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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 and Central South University in China for studies 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), TUSAS Engine Industries (TEI), 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 2023, 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.

Education Information

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

Certificates, Courses and Trainings

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

Dissertations

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

Research Areas

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

Academic Titles / Tasks

- I. Associate Professor, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, UÇAK MÜHENDİSLİĐİ BÖLÜMÜ, 2021 - Continues
- II. Associate Professor, School of Transportation, 2024 - 2024
- III. Associate Professor, Eskisehir Osmangazi University, ESKİŐEHİR MESLEK YÜKSEKOKULU, ELEKTRONİK VE OTOMASYON BÖLÜMÜ, 2020 - 2021
- IV. Assistant Professor, Universidade de Aveiro, Department of Mechanical Engineering , 2019 - 2020
- V. Assistant Professor, Eskisehir Osmangazi University, ESKİŐEHİR MESLEK YÜKSEKOKULU, ELEKTRONİK VE OTOMASYON BÖLÜMÜ, 2019 - 2020
- VI. Lecturer, Eskisehir Osmangazi University, ESKİŐEHİR MESLEK YÜKSEKOKULU, ELEKTRONİK VE OTOMASYON BÖLÜMÜ, 2017 - 2019
- VII. Research Assistant, Anadolu University, Transportation Vocational School, Department Of Motor Vehicles And Transportation Technologies, 2013 - 2017
- VIII. Research Assistant, University of Wollongong, School of Mechanical, Materials, Mechatronic and Biomedical Engineering, 2015 - 2016
- IX. Engineer, Aerospace Structures Division, Manufacturing Engineer, 2011 - 2013
- X. Engineer, Aerospace Structures Division, Quality Control Engineer, 2011 - 2012
- XI. Engineer, Structural Analysis Engineer, 2009 - 2011

Academic and Administrative Experience

- I. Uygulama ve Arařtırma Merkezi Yönetim Kurulu Üyesi, Eskisehir Osmangazi University, REKTÖRLÜK, Havacılık ve Uzay Teknolojileri Uygulama ve Arařtırma Merkezi , 2023 - Continues
- II. Director of Vocational School, Eskisehir Osmangazi University, ESKİŐEHİR MESLEK YÜKSEKOKULU, 2022 - Continues
- III. Fakülte Ar-Ge Projeleri Kurul Üyeliđi, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, UÇAK

- MÜHENDİSLİĞİ BÖLÜMÜ, 2022 - Continues
- IV. Erasmus Coordinator, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, UÇAK MÜHENDİSLİĞİ BÖLÜMÜ, 2021 - Continues
- V. Fakülte Yönetim Kurulu Üyesi, Eskisehir Osmangazi University, ESKİŞEHİR MESLEK YÜKSEKOKULU, 2019 - Continues
- VI. Yüksekokul Kurulu Üyesi, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, UÇAK MÜHENDİSLİĞİ BÖLÜMÜ, 2018 - Continues
- VII. Head of Department, Eskisehir Osmangazi University, ESKİŞEHİR MESLEK YÜKSEKOKULU, ELEKTRONİK VE OTOMASYON BÖLÜMÜ, 2019 - 2021

Courses

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

Supervised Theses

- I. Gürgen S., Gaz Türbinli Motorlar ve Test Altyapı Sistemleri, Postgraduate, O.YAVUZ(Student), 2024
- II. Gürgen S., Uçak kompozit yapılarında erozyon direncinin incelenmesi, Postgraduate, O.BAYDIR(Student), 2024
- III. 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
- IV. Gürgen S., Havaalanlarının çevresel etkileri, Postgraduate, K.MARDIYEV(Student), 2023
- V. Gürgen S., Havaalanı yer destek aracının aks mili hasar analizi, Postgraduate, A.ARMAĞAN(Student), 2023
- VI. Gürgen S., Nano Malzeme Katkılı Çok Fonksiyonlu Kompozit Yapıların Geliştirilmesi, Postgraduate, K.BAYRAK(Student), 2023
- VII. Gürgen S., Kuşhan M. C., Uçak kompozit yapılarında termografik analiz ile tahribatsız muayene, Postgraduate, E.EROĞLU(Student), 2019
- VIII. Gürgen S., Kuşhan M. C., Lazerle metal toz ergitme (SLM) prosesi sonrası proses parametrelerinin yüzey kalitesine olan etkisinin incelenmesi, Postgraduate, E.UĞUR(Student), 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Performance Analysis of Fluid-Core Whipple Shields under Hypervelocity Impact at different projectile speeds**
- Pai A., Rodriguez-Millan M., Gürgen S., Piccholiya A., Mujumdar N., Shenoy S.
Defence Technology, vol.43, no.1, pp.1-16, 2025 (SCI-Expanded)

- II. **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)
- III. **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)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **Intelligent Polymers for Multi-Functional Applications: Mechanical and Electrical Aspects**
Sheikhi M. R., Guergen S.
POLYMERS, vol.15, no.12, 2023 (SCI-Expanded)
- XI. **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)
- XII. **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)
- XIII. **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)
- XIV. **Improvement of spall liner performance with smart fluid applications**
Guergen S., KUŞHAN M. C.
THIN-WALLED STRUCTURES, vol.180, 2022 (SCI-Expanded)
- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **Wear behavior of UHMWPE composites under oxidative effect**
GÜRGEN S.
POLYMER DEGRADATION AND STABILITY, vol.199, 2022 (SCI-Expanded)
- XXI. **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)
- XXII. **Anti-impact design of multi-layer composites enhanced by shear thickening fluid**
Sheikhi M. R., GÜRGEN S.
COMPOSITE STRUCTURES, vol.279, 2022 (SCI-Expanded)
- XXIII. **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)
- XXIV. **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)
- XXV. **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)
- XXVI. **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)
- XXVII. **Smart polymer integrated cork composites for enhanced vibration damping properties**
Gürgen S., SOFUOĞLU M. A.
COMPOSITE STRUCTURES, vol.258, 2021 (SCI-Expanded)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)

- XXXI. **Vibration attenuation of sandwich structures filled with shear thickening fluids**
GÜRGEN S., SOFUOĞLU M. A.
COMPOSITES PART B-ENGINEERING, vol.186, 2020 (SCI-Expanded)
- XXXII. **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)
- XXXIII. **Stab resistance of smart polymer coated textiles reinforced with particle additives**
Gürgen S., Yildiz T.
COMPOSITE STRUCTURES, vol.235, 2020 (SCI-Expanded)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **Experimental investigation on vibration characteristics of shear thickening fluid filled CFRP tubes**
GÜRGEN S., SOFUOĞLU M. A.
COMPOSITE STRUCTURES, vol.226, 2019 (SCI-Expanded)
- XXXVII. **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)
- XXXVIII. **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)
- XXXIX. **Wear performance of UHMWPE based composites including nano-sized fumed silica**
GÜRGEN S.
COMPOSITES PART B-ENGINEERING, vol.173, 2019 (SCI-Expanded)
- XL. **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)
- XLI. **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)
- XLII. **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)
- XLIII. **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)
- XLIV. **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)
- XLV. **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)

- XLVI. **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)
- XLVII. **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)
- XLVIII. **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)
- XLIX. **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)
- L. **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)
- LI. **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)
- LII. **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)
- LIII. **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)
- LIV. **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)
- LV. **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)
- LVI. **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)
- LVII. **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)
- LVIII. **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)
- LIX. **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)
- LX. **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

- I. **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)
- II. **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)
- III. **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)
- IV. **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 DERGISI, vol.22, no.2, pp.277-282, 2019 (ESCI)
- V. **A Numerical Investigation on Oblique Projectile Impact Behavior of AA5083-H116 Plates**
GÜRGEN S.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.22, no.2, pp.293-301, 2019 (ESCI)
- VI. **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)
- VII. **An Investigation on Surface Roughness and Tool Wear in Turning Operation of Inconel 718**
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- I. Gürgen S., Fernandes F., De Sousa R. A., Project Supported by Public Organizations in Other Countries, Sustainable Safety for E-Micromobility, 2022 - 2024
- II. Gürgen S., Hopali C., Balabanlı D., Bilgili O., Türkistanlı T., TUBITAK Project, Darbe Sönümleyici Akıllı Sünger Üretimi, 2022 - 2023
- III. 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
- IV. Gürgen S., Özdemir Er E., Bayrak K., Project Supported by Other Private Institutions, Nano Malzeme Katkılı Çok Fonksiyonlu Kompozit Yapıların Geliştirilmesi, 2022 - 2023
- V. 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
- VI. Gürgen S., Türkistanlı T., Akşit N. S., Company, Koltuk Fırlatma Sistemlerinde Yüksek İvme Sönümleyici Non-Newtonian Malzeme İncelenmesi, 2021 - 2022
- VII. Gürgen S., Ülgen B., Ablay İ., TUBITAK Project, Oksidasyonun UHMWPE Kompozit Aşınma Davranışına Olan Etkisinin Araştırılması, 2020 - 2021
- VIII. Gürgen S., Project Supported by Higher Education Institutions, Kayma Altında Katılaştıran Sıvılarla Açık Hücreli Süngerlerin Enerji Sönümleme Kapasitesinin Arttırılması, 2020 - 2021
- IX. SOFUOĞLU M. A., GÜRGEN S., Project Supported by Higher Education Institutions, Yeni Geliştirilen Seramik Takviyeli Polimer Kompozitlerin Mikro İşlenebilirliğinin Araştırılması, 2020 - 2021
- X. Gürgen S., Sofuoğlu M. A., Project Supported by Higher Education Institutions, Yeni Geliştirilen Seramik Takviyeli Polimer Kompozitlerin Mikro-işlenebilirliğinin Araştırılması, 2020 - 2021
- XI. Gürgen S., Kuşhan M. C., TUBITAK Project, Kayma Altında Katılaştıran Sıvıların (Kaks) Zırlı Araçlarda Kullanılan Parçacık Kalkanına Adapte Edilmesi, 2019 - 2020
- XII. Gürgen S., Yıldız T., TUBITAK Project, Kayma Altında Katılma Davranışı Gösteren Kompozit Malzemelerin Bıçak ve Saplama Direncinin Belirlenmesi, 2019 - 2020
- XIII. 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
- XIV. Kuşhan M. C., Çakır F. H., Gürgen S., Project Supported by Higher Education Institutions, Ultrasonik yardımcı tornalama işleminin deneysel olarak incelenmesi, 2016 - 2017
- XV. Gürgen S., Kuşhan M. C., TUBITAK Project, Sıcak Ultrasonik Yardımlı Tornalama İşleminin Deneysel ve Sayısal

Olarak İncelenmesi, 2016 - 2017

- XVI. 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
- XVII. Gürgen S., Gökler M. İ., Darendeliler H., Project Supported by Other Private Institutions, TOFAŞ-ODTÜ Roller Hemming Prosesinin Geliştirilmesi, 2010 - 2010

Patent

- I. 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

- I. Advanced Composites Letters, Special Issue Editor, 2019 - Continues
- II. Journal of Aerospace Technology and Management, Committee Member, 2019 - Continues
- III. SCIENCE PROGRESS, Committee Member, 2019 - Continues

Memberships / Tasks in Scientific Organizations

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

Peer Reviews in Scientific Publications

- I. SMART MATERIALS & STRUCTURES, SCI Journal, September 2021
- II. COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING, SCI Journal, August 2021
- III. PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART E-JOURNAL OF PROCESS MECHANICAL ENGINEERING, SCI Journal, August 2021
- IV. MATERIALS TODAY CHEMISTRY, SCI Journal, July 2021
- V. JOURNAL OF ENGINEERED FIBERS AND FABRICS, SCI Journal, July 2021
- VI. CHEMICAL ENGINEERING JOURNAL, SCI Journal, June 2021
- VII. INDUSTRIAL LUBRICATION AND TRIBOLOGY, SCI Journal, June 2021
- VIII. TRIBOLOGY INTERNATIONAL, SCI Journal, May 2021
- IX. AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, SCI Journal, April 2021
- X. COMPOSITE STRUCTURES, SCI Journal, January 2021
- XI. COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING, SCI Journal, December 2020
- XII. ADVANCED POWDER TECHNOLOGY, SCI Journal, November 2020
- XIII. COMPOSITES PART B-ENGINEERING, SCI Journal, October 2020
- XIV. POLYMER TESTING, SCI Journal, September 2020
- XV. Textile and Fiber Engineering, Elsevier, Scientific / Professional Book Published by Renowned Publishing Houses, August 2020
- XVI. SMART MATERIALS & STRUCTURES, SCI Journal, August 2020
- XVII. APPLIED COMPOSITE MATERIALS, SCI Journal, July 2020
- XVIII. ADVANCES IN COLLOID AND INTERFACE SCIENCE, SCI Journal, June 2020
- XIX. JOURNAL OF APPLIED PHYSICS, SCI Journal, June 2020
- XX. JOURNAL OF INDUSTRIAL TEXTILES, SCI Journal, June 2020

- XXI. MATERIALS & DESIGN, SCI Journal, June 2020
- XXII. MICRON, SCI Journal, May 2020
- XXIII. ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING, SCI Journal, May 2020
- XXIV. INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, SCI Journal, April 2020
- XXV. JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, SCI Journal, April 2020
- XXVI. INTERNATIONAL JOURNAL OF MACHINE TOOLS & MANUFACTURE, SCI Journal, March 2020
- XXVII. STEEL AND COMPOSITE STRUCTURES, SCI Journal, March 2020
- XXVIII. IEEE ACCESS, SCI Journal, March 2020
- XXIX. JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, SCI Journal, February 2020
- XXX. JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, SCI Journal, February 2020
- XXXI. ACS OMEGA, SCI Journal, February 2020
- XXXII. FIBERS AND POLYMERS, SCI Journal, January 2020
- XXXIII. JOURNAL OF ADVANCED RESEARCH, SCI Journal, December 2019
- XXXIV. JOURNAL OF MANUFACTURING PROCESSES, SCI Journal, November 2019
- XXXV. JOURNAL OF VIBRATION AND CONTROL, SCI Journal, November 2019
- XXXVI. CERAMICS INTERNATIONAL, SCI Journal, October 2019
- XXXVII. MEASUREMENT, SCI Journal, September 2019
- XXXVIII. JOURNAL OF MATERIALS SCIENCE, SCI Journal, August 2019
- XXXIX. COLLOID AND POLYMER SCIENCE, SCI Journal, July 2019
- XL. POWDER TECHNOLOGY, SCI Journal, July 2019
- XLI. RHEOLOGICA ACTA, SCI Journal, June 2019
- XLII. TRIBOLOGY LETTERS, SCI Journal, May 2019
- XLIII. TRIBOLOGY TRANSACTIONS, SCI Journal, April 2019
- XLIV. TRIBOLOGY INTERNATIONAL, SCI Journal, March 2019
- XLV. INTERNATIONAL JOURNAL OF PLASTICITY, SCI Journal, February 2019
- XLVI. JOURNAL OF COMPOSITE MATERIALS, SCI Journal, February 2019
- XLVII. JOURNAL OF MANUFACTURING PROCESSES, SCI Journal, January 2019
- XLVIII. MEASUREMENT SCIENCE & TECHNOLOGY, SCI Journal, January 2019
- XLIX. DEFENCE TECHNOLOGY, SCI Journal, December 2018
- L. KOREA-AUSTRALIA RHEOLOGY JOURNAL, SCI Journal, November 2018
- LI. ADVANCED COMPOSITES LETTERS, SCI Journal, November 2018
- LII. THIN-WALLED STRUCTURES, SCI Journal, October 2018

Scientific Project Refereeing

- I. TUBITAK Project, 1505 - University-Industry Cooperation Support Program, September 2021
- II. Industrial Thesis Project, September 2021
- III. TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, September 2021
- IV. Industrial Thesis Project, June 2021
- V. Technopark, February 2020
- VI. TUBITAK Project, 1501 - Industry R & D Projects Support Program, January 2019

Scientific Consultations

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

Metrics

Publication: 170
Citation (WoS): 1681
Citation (Scopus): 2233
H-Index (WoS): 24
H-Index (Scopus): 24

Scholarships

- I. Research Priority Area Scholarship, TUBITAK, 2015 - 2017
- II. International Research Scholarship, TUBITAK, 2015 - 2016

Awards

- I. Gürgen S., Ranking In The World's Best Scientists In The Career-Long Category, Stanford University And Elsevier Bv, October 2023
- II. Gürgen S., Ranking in the World's Best Scientists of 2022, Stanford University And Elsevier Bv, October 2023
- III. Gürgen S., Ranking in the World's Best Scientists of 2021, Stanford University And Elsevier Bv, October 2022
- IV. Gürgen S., Ranking in the World's Best Scientists in the Career-long Category, Stanford University And Elsevier Bv, October 2022
- V. Gürgen S., Ranking in the World's Best Scientists of 2020, Stanford University And Elsevier Bv, October 2021
- VI. Gürgen S., Ranking in the World's Best Scientists in the Career-long Category, Stanford University And Elsevier Bv, October 2021
- VII. Gürgen S., Q1 Indeks Dergilerde En Fazla Makale Üreten Akademisyen Ödülü-2020 , Eskişehir Osmangazi Üniversitesi , January 2021
- VIII. Gürgen S., Ranking in the World's Best Scientists of 2019 , Stanford University, November 2020
- IX. Gürgen S., Akademik Performans Ödülü-2019, Eskişehir Osmangazi Üniversitesi, February 2020
- X. Gürgen S., Akademik Performans Ödülü-2018, Eskişehir Osmangazi Üniversitesi, February 2019
- XI. Gürgen S., Makale Performans Ödülü-2017, Anadolu Üniversitesi, February 2018
- XII. Gürgen S., Makale Performans Ödülü-2016, Anadolu Üniversitesi, February 2017

Coaching Duties

Refereeing Duties

Non Academic Experience

- I. University of Aveiro, Visiting Fellow
- II. University of Wollongong, Visiting Fellow
- III. Coşkunöz Savunma ve Havacılık, Proses Mühendisi
- IV. OTEST AŞ, Ar-Ge Mühendisi