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Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: A-5259-2018

ScopusID: 24366799400

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Education Information

2001 - 2005	Doctorate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Makine Mühendisliği (Dr), Turkey
1998 - 2001	Postgraduate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Makine Mühendisliği (Y) (Tezi), Turkey
1994 - 1998	Undergraduate, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, Makine Mühendisliği Bölümü, Turkey

Certificates, Courses and Trainings

2020	Eğitimde İnovasyon, Measurement and Evaluation, Bursa Uludağ Üniversitesi
2013	MÜDEK Akreditasyon Süreç Eğitimi, Measurement and Evaluation, MÜDEK

Dissertations

2005	Asimetrik Evolvent Sahip Düz Dişli Çarkların Analizi, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ, Doctorate
2001	Helisel Dişli Çarkların Boyutlandırılmasında Bilgisayar Desteği, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ, Postgraduate

Research Areas

Artificial Intelligence, Computer Learning and Pattern Recognition, Mechanical Engineering, Construction and Manufacturing, Tribology, Machine Elements, Machine Design, Computer Aided Design and Manufacturing, Predictive and Preventive Maintenance, Welding Methods, Material, Vehicle Systems Dynamics, Modeling and Simulation of Dynamic Systems, Mechanical Vibrations

Academic Titles / Tasks

2020 - Continues	Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ
2015 - 2020	Associate Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ
2011 - 2015	Assistant Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ
2008 - 2011	Lecturer PhD, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ
1998 - 2008	Research Assistant, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ

Academic and Administrative Experience

2023 - Continues	Manager of Research and Application Center, Bursa Uludağ University, REKTÖRLÜK, REKTÖRLÜK
2021 - Continues	Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Bursa Uludağ University, REKTÖRLÜK, REKTÖRLÜK
2021 - Continues	Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ
2019 - Continues	Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ
2013 - Continues	Mevlana Exchange Program Institutional Coordinator, Bursa Uludağ University, REKTÖRLÜK
2011 - Continues	Anabilim Dalı Akademik Kurul Üyesi, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ
2021 - 2023	Head of Department, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ
2021 - 2023	Fakülte Kurulu Üyesi, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ
2021 - 2023	Bölüm Kalite Komisyonu Başkanı, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ
2020 - 2023	Rektörlük Stratejik Plan Komisyonu Üyesi, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ
2019 - 2021	Meslek Yüksekokulu Yönetim Kurulu Üyesi, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ
2019 - 2021	Director of Vocational School, Bursa Uludağ University
2018 - 2021	Member of the Senate, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ
2011 - 2021	Deputy Head of Department, Bursa Uludağ University, Makine Mühendisliği Bölümü
2010 - 2021	Bölüm Kalite Komisyonu Üyesi, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ
2018 - 2019	Assistant Manager of Research and Application Center, Bursa Uludağ University, REKTÖRLÜK
2014 - 2014	Fakülte Akademik Kurul Üyesi, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, MAKİNA MÜHENDİSLİĞİ

Supervised Theses

2023	Karpat F., Doctorate, O.CAN(Student), Ulaştırma alanında kullanılan dişli çark mekanizmalarında diş dibi çatlak hasarının ve derecesinin tespiti için makine öğrenmesi esaslı güvenilir bir izleme yönteminin geliştirilmesi
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2022	Karpat F., Doctorate, E.KURTULUŞ(Student), Magnezyum alaşımlarının ekstrüzyon proses parametrelerinin sanal ve gerçek ortamda incelenmesi
2021	Karpat F., Postgraduate, D.NİŞANCI(Student), ŞASE YORULMA PARÇALARINDAN OLAN MOTOR BEŞİĞİNİN ALÜMİNYUM EKSTRÜZYON METODU İLE TASARIMI VE KAYNAK EDİLMESİNİN İNCELENMESİ
2021	Karpat F., Postgraduate, Y.DOĞAN(Student), EMNİYET KEMERİ YÜKSEKLİK AYAR VE OMUZ AYAR MEKANİZMALARINA SAHİP TİCARİ ARAÇ SÜRÜCÜ KOLTUKLARININ TASARIMI VE SONLU ELEMANLAR YÖNTEMİ İLE ANALİZİ
2020	KARPAT F., Postgraduate, H.Türkmen(Student), Experimental investigation of tribological behaviors of polymer materials in under dry sliding which is produced in 3D printer
2020	Karpat F., Postgraduate, H.Türkmen(Student), Experimental Investigation of Tribological Behaviors of Polymer Materials In Under Dry Sliding Which is Produced In 3D Printer
2020	Karpat F., Karadere G., Doctorate, T.GÜRKAN(Student), Structural analysis of new generation lightened spur gears with dual material
2020	KARPAT F., Doctorate, O.Doğan(Student), Investigation of the effects of gear tooth faults and damages on the dynamic behavior of non-standard gears
2020	Karpat F., Doctorate, O.DOĞAN(Student), STANDART OLMAYAN DİŞLİ ÇARKLARDA DİŞ HATA VE HASARLARININ DİŞLİ ÇARKIN DİNAMİK DAVRANIŞINA ETKİLERİNİN İNCELENMESİ
2020	Karpat F., Postgraduate, A.İşığışok(Student), Investigation of plate heat exchanger production data by machine learning methods, estimation and classification of lifetime test data
2019	Karpat F., Postgraduate, H.ALİ(Student), Experimental investigation of gear crack behavior
2019	Karpat F., Postgraduate, M.YAHŞI(Student), Bir yuvarlanmaya karşı koruyucu yapının (YKEY) performansının sonlu elemanlar analizi, tasarım optimizasyonu ve fiziksel testler ile korelasyonu
2019	Karpat F., Postgraduate, H.ÇETİN(Student), An investigation of the effects of shock absorber valve parameters on damping force used for a heavy commercial vehicle
2018	KARPAT F., Postgraduate, M.Yahşi(Student), Finite element analysis, design optimization and correlation with physical tests of a rollover protective structure (ROPS) performance
2018	KARPAT F., Postgraduate, H.KARAMAN(Student), Structural analysis of dental implants
2018	KARPAT F., Postgraduate, B.TURHAN(Student), Comparison of traditional plastic parts welding methods with laser welding methods in automotive lighting products.
2018	KARPAT F., Postgraduate, A.KUNDİ(Student), Spur gear crack analysis using finite element method
2017	KARPAT F., Postgraduate, S.SEZER(Student), Chain design and modelling of inclined power-free conveyors
2017	KARPAT F., Postgraduate, E.ŞENOCAK(Student), Stress analysis of internal spur gears generated with pinion type cutters
2016	KARPAT F., Postgraduate, M.TÜFEKÇİ(Student), Hinge modular design, optimization and production prototype for light commercial vehicle doors
2015	KARPAT F., Postgraduate, O.DOĞAN(Student), Designing a high torque capacity durable clutch for new generation tractors
2013	KARPAT F., Postgraduate, E.ÖZKAN(Student), Design and optimization of pressure tube flow channel in industrial dampers
2013	KARPAT F., Postgraduate, B.ENGİN(Student), The analyses of internal gear mechanism

Designed Lessons

Doctorate

2015 - 2016	Karpat F., TEKNOLOJİK İNOVASYON YÖNETİMİ
2014 - 2015	Karpat F., MÜHENDİSLİK TASARIMINDA KARAR ANALİZİ

Postgraduate

2013 - 2014 Karpat F., MAKİNE ELEMANLARININ SAYISAL ANALİZİ
2013 - 2014 Karpat F., SÜRDÜRÜLEBİLİR TASARIM

Undergraduate

2011 - 2012 Karpat F., Sürdürülebilir Ürün Tasarımı
2011 - 2012 Karpat F., MİKRO SİSTEMLER
2011 - 2012 Karpat F., MİKRO SİSTEMLER
2011 - 2012 Karpat F., Sürdürülebilir Ürün Tasarımı

Research Infrastructure Information

January 2021 Kaya N., Karpat F., Yıldız A. R., Etemoğlu A. B., Bursa Uludağ Üniversitesi Eklemeli İmalat Uygulama ve Araştırma Merkezi

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A comprehensive study on the effects of printing parameters on the mechanical properties of PLA**
Turan M. K., Sabirli M. U., Bakirci A., Kartal E., KARPAT F.
RAPID PROTOTYPING JOURNAL, vol.31, no.1, pp.174-183, 2025 (SCI-Expanded)
- II. **Sustainable Energy Management in Electric Vehicles Through a Fuzzy Logic-Based Strategy**
Savran E., Karpat E., Karpat F.
SUSTAINABILITY, vol.17, no.1, pp.1-17, 2025 (SCI-Expanded)
- III. **Investigation of infectious droplet dispersion in a hospital examination room cooled by split-type air conditioner**
Yüce B. E., Kalay O. C., KARPAT F., ALEMDAR A., TEMEL Ş. G., Dilektaşlı A. G., Başkan E. B., ÖZAKIN C., COŞKUN B.
Journal of Environmental Health Science and Engineering, vol.22, no.2, pp.471-482, 2024 (SCI-Expanded)
- IV. **GA and WOA-Based Optimization for Electric Powertrain Efficiency**
Savran E., Karpat E., Karpat F.
INTERNATIONAL JOURNAL OF SIMULATION MODELLING, vol.23, no.4, pp.599-610, 2024 (SCI-Expanded)
- V. **A comparative experimental research on the diagnosis of tooth root cracks in asymmetric spur gear pairs with a one-dimensional convolutional neural network**
Kalay O. C., KARPAT F.
Mechanism and Machine Theory, vol.201, 2024 (SCI-Expanded)
- VI. **Synthetic data generation using Copula model and driving behavior analysis**
Savran E., Karpat F.
AIN SHAMS ENGINEERING JOURNAL, vol.1, no.1, pp.12-22, 2024 (SCI-Expanded)
- VII. **Numerical and experimental investigation of the effect of heat input on weld bead geometry and stresses in laser welding**
TURAN M., YÜCE C., KARPAT F.
Materialprüfung/Materials Testing, vol.66, no.9, pp.1463-1474, 2024 (SCI-Expanded)
- VIII. **Energy-Efficient Anomaly Detection and Chaoticity in Electric Vehicle Driving Behavior**
Savran E., KARPAT E., KARPAT F.
SENSORS, no.17, 2024 (SCI-Expanded)
- IX. **Fuel Cell Electric Vehicle Hydrogen Consumption and Battery Cycle Optimization Using Bald Eagle Search Algorithm**
Savran E., KARPAT E., KARPAT F.
APPLIED SCIENCES-BASEL, no.17, 2024 (SCI-Expanded)
- X. **MODELLING AND INVESTIGATION OF A DRIVER SEAT SUSPENSION WITH NEGATIVE STIFFNESS STRUCTURE**

Turan M. K., Topcu E., KARPAT F.

INTERNATIONAL JOURNAL OF SIMULATION MODELLING, vol.23, no.2, pp.275-286, 2024 (SCI-Expanded)

- XI. **Impact performance of unconventional trigger holes**
Turan M. K., Ensarioglu C., Bakirci A., Karpata F.
MATERIALS TESTING, vol.66, no.3, pp.389-396, 2024 (SCI-Expanded)
- XII. **Effects of tooth root cracks on vibration and dynamic transmission error responses of asymmetric gears: A comparative study**
Kalay O. C., Dogan O., Yuce C., Karpata F.
MECHANICS BASED DESIGN OF STRUCTURES AND MACHINES, vol.52, no.5, pp.2569-2604, 2024 (SCI-Expanded)
- XIII. **Multi-response optimization for laser transmission welding of PMMA to ABS using Taguchi-based TOPSIS method**
Kucukoglu A., YUCE C., Sozer I. E., KARPAT F.
Advances in Mechanical Engineering, vol.15, no.8, 2023 (SCI-Expanded)
- XIV. **Design and analysis of lattice structure applied humerus semi-prosthesis**
Savran E., Kalay O. C., Alp N. B., KARPAT F.
MATERIALS TESTING, vol.65, no.7, pp.1039-1055, 2023 (SCI-Expanded)
- XV. **A One-Dimensional Convolutional Neural Network-Based Method for Diagnosis of Tooth Root Cracks in Asymmetric Spur Gear Pairs**
Kalay O. C., Karpata E., Dirik A. E., Karpata F.
MACHINES, vol.11, no.4, 2023 (SCI-Expanded)
- XVI. **Influence of tooth root cracks on the mesh stiffness of asymmetric spur gear pair with different backup ratios**
Dogan O., Kalay O. C., KARPAT F.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, vol.237, no.3, pp.717-731, 2023 (SCI-Expanded)
- XVII. **Fatigue performances of helicopter gears**
Kalay O. C., Yuce C., Dogan O., Yilmaz T. G., Karpata E., Kopmaz O., Karpata F.
MATERIALS TESTING, vol.65, no.1, pp.52-62, 2023 (SCI-Expanded)
- XVIII. **A Numerical Analysis of Hybrid Spur Gears with Asymmetric Teeth: Stress and Dynamic Behavior**
YILMAZ T. G., KARADERE G., KARPAT F.
MACHINES, vol.10, no.11, 2022 (SCI-Expanded)
- XIX. **Effects of asymmetric tooth profile on single-tooth stiffness of polymer gears**
Yuce C., Dogan O., KARPAT F.
MATERIALS TESTING, vol.64, no.4, pp.513-523, 2022 (SCI-Expanded)
- XX. **A numerical investigation on the hybrid spur gears: Stress and dynamic analysis**
Yilmaz T. G., Dogan O., Karpata F.
Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, vol.236, no.1, pp.354-369, 2022 (SCI-Expanded)
- XXI. **A Comparative 3D Finite Element Computational Study of Stress Distribution and Stress Transfer in Small-Diameter Conical Dental Implants**
Kalay O. C., Karaman H., KARPAT F., Dogan O., YUCE C., KARPAT E., Dhanasekaran L., Khandaker M.
TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.28, no.6, pp.2045-2054, 2021 (SCI-Expanded)
- XXII. **Effect of the cooling process on the mechanical properties and microstructural behavior of extruded AZ31 and AM50 Mg alloys**
Kurtulus E., Sapmaz I., Karpata F.
Materialpruefung/Materials Testing, vol.63, no.7, pp.654-661, 2021 (SCI-Expanded)
- XXIII. **Effects of rim thickness and drive side pressure angle on gear tooth root stress and fatigue crack propagation life**
Dogan O., Yuce C., KARPAT F.
ENGINEERING FAILURE ANALYSIS, vol.122, 2021 (SCI-Expanded)
- XXIV. **A comparative experimental study on the impact strength of standard and asymmetric involute spur**

gears

Kalay O. C., Doğan O., YILMAZ T. G., Yüce C., KARPAT F.
MEASUREMENT, vol.172, 2021 (SCI-Expanded)

- XXV. **Influences of gear design parameters on dynamic tooth loads and time-varying mesh stiffness of involute spur gears**
Doğan O., Karpap F., Kopmaz O., Ekwaro-Osire S.
SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.45, 2020 (SCI-Expanded)
- XXVI. **Laser-Induced Microgrooves Improve the Mechanical Responses of Cemented Implant Systems**
Khandaker M., Moussa A. A., Sama D. N., Safavinia F., Hazra S., Kalay O. C., KARPAT F., Clary E., Haleem A.
MICROMACHINES, vol.11, no.5, 2020 (SCI-Expanded)
- XXVII. **The Effect of Hamatum Curvature Angle on Carpal Tunnel Volumetry: A Mathematical Simulation Model**
Alp N. B., Kaleli T., Kalay O. C., KARPAT F., Akdag G., Macunluoglu A. C., Oral G. S.
COMPUTATIONAL AND MATHEMATICAL METHODS IN MEDICINE, vol.2020, 2020 (SCI-Expanded)
- XXVIII. **Understanding the causes behind coracoid graft osteolysis in latarjet procedure (finite element analysis and comparison of three fixation methods)**
Alp N. B., DOĞAN O., YILMAZ T. G., Kalay O. C., Moussa A. A., KARPAT F., Khandaker M., Akdag G.
ORTHOPAEDICS & TRAUMATOLOGY-SURGERY & RESEARCH, vol.106, no.1, pp.53-59, 2020 (SCI-Expanded)
- XXIX. **Experimental measurement and numerical validation of single tooth stiffness for involute spur gears**
KARPAT F., Yuce C., Dugan O.
MEASUREMENT, vol.150, 2020 (SCI-Expanded)
- XXX. **A comparative numerical study of forged bi-metal gears: Bending strength and dynamic response**
YILMAZ T. G., DOĞAN O., KARPAT F.
MECHANISM AND MACHINE THEORY, vol.141, pp.117-135, 2019 (SCI-Expanded)
- XXXI. **Investigations on the microstructure and mechanical properties of laser welded dissimilar galvanized steel-aluminum joints**
Yuce C., KARPAT F., YAVUZ N.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.104, no.5-8, pp.2693-2704, 2019 (SCI-Expanded)
- XXXII. **Crack detection for spur gears with asymmetric teeth based on the dynamic transmission error**
DOĞAN O., KARPAT F.
MECHANISM AND MACHINE THEORY, vol.133, pp.417-431, 2019 (SCI-Expanded)
- XXXIII. **Design and development of tractor clutch using combined field and bench tests**
KARPAT F., Yuce C., DOĞAN O., Genc M. O., KAYA N.
TRANSACTIONS OF THE CANADIAN SOCIETY FOR MECHANICAL ENGINEERING, vol.42, no.2, pp.136-146, 2018 (SCI-Expanded)
- XXXIV. **Stress analysis of involute spur gears with different parameters by finite element and graphical method**
DOĞAN O., YILMAZ T. G., KARPAT F.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.33, no.4, pp.1493-1504, 2018 (SCI-Expanded)
- XXXV. **A Study of Lightweight Door Hinges of Commercial Vehicles Using Aluminum Instead of Steel for Sustainable Transportation**
YILMAZ T. G., Tufekci M., KARPAT F.
SUSTAINABILITY, vol.9, no.10, 2017 (SCI-Expanded)
- XXXVI. **An improved numerical method for the mesh stiffness calculation of spur gears with asymmetric teeth on dynamic load analysis**
KARPAT F., DOĞAN O., Yuce C., Ekwaro-Osire S.
ADVANCES IN MECHANICAL ENGINEERING, vol.9, no.8, 2017 (SCI-Expanded)
- XXXVII. **The Effect of Process Parameters on the Microstructure and Mechanical Performance of Fiber Laser-Welded AA5182 Aluminium Alloys**

- Yuce C., Tutar M., KARPAT F., YAVUZ N., Tekin G.
STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING, vol.63, no.9, pp.510-518, 2017 (SCI-Expanded)
- XXXVIII. **The Optimization of Process Parameters and Microstructural Characterization of Fiber Laser Welded Dissimilar HSLA and MART Steel Joints**
Yuce C., Tutar M., KARPAT F., YAVUZ N.
METALS, vol.6, no.10, 2016 (SCI-Expanded)
- XXXIX. **A novel design procedure for tractor clutch fingers by using optimization and response surface methods**
DOĞAN O., KARPAT F., Yuce C., KAYA N., YAVUZ N., Sen H.
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.30, no.6, pp.2615-2625, 2016 (SCI-Expanded)
- XL. **A Case Study: Designing for Sustainability and Reliability in an Automotive Seat Structure**
Yuce C., KARPAT F., YAVUZ N., Sendeniz G.
SUSTAINABILITY, vol.6, no.7, pp.4608-4631, 2014 (SCI-Expanded)
- XLI. **A Virtual Tool for Minimum Cost Design of a Wind Turbine Tower with Ring Stiffeners**
KARPAT F.
ENERGIES, vol.6, no.8, pp.3822-3840, 2013 (SCI-Expanded)
- XLII. **Dynamic analysis of involute spur gears with asymmetric teeth**
KARPAT F., Ekwaro-Osire S., ÇAVDAR K., Babalik F. C.
INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, vol.50, no.12, pp.1598-1610, 2008 (SCI-Expanded)
- XLIII. **Probabilistic analysis of MEMS asymmetric gear tooth**
KARPAT F., Ekwaro-Osire S., Khandaker M. P. H.
JOURNAL OF MECHANICAL DESIGN, vol.130, no.4, 2008 (SCI-Expanded)
- XLIV. **Experimental studies on galling onset in OCTG connections: A review**
Ekwaro-Osire S., KARPAT F.
JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME, vol.130, no.1, 2008 (SCI-Expanded)
- XLV. **Influence of Tip Relief Modification on the Wear of Spur Gears with Asymmetric Teeth**
KARPAT F., Ekwaro-Osire S.
TRIBOLOGY TRANSACTIONS, vol.51, no.5, pp.581-588, 2008 (SCI-Expanded)
- XLVI. **An alternative mechanism of non-contact anterior cruciate ligament injury during jump-landing: In-vitro simulation**
Hashemi J., Chandrashekar N., Jang T., KARPAT F., Oseto M., Ekwaro-Osire S.
EXPERIMENTAL MECHANICS, vol.47, no.3, pp.347-354, 2007 (SCI-Expanded)
- XLVII. **Computer aided analysis of bending strength of involute spur gears with asymmetric profile**
Cavdar K., Karpat F., Babalik F.
Journal of Mechanical Design, Transactions of the ASME, vol.127, no.3, pp.477-484, 2005 (SCI-Expanded)

Articles Published in Other Journals

- I. **A Novel Method for Tooth Bending Stress Calculation of Gears with Asymmetric Teeth**
Doğan O., Yuce C., Karpat F.
Osmaniye Korkut Ata Üniversitesi Fen Bilimleri Enstitüsü Dergisi (Online), vol.7, no.5, pp.2139-2157, 2024 (Peer-Reviewed Journal)
- II. **Anti-Roll Bar Optimization of an Urban Electric Bus**
Alpar M., Savran E., Karpat F.
Archives of Advanced Engineering Science, vol.1, no.1, pp.1-8, 2024 (Peer-Reviewed Journal)
- III. **A Review on Recent Advances and Challenges of Fuel Cell Electric Vehicles**
Savran E., BÜYÜK M., Karpat F.
Osmaniye Korkut Ata Üniversitesi Fen Bilimleri Enstitüsü Dergisi (Online), vol.7, no.1, pp.424-439, 2024 (Peer-Reviewed Journal)

- IV. **32 Feet Uzunluęunda Bir Otobüsün Maksimum Yük Altındaki Durumunun Farklı Aks Türlerine Göre Sonlu Elemanlar Yöntemiyle İncelenmesi**
KARPAT F., Turan M. K., Meriç G., Sevgi Y.
International Journal of Advanced Natural Sciences and Engineering Researches (IJANSER), vol.7, no.11, pp.420-424, 2023 (Peer-Reviewed Journal)
- V. **Elektrikli Bir Otobüsün Maksimum Yük Altındaki Davranışı Üzerine Nümerik Bir İnceleme**
KARPAT F., Turan M. K., Meriç G., Sevgi Y.
International Journal of Advanced Natural Sciences and Engineering Researches (IJANSER), vol.7, no.11, pp.495-500, 2023 (Peer-Reviewed Journal)
- VI. **BİR OTOMOBİL BRAKET TASARIMININ ANALİZİ ve DEęERLENDİRMEİ**
Savran E., Vargelci S., Catenaro L., Karpaz F.
Uludaę University Journal of The Faculty of Engineering, vol.28, no.2, pp.493-506, 2023 (Peer-Reviewed Journal)
- VII. **A NUMERICAL INVESTIGATION ON THE STRESS-BALANCED SPUR GEAR PAIRS**
Yılmaz T., Karadere G., Karpaz F.
Uludaę Üniversitesi Mühendislik Fakültesi Dergisi, vol.28, no.1, pp.1-10, 2023 (Peer-Reviewed Journal)
- VIII. **Mechanical Evaluation of Road Durability Test in Battery Electric Buses**
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9th International Automotive Technologies Congress-OTKON 2018, Bursa, Turkey, 7 - 08 May 2018, pp.731-736
- L. **IMPROVING BENDING LOAD CAPACITY OF SPUR GEARS WITH INCREASING ROOT RADIUS**
Kalay O. C., Dođan O., Karpata F.
XI INTERNATIONAL CONFERENCE FOR YOUNG RESEARCHERS, Sofija, Bulgaria, 14 - 17 March 2018, vol.1, pp.3-6
- LI. **Experimental and Numerical Analysis of Electrospun Fiber Anchored Silicone Intervertebral Disc**
Tummala S., Dođan O., Karpata F., Khandaker M.
ORS 2018 ANNUAL MEETING, California, United States Of America, 10 - 13 March 2018, vol.1, pp.81
- LII. **IMPROVEMENT OF LOADING CAPACITY OF INTERNAL SPUR GEAR WITH USING ASYMMETRIC TROCHOID PROFILE**
YILMAZ T. G., DOĐAN O., YUCE C., KARPAT F.
ASME International Mechanical Engineering Congress and Exposition, Tama, Japan, 3 - 09 November 2017
- LIII. **EFFECT OF MICRO-GROOVING ON THE STRESS SHIELDING OF TITANIUM: EXPERIMENTAL AND NUMERICAL INVESTIGATIONS**
Jamadagni H. G., Karaman H., KARPAT F., Williams W., Dhanasekaran L., Khandaker M.
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- LIV. **EVALUATION OF BIOMECHANICAL PERFORMANCES OF ELECTROSPUN FIBER ANCHORED SILICONE DISC AS AN INTERVERTEBRAL DISC IMPLANT**
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- LV. **INFLUENCE OF HEAT INPUT ON MECHANICAL PROPERTIES AND MICROSTRUCTURE OF LASER WELDED DISSIMILAR GALVANIZED STEEL-ALUMINUM JOINTS**
Yuce C., KARPAT F., YAVUZ N.
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- LVI. **Shape Optimization of an Overdesigned Chain Link by Using Design of Experiment and Grapical Optimization**
Karpata F., Dođan O., Yüce C.
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- LVII. **Prototype Conveyor Line Monitoring System**
Yüce C., Yılmaz T. G., Karpata F., Yavuz N.

- ISERD, 218th International Conference on Recent Innovations in Engineering and Technology (ICRIET), Florence, Italy, 21 - 22 July 2017
- LVIII. **An Alternative Method to Specify Undercut Point of Involute Spur Gear with Low Number Teeth**
Yılmaz T. G., Yüce C., Karpaz F.
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- LIX. **The Optimization of Process Parameters for Laser Welded Galvanized Automobile Steel Sheets Using A Taguchi Method**
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- LX. **Stress Analysis of Thin Rimmed Spur Gear with Asymmetric Trochoid**
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- LXI. **SHAPE OPTIMIZATION OF AN OVERDESIGNED CHAIN LINK BY USING DESIGN OF EXPERIMENT AND GRAPHICAL OPTIMIZATION**
Karpaz F., Doğan O., Yüce C.
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- LXII. **THE JOINING TECHNIQUES FOR THERMOPLASTICS MATERIALS IN AUTOMOTIVE INDUSTRIES: A COMPREHENSIVE LITERATURE REVIEW**
Kucukoglu A., KARPAT F.
ASME International Mechanical Engineering Congress and Exposition (IMECE2016), Arizona, United States Of America, 11 - 17 November 2016
- LXIII. **Effect of fiber laser welding parameters on the penetration depth and weld bead geometry**
Yüce C., Karpaz F., Yavuz N., Tekin G., Çapan N.
1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, 26 - 28 October 2016
- LXIV. **Entegre Bir Dişli Çark Tasarım Metodolojisinin Geliştirilmesi**
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8. OTOMOTİV TEKNOLOJİLERİ KONGRESİ, Bursa, Turkey, 23 - 24 May 2016
- LXV. **ELECTROMAGNETIC COMPATIBILITY (EMC) IN WIND TURBINES**
KARPAT E., KARPAT F.
International Conference on Recent Innovations in Engineering and Technology (ICRIET), Barcelona, Spain, 12 - 13 April 2016
- LXVI. **SHAPE OPTIMIZATION OF CLUTCH CUSHION DISC USING DIFFERENTIAL EVOLUTION METHOD**
KAYA N., Kartal S., Cakmak T., KARPAT F., Karaduman A.
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- LXVII. **DESIGN AND ANALYSIS OF INTERNAL GEARS WITH DIFFERENT RIM THICKNESS AND SHAPES**
KARPAT F., Ekwaro-Osire S., YILMAZ T. G., Dogan O., Yuce C.
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- LXVIII. **OPTIMUM DESIGN OF TRACTOR CLUTCH PTO FINGER BY USING TOPOLOGY AND SHAPE OPTIMIZATION**
Dogan O., KARPAT F., KAYA N., Yuce C., Genc M. O., Yavuz N.
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- LXIX. **Otomobil Kapı Mentşesinin Bilgisayar Destekli Tasarımı Analizi ve Doğrulanması**
TÜFEKÇİ M., YILMAZ T. G., YÜCE C., DOĞAN O., KARPAT F.
XIII. Otomotiv ve Yan Sanayi Sempozyumu ve Sergisi, İstanbul, Turkey, 13 - 14 November 2015, pp.33-41

- LXX. **Optimum Design of Tractor Clutch PTO Finger Using Topology and Shape Optimization**
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- LXXI. **Design Optimization of Aluminum Hinge Parts for Lightweight Vehicles Performance Durability and Manufacturability**
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- LXXII. **A Review on advanced joining techniques of multi material part manufacturing for automotive industry**
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- LXXIII. **Effect of Rim Thickness on Tooth Root Stress and Mesh Stiffness of Internal Gears**
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- LXXV. **A NOVEL METHOD FOR CALCULATION GEAR TOOTH STIFFNESS FOR DYNAMIC ANALYSIS OF SPUR GEARS WITH ASYMMETRIC TEETH**
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- LXXVI. **THE INVESTIGATION OF STRESS DISTRIBUTION ON THE TRACTOR CLUTCH FINGER MECHANISM BY USING FINITE ELEMENT METHOD**
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- LXXVII. **EXPERIMENTAL VERIFICATION AND FINITE ELEMENT ANALYSIS OF AUTOMOTIVE DOOR HINGE**
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- LXXVIII. **Traktör Debriyajı Parmak Mekanizmasının Analizi**
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- LXXX. **Yolcu Koltukları İçin Kompozit Oturak Bağlantı Parçasının Geliştirilmesi**
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- LXXXI. **A Virtual Tool for Wear Simulation of Plastic Gear Pairs**
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- LXXXIII. **A VIRTUAL TOOL FOR WEAR SIMULATION OF PLASTIC GEAR PAIRS**
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- LXXXIV. **Yolcu Koltuğunda Hafifletme Üzerine Bir Çalışma**
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- LXXXVI. **Uncertainty Consideration in Multibody Dynamic Analysis of Helical-Gear-Pairs**
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- LXXXVIII. **EFFICIENCY OF THE HIGH CONTACT RATIO INVOLUTE SPUR GEARS WITH ASYMMETRIC TEETH**
KARPAT F., Ekwaro-Osire S.
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- LXXXIX. **Rüzgar Türbini Test Düzeneği Tasarımı**
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- XC.I. **A Weibull failure theory for contact loading in gears with asymmetric teeth**
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- XCIV. **Wear of Involute Spur Gears With Asymmetric Teeth Under Dynamic Loading**
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- XC.V. **Influence Of Tip Relief Modification On The Wear Of Spur Gears With Asymmetric Teeth**
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Society of Tribologists and Lubrication Engineers (STLE)'xxs 2007 Annual Meeting Exhibition, Pennsylvania, United States Of America, 6 - 10 May 2007, pp.1-8
- XC.VI. **Asimetrik Evolvent Diş Sahip Düz Dişli Çarkların Bilgisayar Destekli Parametrik Analizi**
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- TİMAK Tasarım İmalat Analiz Kongresi konferansı, Balıkesir, Turkey, 26 - 27 April 2006, pp.65-76
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- C. **Asansör Kabin Taşıyıcıların Sonlu Elemanlar Yöntemi Yardımıyla Analizi**
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- CI. **Computer aided analysis of involute spur gears with asymmetric teeth**
Karpas F., Cavdar K., Babalık F.
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- CII. **Dişli Çark Mekanizmalarının Bilgisayar Yardımıyla Boyutlandırılması**
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Supported Projects

2022 - Continues	Araç Yapısal Parçalarında Kullanılan Farklı Türdeki Yüksek Mukavemetli Çeliklerin Lazer Kaynak ile Birleştirilmesinde Proses Parametre Etkilerinin İncelenmesi, Project Supported by Higher Education Institutions
2020 - 2028	Yeni Nesil Elektrikli Araçlar Odaklı 2244 Doktora Programı, TUBITAK Project
2020 - 2027	Helikopter Dişli Kutularında Kullanılabilecek Hibrit Dişli Çarkların Prototip İmalatı ve Optimizasyonu, TUBITAK Project
2022 - 2026	TÜBİTAK 1004 (Mükemmeliyet Merkezi Destek Programı) Elektrikli Taşıtlar İçin Batarya Teknolojileri Araştırma ve Geliştirme Platformu (BATEG), TUBITAK Project
2018 - 2025	Planet dişli mekanizmaları için sayısal ve deneysel yöntemler kullanılarak yeni bir dişli çark aşınma modelinin geliştirilmesi., TUBITAK Project
2023 - 2024	OTOBÜS DİRENGENLİĞİNİN NÜMERİK OLARAK İNCELENMESİ , Company
2023 - 2024	Lightening the BRT Body Carcass by Performing Finite Element Analysis, TUBITAK Project
2022 - 2024	SALINCAK KOLU TASARIMI ve YAPISAL OPTİMİZASYONU, TUBITAK Project
2023 - 2023	Sürücü Koltukları İçin Tasarlanmış Adaptif Bir Negatif Rijitlik Mekanizmasının Deneysel Olarak İncelenmesi, TUBITAK Project
2022 - 2023	Asimetrik Profilli Düz Dişli Çarklarda Diş Dibi Çatlak Hasarının Tespiti İçin Makine Öğrenmesi Esaslı Güvenilir Bir Durum İzleme Yönteminin Geliştirilmesi, TUBITAK Project
2022 - 2023	Yüksek Güvenirlğe Sahip Otopark Sistemlerinin Geliştirilmesi, Kobi
2021 - 2023	Standart ve Asimetrik Dişli Çarklarda Diş Dibi Çatlak Hasarı ve Derecesinin Makine Öğrenmesi ile Deneysel Olarak Tespiti, Project Supported by Higher Education Institutions
2020 - 2022	ERMAKSAN VE BURSA ULUDAĞ ÜNİVERSİTESİ ARASINDAKİ YÜKSEK TEKNOLOJİ ODAKLI SANAYİ DOKTORA PROJESİ, TUBITAK Project
2020 - 2022	Döküm ve ekstrüzyon ürünlerinin birleştirilmesi ile yüksek performanslı alüminyum taşıyıcı alt travers geliştirilmesi, TUBITAK Project

2019 - 2021	NEGATİF RİJİTLİĞE SAHİP KOLTUK SÜSPANSİYON SİSTEMİNİN TASARIMI VE OPTİMİZASYONU, TUBITAK Project
2019 - 2021	Sementli total diz protezi (TKR) implantının mekanik performansının iyileştirilmesinde lazer kaynaklı mikro yiv etkilerinin deneysel olarak incelenmesi, Other International Funding Programs
2017 - 2021	Aks Sistemlerinin Dinamik Simülasyonunun Yapılması ve Simülasyonun Doğrulanması için Test Düzenine Kurulması, TUBITAK Project
2019 - 2020	Elektrikli Araçlar için Alüminyum Alaşımli Motor Beşiği Geliştirilmesi, TUBITAK Project
2018 - 2020	Standart Ve Asimetrik Dişlilerin Darbe Dayanımlarının Deneysel Olarak İncelenmesi, TUBITAK Project
2018 - 2020	Standart ve Standart Olmayan Dişli Çarklarda Diş Dibi Çatlaklarının Erken Belirlenmesi ve İzlenmesi İçin Sayısal Metotların Geliştirilmesi, Project Supported by Other Private Institutions
2018 - 2020	STANDART VE STANDART OLMAYAN DIŞLİ ÇARKLARDA ÇATLAKLARIN ERKEN BELİRLENMESİ VE İZLENMESİ İÇİN SAYISAL METOT GELİŞTİRİLMESİ, Company
2018 - 2020	Uludağ Üniversitesi Makine Topluluğu HİDROMAKİT İsimli Hidrojen Yakıtlı Aracının Yakıt Pili Tahrik Sistemi, Project Supported by Higher Education Institutions
2016 - 2020	Uludağ Üniversitesi Makine Topluluğu Elektrikli Aracı İçin Kompozit Parça Üretim Atölyesi Kurulumu, Project Supported by Higher Education Institutions
2016 - 2019	MEV-2016-097 "Farklı Tasarım ve Kaplamalara Sahip Diş İmplantlarının Ömürlerinin Tespiti için Teorik ve Deneysel Metotların Geliştirilmesi", Other International Funding Programs
2015 - 2018	Havai Konveyör Hatlarına Özgü Bir İyileştirme ve Bakım Modelinin Geliştirilmesi, TUBITAK Project
2015 - 2018	Evolvent Dişli Çarkların Darbe Yüklerine Dayanımlarının Deneysel Olarak İncelenmesi, Project Supported by Higher Education Institutions
2016 - 2017	Yüksek Mukavemetli Çelikler ile Alüminyum Alaşımlarının Lazer Kaynağı ile Birleştirilmesinde Kaynak Parametrelerinin Bağlantı Üzerine Etkilerinin Deneysel Olarak İncelenmesi, Project Supported by Higher Education Institutions
2014 - 2017	Yüksek Performanslı Asimetrik Düz Dişlilerin Özel Yüzey Tasarım ve Analiz Metodlarının Geliştirilmesi, Project Supported by Defense Industry
2014 - 2017	Kavrama Metalik Disk Elemanının Pedal Konforu ve Yorulma Dayanımı Açısından Evrimsel Algoritma ile Tasarım Optimizasyonu ve Prototip Üretimi, Industrial Thesis Project
2014 - 2017	400 ton/gün kapasiteli akışkan yataklı çamur yakma ve enerji elde etme tesisi yapım işi teknik danışmanlık ve araştırma-geliştirme, Project Supported by Other Official Institutions
2015 - 2016	0635 STZ 2014 Hafif Ticari Araç Kapıları İçin Modüler Menteşe Tasarımı Optimizasyonu ve Prototip İmalatı Projesi, Industrial Thesis Project
2015 - 2016	Hafif Ticari Araç Kapıları İçin Modüler Menteşe Tasarımı Optimizasyonu ve Prototip İmalatı Projesi, Industrial Thesis Project
2014 - 2016	0456 STZ 2013 2 Yeni Nesil Traktörler için Yüksek Tork Aktarımına Sahip Uzun Ömürlü Debriyaj Tasarımı ve Prototip İmalatı, Industrial Thesis Project
2015 - 2015	44kw GÜCE SAHİP FONKSİYONEL BİR ÇİFTLİK ARACININ TASARIMI VE PROTOTİP İMALATI, KOSGEB
2013 - 2014	Yeni Nesil Ticari Araçlar İçin Hafifletilmiş Yolcu Koltuğu Tasarımı ve Prototip İmalatı, Industrial Thesis Project
2010 - 2012	Büyük ölçekli portaldan hareketli CNC kontrollü freze tezgahının yapısal tasarımı ve prototip imalatı T C Sanayi ve Ticaret Bakanlığı SANTEZ Projesi, Industrial Thesis Project
2010 - 2012	0575.STZ.2010-1-SANTEZ, Industrial Thesis Project
2010 - 2010	Rüzgar Türbini Dişli kutularında Kullanılabilecek Asimetrik Dişe Sahip Dişli Çarkların Deneysel Olarak İncelenmesi, Other International Funding Programs

2024	Karpat F., Yılmaz T., Çayır A. F., Hassan Mohamed M., Şener F. B., MEKANUM TEKERLEKLİ PLATFORMA SAHİP OTONOM PARK SİSTEMİ, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Recourse Number: 2024/008026 , Standard Registration, 2024
2024	Karpat F., Koç E., HELİKOPTERLER İÇİN KIZAK TİPİ İNİŞ TAKIMI, Patent, CHAPTER A Human Needs, The Invention Recourse Number: 2024/017241 , Standard Registration, 2024
2024	Karpat F., Yılmaz T., Çayır A. F., Mohamed M. H., Şener F. B., AUTONOMOUS PARKING SYSTEM WITH MECANUM WHEELED PLATFORM, Patent, CHAPTER A Human Needs, The Invention Recourse Number: PCT/TR2024/050916 , Standard Registration, 2024
2022	Karpat F., Turan M. K., Kartal E., Aytimur N., Eyiçalış A., Emetli M., Akbay Y. A., DISPOSABLE STERILE SKIN STAPLER, Patent, CHAPTER A Human Needs, The Invention Registration Number: PCT/TR2021/051079 , Standard Registration, 2022
2020	Karpat F., Akbay Y. A., Emetli M., Eyiçalış A., Aytimur N., Turan M. K., Kartal E., TEK KULLANIMLIK STERİL CİLT ZIMBASI, Patent, CHAPTER A Human Needs, The Invention Recourse Number: PCT/2020/16891 , Standard Registration, 2020

Activities in Scientific Journals

2018 - Continues	ADVANCES IN MECHANICAL ENGINEERING, Committee Member
2021 - 2022	the Transdisciplinary Journal of Engineering & Science (TJES), Special Issue Editor

Memberships / Tasks in Scientific Organizations

2019 - Continues	ASME (American Society of Mechanical Engineers) , Member
2019 - Continues	Orthopaedic Research Society, Member
2019 - Continues	The European Society of Biomechanics (ESB), Member
1999 - Continues	Makina Mühendisleri Odası, Member

Peer Reviews in Scientific Publications

July 2023	MECHANISM AND MACHINE THEORY, SCI Journal
June 2023	MECHANISM AND MACHINE THEORY, SCI Journal
May 2023	MECHANISM AND MACHINE THEORY, SCI Journal
December 2022	MATHEMATICAL PROBLEMS IN ENGINEERING, SCI Journal
December 2022	MATERIALS, SCI Journal
December 2022	TRANSACTIONS OF THE CANADIAN SOCIETY FOR MECHANICAL ENGINEERING, SCI Journal
December 2022	METALS, SCI Journal
December 2022	Science and Technology of Nuclear Installations, Other Indexed Journal
November 2022	MATERIALS, SCI Journal
November 2022	Bioengineering, Other Indexed Journal
August 2022	JOURNAL OF COMPUTATIONAL DESIGN AND ENGINEERING, SCI Journal
June 2022	ELECTRONICS, Journal Indexed in SCIE
June 2022	STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING, SCI Journal
June 2022	MECHANICAL SYSTEMS AND SIGNAL PROCESSING, SCI Journal
June 2022	SUSTAINABILITY, SCI Journal
May 2022	ENTROPY, SCI Journal
May 2022	ELECTRONICS, SCI Journal
May 2022	MECHANICAL SYSTEMS AND SIGNAL PROCESSING, SCI Journal

May 2022	MECHANICAL SYSTEMS AND SIGNAL PROCESSING, SCI Journal
April 2022	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, Journal Indexed in SCIE
April 2022	INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, SCI Journal
April 2022	MECHANICS BASED DESIGN OF STRUCTURES AND MACHINES, SCI Journal
April 2022	ENERGIES, SCI Journal
April 2022	MECHANICAL SYSTEMS AND SIGNAL PROCESSING, SCI Journal
March 2022	MECHANISM AND MACHINE THEORY, SCI Journal
February 2022	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, SCI Journal
February 2022	AGRICULTURE-BASEL, SCI Journal
February 2022	INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, SCI Journal
January 2022	SHOCK AND VIBRATION, SCI Journal
January 2022	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, SCI Journal
January 2022	transdisciplinary journal of engineering and science, Other Indexed Journal
January 2022	ADVANCES IN MECHANICAL ENGINEERING, SCI Journal
January 2022	COMPUTERS & INDUSTRIAL ENGINEERING, Journal Indexed in SCIE
January 2022	MECHANISM AND MACHINE THEORY, SCI Journal
December 2021	TEHNICKI VJESNIK-TECHNICAL GAZETTE, Journal Indexed in SCIE
December 2021	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, SCI Journal
December 2021	MECHANISM AND MACHINE THEORY, SCI Journal
December 2021	MEASUREMENT, SCI Journal
December 2021	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, SCI Journal
December 2021	MEASUREMENT, SCI Journal
December 2021	ADVANCES IN MECHANICAL ENGINEERING, Journal Indexed in SCIE
December 2021	AGRICULTURE-BASEL, SCI Journal
December 2021	LUBRICATION SCIENCE, Journal Indexed in SCIE
December 2021	MECHANICAL SYSTEMS AND SIGNAL PROCESSING, SCI Journal
December 2021	ADVANCES IN MECHANICAL ENGINEERING, Journal Indexed in SCIE
December 2021	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, SCI Journal
December 2021	WAVES IN RANDOM AND COMPLEX MEDIA, SCI Journal
November 2021	ADVANCES IN MECHANICAL ENGINEERING, Journal Indexed in SCIE
November 2021	ENGINEERING FAILURE ANALYSIS, SCI Journal
November 2021	ADVANCES IN MECHANICAL ENGINEERING, Journal Indexed in SCIE
November 2021	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, Journal Indexed in SCIE
November 2021	SCIENCE AND TECHNOLOGY OF NUCLEAR INSTALLATIONS, Journal Indexed in SCIE
October 2021	ADVANCES IN MECHANICAL ENGINEERING, SCI Journal
October 2021	JOURNAL OF COMPUTATIONAL DESIGN AND ENGINEERING, Other Indexed Journal
October 2021	MEASUREMENT, SCI Journal
October 2021	THEORETICAL AND APPLIED FRACTURE MECHANICS, Journal Indexed in SCIE
October 2021	MECHANICAL SYSTEMS AND SIGNAL PROCESSING, SCI Journal
October 2021	ADVANCES IN MATERIALS SCIENCE AND ENGINEERING, SCI Journal
October 2021	FORSCHUNG IM INGENIEURWESEN-ENGINEERING RESEARCH, SCI Journal
September 2021	FORSCHUNG IM INGENIEURWESEN-ENGINEERING RESEARCH, SCI Journal
August 2021	INTERNATIONAL JOURNAL OF NON-LINEAR MECHANICS, SCI Journal

July 2021	ADVANCES IN MECHANICAL ENGINEERING, Journal Indexed in SCIE
July 2021	MECHANICS OF ADVANCED MATERIALS AND STRUCTURES, SCI Journal
July 2021	MEASUREMENT, SCI Journal
June 2021	ADVANCES IN MECHANICAL ENGINEERING, SCI Journal
June 2021	ADVANCES IN MECHANICAL ENGINEERING, Journal Indexed in SCIE
June 2021	MEASUREMENT, SCI Journal
June 2021	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, Journal Indexed in SCIE
June 2021	ADVANCES IN MECHANICAL ENGINEERING, SCI Journal
June 2021	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, Journal Indexed in SCIE
June 2021	AGMA 2021 Fall Technical Meeting, Conference Paper (Full Text)
May 2021	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART J-JOURNAL OF ENGINEERING TRIBOLOGY, Journal Indexed in SCIE
May 2021	ADVANCES IN MECHANICAL ENGINEERING, Journal Indexed in SCIE
May 2021	MECHANISM AND MACHINE THEORY, SCI Journal
May 2021	Uludağ Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, National Scientific Refreed Journal
May 2021	ENGINEERING FRACTURE MECHANICS, SCI Journal
May 2021	ADVANCES IN MECHANICAL ENGINEERING, Journal Indexed in SCIE
April 2021	MECHANISM AND MACHINE THEORY, SCI Journal
April 2021	INTERNATIONAL JOURNAL OF AEROSPACE ENGINEERING, Journal Indexed in SCIE
March 2021	MECHANISM AND MACHINE THEORY, SCI Journal
March 2021	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART J-JOURNAL OF ENGINEERING TRIBOLOGY, SCI Journal
March 2021	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, SCI Journal
March 2021	ADVANCES IN MECHANICAL ENGINEERING, Journal Indexed in SCIE
March 2021	INTERNATIONAL JOURNAL OF AEROSPACE ENGINEERING, Journal Indexed in SCIE
February 2021	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, Journal Indexed in SCIE
February 2021	MECHANISM AND MACHINE THEORY, SCI Journal
February 2021	APPLIED MATHEMATICAL MODELLING, Journal Indexed in SCIE
February 2021	MATHEMATICAL PROBLEMS IN ENGINEERING, Journal Indexed in SCIE
January 2021	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, Journal Indexed in SCIE
December 2020	Recent Patents on Engineering, Other Indexed Journal
December 2020	MECHANICAL SYSTEMS AND SIGNAL PROCESSING, SCI Journal
December 2020	APPLIED MATHEMATICAL MODELLING, SCI Journal
December 2020	JOURNAL OF BUILDING ENGINEERING, Journal Indexed in SCIE
December 2020	MECHANISM AND MACHINE THEORY, SCI Journal
December 2020	MECHANISM AND MACHINE THEORY, SCI Journal
December 2020	ADVANCES IN MECHANICAL ENGINEERING, Journal Indexed in SCIE
December 2020	MECHANISM AND MACHINE THEORY, SCI Journal
December 2020	TEHNICKI VJESNIK-TECHNICAL GAZETTE, Journal Indexed in SCIE
November 2020	MATHEMATICAL PROBLEMS IN ENGINEERING, Journal Indexed in SCIE
November 2020	MATHEMATICAL PROBLEMS IN ENGINEERING, Journal Indexed in SCIE
August 2020	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, Journal Indexed in SCIE
July 2020	MATERIALS RESEARCH-IBERO-AMERICAN JOURNAL OF MATERIALS, Journal Indexed in SCIE

July 2020	MECHANISM AND MACHINE THEORY, SCI Journal
May 2020	JOURNAL OF MECHANICAL DESIGN, SCI Journal
May 2020	LUBRICATION SCIENCE, Journal Indexed in SCIE
April 2020	INTERNATIONAL JOURNAL OF ACOUSTICS AND VIBRATION, SCI Journal
April 2020	JOURNAL OF TESTING AND EVALUATION, Journal Indexed in SCIE
March 2020	MECHANICAL SYSTEMS AND SIGNAL PROCESSING, SCI Journal
March 2020	MECHANISM AND MACHINE THEORY, SCI Journal
February 2020	INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, SCI Journal
February 2020	INTERNATIONAL JOURNAL OF SIMULATION MODELLING, Journal Indexed in SCIE
February 2020	JOURNAL OF MECHANICAL DESIGN, SCI Journal
January 2020	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, Journal Indexed in SCIE
January 2020	STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING, Journal Indexed in SCIE
December 2019	ADVANCES IN MECHANICAL ENGINEERING, Journal Indexed in SCIE
November 2019	MECHANISM AND MACHINE THEORY, SCI Journal
November 2019	ENGINEERING WITH COMPUTERS, Journal Indexed in SCIE
October 2019	MECHANISM AND MACHINE THEORY, SCI Journal
July 2019	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, Journal Indexed in SCIE
June 2019	MECHANISM AND MACHINE THEORY, SCI Journal
June 2018	SHOCK AND VIBRATION, Journal Indexed in SCIE
April 2018	MECHANISM AND MACHINE THEORY, SCI Journal
February 2017	MECHANISM AND MACHINE THEORY, SCI Journal
June 2012	International Journal Of Antennas And Propagation, Journal Indexed in SCIE

Scientific Project Refereeing

April 2022	TUBITAK Project, 1002 - Quick Support Program, Bursa Uludağ University, Turkey
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Scientific Consultations

2020 - 2020	Project Consultancy, Yeşilova Holding
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Tasks In Event Organizations

16 Eylül 2023	Karpat F., NDT Günleri IV, Workshop Organization, Bursa, Turkey
12 Mayıs 2023	Karpat F., the 2023 International Conference of Unmanned Aerial Systems and Aerospace, Scientific Congress, Toronto, Canada
22 Aralık 2022	Karpat F., The 13th Asia Conference on Mechanical and Aerospace Engineering (ACMAE 2022), Scientific Congress, Chengdu, China
19 Kasım 2022	Karpat F., NDT Günleri III, Workshop Organization, Bursa, Turkey
16 Mayıs 2022	Karpat F., R&B Innovation Expo Score International Virtual Conference, Scientific Congress, United States Of America
19 Kasım 2021	Karpat F., 12. KAYNAK TEKNOLOJİSİ ULUSAL KONGRE VE SERGİSİ, Scientific Congress, Ankara, Turkey
09 Ekim 2021	Karpat F., NDT GÜNLERİ - XII. KAYNAK KONGRESİNE GİDERKEN ETKİNLİĞİ, Workshop Organization, Bursa, Turkey
15 Nisan 2021	Karpat F., Raylı Sistemler Sektöründe Belgelendirme Faaliyetleri, Workshop Organization, Bursa, Turkey

27 Ocak 2020	Karpat F., Bursa Raylı Sistemler Çalıştayı, Workshop Organization, Bursa, Turkey
30 Kasım 2017	Karpat F., Ulaşım Sistemlerinde Yerli ve Milli Çözümler Paneli, Workshop Organization, Bursa, Turkey

Scientific Research / Working Group Memberships

2020 - Continues	Otomotiv Çalışma Grubu, https://avesis.uludag.edu.tr/arastirma-grubu/ocg , Bursa Uludağ University, Turkey
2018 - 2019	1004 Proje Hazırlık Grubu- Darbeli Fiber Lazer Sistemi Geliştirilmesi, http://www.uludag.edu.tr/fotonik , Bursa Uludağ University, Turkey

Mobility Activity

2017 - 2017	Mevlana Mobility Programme, Scientific Research, University of Central Oklahoma, United States Of America
2015 - 2015	Bilateral Colloboration Agreement, Guest Researcher, University of Central Oklahoma, United States Of America
2008 - 2008	Post Doc, Post Doc, Texas Tech University, United States Of America
2006 - 2006	Post Doc, Post Doc, Texas Tech University, United States Of America

Non Academic Experience

2020 - Continues	Governorship, Bursa Uludağ University, Makina Mühendisliği, Kamu-Üniversite-Sanayi İşbirliği (KÜSİ) İl Planlama ve Geliştirme Kurulu Üyesi
2019 - Continues	Company, Advances in Mechanical Engineering (Journal), Advances in Mechanical Engineering (Journal), Member of Editorial Board
2018 - Continues	Chamber of Commerce, Bursa Uludağ University, Makina Mühendisliği, Bursa Raylı Sistemler Kümesi Başkanı
2018 - Continues	BTSO, Küme Başkanı
2011 - Continues	Uludağ Üniversitesi, Bölüm Başkan Yardımcısı
2011 - Continues	Uludağ Üniversitesi, Yardımcı Doçent
2008 - 2011	Uludağ Üniversitesi, Öğretim Görevlisi
1998 - 2008	Uludağ Üniversitesi, Araştırma Görevlisi