wear behavior of UHMWPE: A case study of gas spring**

Gürgen S., Sert A., Kuşhan M. C.

in: Tribology and Surface Engineering for Industrial Applications, Catalin Pruncu,Amit Aherwar, Editor, CRC, New York , New York, pp.1-34, 2021

16. **Advancements in conventional machining: A case of vibration and heat-assisted machining of aerospace alloys**

Gürgen S., Sofuoğlu M. A.

in: Advanced Machining and Finishing, Kapil Gupta,Alokesh Pramanik, Editor, Elsevier Science, Oxford/Amsterdam , Oxford, pp.1-31, 2021

17. **Advancements in conventional machining: a case of vibration and heat-assisted machining of aerospace alloys**

GÜRGEN S., SOFUOĞLU M. A.

in: Advanced machining and finishing, Kapil Gupta, Alokesh Pramanik, Editor, Elsevier, pp.143-177, 2021

18. **A dan Z ye Dünya Uçakları Helikopterleri ve İnsansız Hava Araçları**

KUŞHAN M. C., GÜRGEN S.

Nisan Kitabevi, Eskişehir, 2016

19. **Fatigue failure in aircraft structural components**

Gürgen S., Kuşhan M. C., Diltemiz S. F.

in: Handbook of Materials Failure Analysis With Case Studies from the Aerospace and Automotive Industries, Abdel Salam Hamdy Makhlouf,Mahmood Aliofkhazraei, Editor, Elsevier Science, Oxford/Amsterdam , Illinois, pp.261-277, 2015

Refereed Congress / Symposium Publications in Proceedings

1. **Recent developments and future trends in micro-milling tools and coatings**
SOFUOĞLU M. A., GÜRGEN S.
IV. International Turkic World Congress on Science and Engineering, Niğde, Turkey, 23 - 24 June 2022
2. **EFFECT OF UHMWPE COATING ON THE TRIBOLOGICAL BEHAVIOR OF A LASER TEXTURED STEEL**
SERT A., GÜRGEN S.
6th International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 20 October 2021, pp.1338-1341
3. **Yeni polimer matris kompozitlerin işlenebilirliğinin incelenmesi**
GÜRGEN S., YAMAN C., KAYA M., DÖNMEZ D., ÜLGEN B., SOFUOĞLU M. A.
6. Uluslararası Mühendislik ve Teknoloji Yönetimi Kongresi, Turkey, 20 November 2021
4. **ARAMID fabrics used as ballistic plate for army**
KUŞHAN M. C., GÜRGEN S., SOFUOĞLU M. A.
8th International Fiber and Polymer Research Symposium, Turkey, 18 - 19 June 2021
5. **Anti impact properties of smart cork composites**
GÜRGEN S., SOFUOĞLU M. A.
7. Uluslararası Mühendislik Mimarlık ve Tasarım Kongresi, Turkey, 21 - 22 May 2021
6. **Mikro frezelemede son gelişmeler ve gelecekteki eğilimler**
GÜRGEN S., SOFUOĞLU M. A.
7. Uluslararası Mühendislik Mimarlık ve Tasarım Kongresi, Turkey, 21 - 22 May 2021
7. **Role of friction in pull-out forces of textiles**
GÜRGEN S., SOFUOĞLU M. A.
5. Uluslararası Mühendislik ve Teknoloji Yönetimi Kongresi, Turkey, 24 - 25 April 2021
8. **Milling of dispersion hardened polymers**
GÜRGEN S., SOFUOĞLU M. A.
5. Uluslararası Mühendislik ve Teknoloji Yönetimi Kongresi, Turkey, 24 - 25 April 2021
9. **Polimer Kompozitlerin Mikro İşlenebilirliğinin İncelenmesi: Bir Literatür Değerlendirmesi**
SOFUOĞLU M. A., GÜRGEN S.
4. Uluslararası Akdeniz Sempozyumu, Mersin, Turkey, 22 - 24 October 2020
10. **Havacılık ve uzay uygulamalarında sürdürülebilir ve çevre dostu mantar kompozitleri:ECOCORK projesi**
SOFUOĞLU M. A., GÜRGEN S.
4. Uluslararası Akdeniz Sempozyumu, 22 - 24 October 2020
11. **Polimer kompozitlerin mikro işlenebilirliğinin incelenmesi: Bir literatür değerlendirmesi**
SOFUOĞLU M. A., GÜRGEN S.
4. Uluslararası Akdeniz Sempozyumu, 22 - 24 October 2020
12. **Deformation of STF Treated Spall Liners**
GÜRGEN S., KUŞHAN M. C.
International Symposium on Aircraft Technology, Eskişehir, Turkey, 22 - 24 September 2020
13. **Impact Performance of UHMWPE Structures**
GÜRGEN S.
International Symposium on Aircraft Technology, Eskişehir, Turkey, 22 - 24 September 2020
14. **Dünyada ve Ülkemizde Sivil Havacılık Bakım Onarım ve Yenileme (BOY) Faaliyetleri**
GÜRGEN S., SOFUOĞLU M. A., ÇAKIR F. H., KUŞHAN M. C.
9. Uluslararası Bakım Teknolojileri Kongresi ve Sergisi-BTKS, Denizli, Turkey, 26 - 28 September 2019, vol.1, pp.185-191
15. **Testing procedure of spall liner in armored vehicles**
GÜRGEN S.
International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 17 - 19 December 2019, vol.1, pp.77-80

16. **Frictional properties of carbon fiber reinforced UHMWPE composites**
GÜRGEN S.
International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 17 - 19 December 2019, vol.1, pp.94-96
17. **Modeling of STF impregnated textiles in yarn pull-out testing**
GÜRGEN S.
International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 17 - 19 December 2019, vol.1, pp.81-84
18. **RESEARCH ON APPLICATIONS OF MINI-TURBOJET AND TURBOJET ENGINED MILITARY UAVS**
Türkay M., GÜRGEN S., keskin g., DURMUŞ S., KUŞHAN M. C.
International Conference of Scientific Paper AFASES 2019, 31 May - 02 June 2019
19. **GLIDER FLIGHT TRAINING APPLICATION IN TURKISH AIR FORCE**
keskin g., KAFALI H., DURMUŞ S., GÜRGEN S., KUŞHAN M. C.
International Conference of Scientific Paper AFASES 2019, 31 May - 02 June 2019
20. **Influence of Manufacturing Conditions on Wear Properties of UHMWPE**
GÜRGEN S.
International Conference on Advances in Mechanical and Mechatronics Engineering, Ankara, Turkey, 8 - 09 November 2018, vol.1, pp.62-64
21. **Rheology of Cornstarch Suspension with Carbide Particles**
GÜRGEN S.
International Conference on Advances in Mechanical and Mechatronics Engineering, Ankara, Turkey, 8 - 09 November 2018, vol.1, pp.59-61
22. **Roller Hemming Operation on a Vehicle Door**
GÜRGEN S.
International Conference on Advances in Mechanical and Mechatronics Engineering, Ankara, Turkey, 8 - 09 November 2018, vol.1, pp.22-24
23. **Composite Structures of C919**
GÜRGEN S., ÇAKIR F. H., SOFUOĞLU M. A., KUŞHAN M. C.
Conferencefora 8th International Conference, Singapore, Singapore, 26 - 27 August 2018, vol.1, pp.1-4
24. **An experimental investigation of the ultrasonic-assisted machining of Ti-6Al-4V**
ÇAKIR F. H., GÜRGEN S., ORAK S., KUŞHAN M. C., SOFUOĞLU M. A.
UMTIK 2018, 3 - 06 July 2018
25. **Tribological and Finite Element Study on the Elastic Behaviour of a Steel Sphere against a Deformable Flat Material**
GÜRGEN S., SERT A.
2nd International Conference on Tribology, İstanbul, Turkey, 18 - 20 April 2018, vol.1, pp.237-240
26. **Investigation on Tribological Behavior of Laser Surface Treated Ti6Al4V Alloy**
ÇAVUŞOĞLU N., GÜRGEN S., ÇAKIR F. H., SERT A.
2nd International Conference on Tribology (TURKEYTRIB'18), İstanbul, Turkey, 18 - 20 April 2018, pp.233-236
27. **Seramik Tozu İçeren Nano Süspansiyonların Kumaş Yüksek Hızlı Çarpma Direncine Etkileri**
GÜRGEN S., KUŞHAN M. C.
3. Uluslararası Lif ve Polimer Araştırmaları Sempozyumu, Bursa, Turkey, 8 - 09 March 2018, vol.1, pp.1-6
28. **Shear strength of AA7075 lap joints after various joining methods**
GÜRGEN S., ÇAKIR F. H., SOFUOĞLU M. A., KUŞHAN M. C.
International Advanced Researches Engineering Congress, 16 - 18 November 2017
29. **Failure of Sandwich Structures in Aviation**
GÜRGEN S., GÖDE E., KUŞHAN M. C.
International Advanced Researches Engineering Congress, Osmaniye, Turkey, 16 - 18 November 2017, vol.1, pp.695-697
30. **Unmanned Systems For Navies**
ÇAMURDAN B., vural h., GÜRGEN S., KUŞHAN M. C.

Euroasian Multidisciplinary Forum, Tbilisi, Georgia, 6 - 07 October 2017, vol.1, pp.15

31. **Numerical investigation of hot ultrasonic assisted turning of titanium alloy**
ÇAKIR F. H., GÜRGEN S., SOFUOĞLU M. A., KUŞHAN M. C., ORAK S.
3rd International Conference on Engineering and Natural Sciences (ICENS 2017), 3 - 07 May 2017
32. **Numerical investigation of machining characteristics of Hastelloy-x**
SOFUOĞLU M. A., ÇAKIR F. H., GÜRGEN S., ORAK S., KUŞHAN M. C.
International Science and Technology Conference (ISTEC 2017), 17 - 19 July 2017
33. **TURNING OPERATION OF NICKEL BASED SUPERALLOY RENE 41**
tali d., GAŞAN H., GÜLEŞEN M., GÜRGEN S., KUŞHAN M. C.
The IIER International Conference, Prag, Czech Republic, 21 - 22 March 2017, vol.1, pp.1-3
34. **A NEW SUPERALLOY: ALLVAC 718 Plus**
SOFUOĞLU M. A., ÇAKIR F. H., GÜRGEN S., KUŞHAN M. C.
I S E R INTERNATIONAL CONFERENCE, Jakarta, Indonesia, 12 - 13 January 2017, vol.1, pp.1-4
35. **ALLVAC 718 PLUSTM**
SOFUOĞLU M. A., ÇAKIR F. H., GÜRGEN S., KUŞHAN M. C.
ISER International Conference, 12th -13th January 2017, Jakarta, Indonesia, Jakarta, Indonesia, 12 - 13 January 2017, vol.1, pp.1-4
36. **Springback Behavior of AA6082T6 Tubes in Three-point Bending Operation**
SOFUOĞLU M. A., GÜRGEN S., ÇAKIR F. H., ORAK S.
7th International Conference on Engineering, Project, and Production Management (EPPM), Bialystok, Poland, 21 - 23 September 2016, vol.182, pp.658-664
37. **A Study of Quantitative Metallography and X Ray Diff raction Methods for Quantifying Carbide Amount in AISI D2 Tool Steel**
SERT A., GÜRGEN S., ÇELİK O. N.
IMMC 2016 18th International Metallurgy & Materials Congress, İstanbul, Turkey, 29 October - 01 November 2016, pp.459-462
38. **Springback behaviour of AA6082T6 tubes in the three point bending operation**
SOFUOĞLU M. A., GÜRGEN S., ÇAKIR F. H., ORAK S.
7th International Conference on Engineering, Project, and Production Management (EPPM2016), Bialystok, Poland, 21 - 23 September 2016
39. **The Position of Turkish Air Transportation in Europe**
Çamurdan B., Çetin S., Gürgen S., Kuşhan M. C.
3rd International Multidisciplinary Scientific Conferences on Social Sciences and Arts, Varna, Bulgaria, 22 - 31 August 2016, vol.5, pp.849-855
40. **Description Of Modification With New Armor Protection Plates For Helicopters**
GÜRGEN S., şeniz kuşhan a., KUŞHAN M. C.
IAARHIES 28th International Conference on Engineering & Technology ICET – 2016, Shanghai, China, 18 - 19 September 2016
41. **Description of Modification of Armor Protection for Helicopters**
GÜRGEN S., KUŞHAN AKIN S. R., KUŞHAN M. C.
28th IAARHIES International Conferences, Shanghai, China, 18 - 19 September 2016, vol.1, pp.66-69
42. **High Performance Fabrics in Body Protective Systems**
Gürgen S., Kuşhan M. C.
4th Asia Conference on Mechanical and Materials Engineering (ACMME 2016), Kuala-Lumpur, Malaysia, 14 - 18 July 2016
43. **Yenilikçi Bir İmalat Yöntemi Ultrasonik Yardımlı Sıcak Tornalama**
GÜRGEN S., SOFUOĞLU M. A., ÇAKIR F. H., KUŞHAN M. C., ORAK S.
1st International Conference on Engineering Technology and Applied Sciences, Afyon, Turkey, 21 - 22 April 2016
44. **Abrasive Properties Of Silicon Carbide Particles In Shear Thickening Fluid**
GÜRGEN S., KUŞHAN M. C.
Conference On Advances In Mechanical Engineering, İstanbul, Turkey, 13 - 16 May 2016

45. **Abrasive Properties of Silicon Carbide Particles in Shear Thickening Fluid**
GÜRGEN S., KUŞHAN M. C.
The 2nd International Conference on Advances in Mechanical Engineering – ICAME2016, İstanbul, Turkey, 10 - 13 May 2016, vol.1, pp.298-302
46. **YENİLİKÇİ BİR İMALAT YÖNTEMİ ULTRASONİK YARDIMLI SICAK TORNALAMA**
GÜRGEN S., SOFUOĞLU M. A., ÇAKIR F. H., ORAK S., KUŞHAN M. C.
1st International Conference on Engeneering Technology and Applied Sciences, 21 - 22 April 2016
47. **Yenilikçi bir imalat yöntemi: Ultrasonik yardımcı sıcak tornalama**
GÜRGEN S., SOFUOĞLU M. A., ÇAKIR F. H., KUŞHAN M. C., ORAK S.
1. Uluslararası Mühendislik Teknolojileri ve Uygulamalı Bilimler Konferansı, 21 - 22 April 2016
48. **Yeni Bir Alışılmamış İmalat Yöntemi Sıcak Ultrasonik Yardımlı Tornalama**
GÜRGEN S., SOFUOĞLU M. A., ÇAKIR F. H., KUŞHAN M. C., ORAK S.
1. Uluslararası Mühendislik Teknolojileri ve Uygulamalı Bilimler Konferansı (ICETAS 2016), afyon, Turkey, 21 - 22 April 2016
49. **A400M gövdesinde kompozit malzeme uygulamaları**
KUŞHAN M. C., ÇAKIR F. H., GÜRGEN S., SOFUOĞLU M. A.
International Conference on Natural Science and Engineering, 19 - 20 March 2016
50. **Applications of Composite Materials in A400M Fuselage**
KUŞHAN M. C., ÇAKIR F. H., GÜRGEN S., SOFUOĞLU M. A.
International Conference on Natural Science and Engineering (ICNASE'16), Kilis, Turkey, 19 - 20 March 2016
51. **THE POSITION OF TURKISH AIR TRANSPORTATION IN EUROPE**
ÇAMURDAN B., Cetin S., GÜRGEN S., KUŞHAN M. C.
3rd International Multidisciplinary Scientific Conference on Social Sciences and Arts, SGEM 2016, Albena, Bulgaria, 24 - 30 August 2016, pp.849-855
52. **Multi Response Optimization Of Turning Operation With Self-Propelled Rotary Tool**
Gürgen S., Sofuoğlu M. A., Çakır F. H., Orak S., Kuşhan M. C.
World Conference on Technology, Innovation and Entrepreneurship, İstanbul, Turkey, 26 - 28 May 2015
53. **An Optimization Approach to Prevent Chatter Vibrations**
Sofuoğlu M. A., Çakır F. H., Gürgen S., Orak S., Çelik O. N., Kuşhan M. C.
27th The IIER International Conference, Samara, Russia, 05 June 2015, pp.37-39
54. **An optimization approach to prevent chatter vibrations**
SOFUOĞLU M. A., ÇAKIR F. H., GÜRGEN S., ORAK S., ÇELİK O. N., KUŞHAN M. C.
27 th TheIIER International Conference, St. Petersburg, Russia, 05 June 2015
55. **AN OPTIMIZATION APPROACH TO PREVENT CHATTER**
SOFUOĞLU M. A., ÇAKIR F. H., GÜRGEN S., ORAK S., ÇELİK O. N., KUŞHAN M. C.
Proceedings of 27th The IIER International Conference, St. Petersburg, Russia, 5 - 07 June 2015
56. **Flexible fixturing systems for low production quantities**
ÇAKIR F. H., GÜRGEN S., SOFUOĞLU M. A., ÇELİK O. N., KUŞHAN M. C., ORAK S.
27 th TheIIER International Conference, St. Petersburg, Russia, 05 June 2015
57. **An optimization approach to prevent chatter vibration**
Sofuoğlu M. A., Çakır F. H., Gürgen S., Orak S., Çelik O. N., Kuşhan M. C.
Proceeding of 27th The IIER International Conference, Sankt-Peterburg, Russia, 05 June 2015, pp.37-39
58. **Flexible fixturing system for low production quantities**
Çakır F. H., Gürgen S., Sofuoğlu M. A., Çelik O. N., Kuşhan M. C., Orak S.
Proceeding of 27th The IIER International Conference, Sankt-Peterburg, Russia, 05 June 2015, pp.56-58
59. **Multi Response Optimization of Turning Operation with Self Propelled Rotary Tool SPRT**
GÜRGEN S., SOFUOĞLU M. A., ÇAKIR F. H., ORAK S., KUŞHAN M. C.
WORLD CONFERENCE ON TECHNOLOGY, INNOVATION AND ENTREPRENEURSHIP, İstanbul, Turkey, 28 - 30 May 2015, vol.1, pp.50
60. **Operational Improvements in the Assembly Process of Lead Cable by Using New Methods**
SOFUOĞLU M. A., GÜRGEN S., ÇAKIR F. H., KUŞHAN M. C.

WORLD CONFERENCE ON TECHNOLOGY, INNOVATION AND ENTREPRENEURSHIP, İstanbul, Turkey, 28 - 30 May 2015, vol.1, pp.13-14

61. **Operational improvements in the assembly process of lead cable by using new method**
SOFUOĞLU M. A., GÜRGEN S., ÇAKIR F. H., KUŞHAN M. C.
WORLD CONFERENCE ON TECHNOLOGY, INNOVATION AND ENTREPRENEURS (WCTIE 2015), İstanbul, Turkey, 28 - 30 May 2015
62. **Finite Element Modelling of Ultrasonic Assisted Turning of Ti6Al4 Alloy**
Çakır F. H., Çelik O. N., Kuşhan M. C., Gürgen S., Sofuoğlu M. A.
İSTANBUL UNIVERSITY WORLD CONFERENCE ON TECHNOLOGY, INNOVATION AND ENTREPRENEURSHIP
“ENTREPRENEURSHIP FOR TECHNOLOGY AND INNOVATION - BASED SUSTAINABLE DEVELOPMENT”, İstanbul, Turkey, 28 - 30 May 2015
63. **Finite element modelling of ultrasonic assisted turning of Ti6Al4V alloy**
ÇAKIR F. H., ÇELİK O. N., KUŞHAN M. C., GÜRGEN S., SOFUOĞLU M. A.
WORLD CONFERENCE ON TECHNOLOGY, INNOVATION AND ENTREPRENEURSHIP (WCTIE 2015), İstanbul, Turkey, 28 - 30 May 2015
64. **Flexible Fixturing Systems for Low Production Quantities**
SOFUOĞLU M. A., ÇAKIR F. H., GÜRGEN S., ORAK S., ÇELİK O. N., KUŞHAN M. C.
27th The IIER International Conference, St. Petersburg, Russia, 4 December - 05 June 2015
65. **Finite Element Modeling of Ultrasonic Assisted Turning of Ti6Al4V Alloy**
ÇAKIR F. H., GÜRGEN S., SOFUOĞLU M. A., ÇELİK O. N., KUŞHAN M. C.
World Conference on Technology, Innovation and Entrepreneurship, İstanbul, Turkey, 28 - 30 May 2015, pp.2839-2848
66. **Multi response optimization of turning operation with self-propelled rotary tool**
GÜRGEN S., SOFUOĞLU M. A., ÇAKIR F. H., ORAK S., KUŞHAN M. C.
World Conference on Technology, Innovation and Entrepreneurship, İstanbul, Turkey, 28 - 30 May 2015, pp.2592-2600
67. **Operational Improvements in The Assembly Process of Lead Cable Using New Methods**
SOFUOĞLU M. A., ÇAKIR F. H., GÜRGEN S., KUŞHAN M. C.
World Conference on Technology, Innovation and Entrepreneurship, İstanbul, Turkey, 28 - 30 May 2015, pp.2576-2585
68. **A Novel Approach for Armor Applications of Shear Thickening Fluids in Aviation and Defense Industry**
ÇAKIR F. H., GÜRGEN S., SOFUOĞLU M. A., ÇELİK O. N., KUŞHAN M. C., ORAK S.
AFASES 2014, Brasov, Romania, 22 - 24 May 2014, vol.1, pp.179-187
69. **A Novel Approach for Armor Applications of Shear Thickening Fluids in Aviation and Defense Industry**
KUŞHAN M. C., GÜRGEN S., tolga ü., ÇEVİK S.
International Conference of Scientific Paper AFASES, bükreş, Romania, 22 - 24 May 2014
70. **Analysis of roller hemming process for a vehicle tailgate closure**
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	Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi	Eskisehir Osmangazi University, Rektörlük, Havacılık ve Uzay Teknolojileri Uygulama ve Araştırma Merkezi
2022 - Continues	Director of Vocational School	Eskisehir Osmangazi University, Eskişehir Meslek Yüksekokulu

2022 - Continues	Fakülte Ar-Ge Projeleri	Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Uçak
	Kurul Üyeliği	Mühendisliği
2021 - Continues	Erasmus Program	Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Uçak
	Institutional	Mühendisliği
	Coordinator	
2019 - Continues	Fakülte Yönetim Kurulu	Eskisehir Osmangazi University, Eskişehir Meslek Yüksekokulu
	Üyesi	
2018 - Continues	Yüksekokul Kurulu	Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Uçak
	Üyesi	Mühendisliği
2019 - 2021	Head of Department	Eskisehir Osmangazi University, Eskişehir Meslek Yüksekokulu, Elektronik Ve Otomasyon

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

Gürge S., Gaz Türbinli Motorlar ve Test Altyapı Sistemleri, Postgraduate, O.YAVUZ(Student), 2024
Gürge S., Uçak kompozit yapılarında erozyon direncinin incelenmesi, Postgraduate, O.BAYDIR(Student), 2024
Altuntaş Ö., Gürge S., Anti-impact and vibration-damping design of cork-based sandwich structures for rotary-wing drone cage applications, Doctorate, M.RAUF(Student), 2023
Gürge S., Havaalanlarının çevresel etkileri, Postgraduate, K.MARDIYEV(Student), 2023
Gürge S., Havaalanı yer destek aracının aks mili hasar analizi, Postgraduate, A.ARMAĞAN(Student), 2023
Gürge S., Nano Malzeme Katkılı Çok Fonksiyonlu Kompozit Yapıların Geliştirilmesi, Postgraduate, K.BAYRAK(Student), 2023
Gürge S., Kuşhan M. C., Uçak kompozit yapılarında termografik analiz ile tahribatsız muayene, Postgraduate, E.EROĞLU(Student), 2019
Gürge S., Kuşhan M. C., Lazerle metal toz ergitme (SLM) prosesi sonrası proses parametrelerinin yüzey kalitesine olan etkisinin incelenmesi, Postgraduate, E.UĞUR(Student), 2018

Patent

Gürge 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

SCIENCE PROGRESS, Committee Member, 2019 - Continues

Advanced Composites Letters, Special Issue Editor, 2019 - Continues

Journal of Aerospace Technology and Management, 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

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

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

MATERIALS TODAY CHEMISTRY, SCI Journal, July 2021

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

INDUSTRIAL LUBRICATION AND TRIBOLOGY, SCI Journal, June 2021

CHEMICAL ENGINEERING JOURNAL, 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

SMART MATERIALS & STRUCTURES, SCI Journal, August 2020

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

APPLIED COMPOSITE MATERIALS, SCI Journal, July 2020

JOURNAL OF APPLIED PHYSICS, SCI Journal, June 2020

JOURNAL OF INDUSTRIAL TEXTILES, SCI Journal, June 2020

ADVANCES IN COLLOID AND INTERFACE SCIENCE, 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

IEEE ACCESS, SCI Journal, March 2020

STEEL AND COMPOSITE STRUCTURES, SCI Journal, March 2020

ACS OMEGA, SCI Journal, February 2020

JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, SCI Journal, February 2020
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, 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 VIBRATION AND CONTROL, SCI Journal, November 2019
JOURNAL OF MANUFACTURING PROCESSES, SCI Journal, November 2019
CERAMICS INTERNATIONAL, SCI Journal, October 2019
MEASUREMENT, SCI Journal, September 2019
JOURNAL OF MATERIALS SCIENCE, SCI Journal, August 2019
POWDER TECHNOLOGY, SCI Journal, July 2019
COLLOID AND POLYMER SCIENCE, 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
MEASUREMENT SCIENCE & TECHNOLOGY, SCI Journal, January 2019
JOURNAL OF MANUFACTURING PROCESSES, 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
ADVANCED COMPOSITES LETTERS, SCI Journal, November 2018
KOREA-AUSTRALIA RHEOLOGY JOURNAL, SCI Journal, November 2018
THIN-WALLED STRUCTURES, SCI Journal, October 2018

Scientific Consultations

Eskişehir Osmangazi Üniversitesi, Project Consultancy, Eskisehir Osmangazi University, Eskişehir Meslek Yüksekokulu, Elektronik ve Otomasyon, Turkey, 2020 - 2020
Eskişehir Sanayi Odası, Project Consultancy, Eskisehir Osmangazi University, Eskişehir Meslek Yüksekokulu, Elektronik ve Otomasyon, Turkey, 2019 - 2019

Metrics

Publication: 166
Citation (WoS): 1705
Citation (Scopus): 1919
H-Index (WoS): 24
H-Index (Scopus): 23

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