



Prof. FATİH KARPAT

Personal Information

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International Researcher IDs

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

ScopusID: 24366799400

Yoksis Researcher ID: 156696



Education Information

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|-------------|---|
| 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) (Tezli), Turkey |
| 1994 - 1998 | Undergraduate, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, Makine Mühendisliği Bölümü, Turkey |

Certificates, Courses and Trainings

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

Dissertations

| | |
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| 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

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|------------------|--|
| 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 |

Advising 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

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|-------------|---|
| 2015 - 2016 | Karpat F., TEKNOLOJİK İNOVASYON YÖNETİMİ, Doctorate |
| 2014 - 2015 | Karpat F., MÜHENDİSLİK TASARIMINDA KARAR ANALİZİ, Doctorate |
| 2013 - 2014 | Karpat F., MAKİNE ELEMANLARININ SAYISAL ANALİZİ, Postgraduate |

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| 2013 - 2014 | Karpat F., SÜRDÜRÜLEBİLİR TASARIM , Postgraduate |
| 2011 - 2012 | Karpat F., Sürdürülebilir Ürün Tasarımı , Undergraduate |
| 2011 - 2012 | Karpat F., MİKRO SİSTEMLER, Undergraduate |
| 2011 - 2012 | Karpat F., MİKRO SİSTEMLER, Undergraduate |
| 2011 - 2012 | Karpat F., Sürdürülebilir Ürün Tasarımı, Undergraduate |

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. **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)
- II. **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, 2024 (SCI-Expanded)
- III. **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)
- IV. **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)
- V. **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)
- VI. **Energy-Efficient Anomaly Detection and Chaoticity in Electric Vehicle Driving Behavior**
Savran E., KARPAT E., KARPAT F.
SENSORS, no.17, 2024 (SCI-Expanded)
- VII. **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)
- VIII. **Impact performance of unconventional trigger holes**
Turan M. K., Ensarioglu C., Bakirci A., Karpat F.
MATERIALS TESTING, vol.66, no.3, pp.389-396, 2024 (SCI-Expanded)
- IX. **Effects of tooth root cracks on vibration and dynamic transmission error responses of asymmetric gears: A comparative study**
Kalay O. C., Dogan O., Yüce C., Karpat F.
MECHANICS BASED DESIGN OF STRUCTURES AND MACHINES, vol.52, no.5, pp.2569-2604, 2024 (SCI-Expanded)
- X. **Multi-response optimization for laser transmission welding of PMMA to ABS using Taguchi-based TOPSIS method**
Kucukoglu A., YÜCE C., Sozer I. E., KARPAT F.
Advances in Mechanical Engineering, vol.15, no.8, 2023 (SCI-Expanded)

- XI. **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)
- XII. **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)
- XIII. **Influence of tooth root cracks on the mesh stiffness of asymmetric spur gear pair with different backup ratios**
Dogana 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)
- XIV. **Fatigue performances of helicopter gears**
Kalay O. C., Yuce C., Dođan O., Yilmaz T. G., Karpata E., Kopmaz O., Karpata F.
MATERIALS TESTING, vol.65, no.1, pp.52-62, 2023 (SCI-Expanded)
- XV. **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)
- XVI. **Effects of asymmetric tooth profile on single-tooth stiffness of polymer gears**
Yuce C., Dogana O., KARPAT F.
MATERIALS TESTING, vol.64, no.4, pp.513-523, 2022 (SCI-Expanded)
- XVII. **A numerical investigation on the hybrid spur gears: Stress and dynamic analysis**
Yilmaz T. G., Dođan 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)
- XVIII. **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., Dogana O., YÜCE C., KARPAT E., Dhanasekaran L., Khandaker M.
TEHNIČKI VJESNIK-TECHNICAL GAZETTE, vol.28, no.6, pp.2045-2054, 2021 (SCI-Expanded)
- XIX. **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)
- XX. **Effects of rim thickness and drive side pressure angle on gear tooth root stress and fatigue crack propagation life**
Dogana O., Yuce C., KARPAT F.
ENGINEERING FAILURE ANALYSIS, vol.122, 2021 (SCI-Expanded)
- XXI. **A comparative experimental study on the impact strength of standard and asymmetric involute spur gears**
Kalay O. C., Dođan O., YILMAZ T. G., Yuce C., KARPAT F.
MEASUREMENT, vol.172, 2021 (SCI-Expanded)
- XXII. **Influences of gear design parameters on dynamic tooth loads and time-varying mesh stiffness of involute spur gears**
Dođan O., Karpata F., Kopmaz O., Ekwaro-Osire S.
SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.45, 2020 (SCI-Expanded)
- XXIII. **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)
- XXIV. **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)

- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **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., Ekworo-Osire S.
ADVANCES IN MECHANICAL ENGINEERING, vol.9, no.8, 2017 (SCI-Expanded)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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)

- XXXVIII. **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)
- XXXIX. **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)
- XL. **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)
- XLI. **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)
- XLII. **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)
- XLIII. **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)
- XLIV. **Computer aided analysis of bending strength of involute spur gears with asymmetric profile**
Cavdar K., Karpal 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 Review on Recent Advances and Challenges of Fuel Cell Electric Vehicles**
Savran E., BÜYÜK M., Karpal F.
Osmaniye Korkut Ata Üniversitesi Fen Bilimleri Enstitüsü Dergisi (Online), vol.7, no.1, pp.424-439, 2024 (Peer-Reviewed Journal)
- II. **32 Feet Uzunluğunda 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)
- III. **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)
- IV. **BİR OTOMOBİL BRAKET TASARIMININ ANALİZİ ve DEĞERLENDİRMESİ**
Savran E., Vargelci S., Catenaro L., Karpal F.
Uludağ University Journal of The Faculty of Engineering, vol.28, no.2, pp.493-506, 2023 (Peer-Reviewed Journal)
- V. **A NUMERICAL INVESTIGATION ON THE STRESS-BALANCED SPUR GEAR PAIRS**
Yılmaz T., Karadere G., Karpal F.
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.28, no.1, pp.1-10, 2023 (Peer-Reviewed Journal)
- VI. **Mechanical Evaluation of Road Durability Test in Battery Electric Buses**
Savran E., Yıldırım B., Çandır U., Karpal F.
International Journal of Automotive Science and Technology, vol.7, no.1, pp.63-69, 2023 (Scopus)
- VII. **EXPERIMENTAL AND NUMERICAL ANALYSIS OF MECHANICAL PROPERTIES OF CARBON FIBER-REINFORCED POLYMER GEARS**

DEDE F., KALAY O., YILMAZ T. G., KARPAT F.

ACTA TECHNICA CORVINIENSIS – Bulletin of Engineering, 2023 (Peer-Reviewed Journal)

- VIII. **Dengeli Gerilmeye Sahip Dişli Çark Çiftleri Üzerine Nümerik bir Araştırma**
YILMAZ T. G., KARADERE G., KARPAT F.
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.28, no.1, 2023 (Peer-Reviewed Journal)
- IX. **Cross-Sectional Shape Comparison In Corrugated Plates**
Savran E., Cakarer C., Sener F. B., KARPAT F.
Journal of Advanced Materials Science and Engineering, vol.2, no.1, pp.1-8, 2022 (Peer-Reviewed Journal)
- X. **Energy and Carbon Loss Management in an Electric Bus Factory for Energy Sustainability**
Savran E., Yavaş Ö., Erolnalbur B., Karpap F.
The Transdisciplinary Journal of Engineering & Science, vol.13, no.2, pp.97-110, 2022 (Scopus)
- XI. **Review on finite element analysis of dental implants**
Büyük F. N., Savran E., Karpap F.
Journal of Dental Implant Research, vol.41, no.3, pp.50-63, 2022 (Peer-Reviewed Journal)
- XII. **Prognostics and Health Management of Wind Energy Infrastructure Systems**
Yuce C., Gecgel O., Dogan O., Dabetwar S., Yanik Y., Kalay O. C., Karpap E., Karpap F., Ekwaro-Osire S.
ASCE-ASME J Risk and Uncert in Engrg Sys Part B Mech Engrg, vol.8, 2022 (ESCI)
- XIII. **A Review on Gearbox Types in Battery Electric Vehicle**
Karpap F., Savran E.
Uluslararası Bilim Teknoloji ve Tasarım Dergisi, vol.3, no.1, pp.56-81, 2022 (Peer-Reviewed Journal)
- XIV. **Fault Classification of Wind Turbine Gearbox Bearings Based on Convolutional Neural Networks**
KARPAT F., Kalay O. C., DİRİK A. E., KARPAT E.
Transdisciplinary Journal of Engineering and Science, vol.13, pp.71-83, 2022 (Scopus)
- XV. **INFLUENCE OF LINEAR PROFILE MODIFICATIONS ON THE DYNAMIC LOADING OF A SPUR GEAR**
Doğan O., Kalay O., Karpap F.
Uludağ University Journal of The Faculty of Engineering, vol.26, no.2, pp.5-10, 2021 (Peer-Reviewed Journal)
- XVI. **PMMA ve ABS MALZEMELERİN LAZER İLETİM KAYNAĞI İLE BİRLEŞTİRİLMESİNDE PROSES PARAMETRE ETKİLERİNİN İNCELENMESİ**
KÜÇÜKOĞLU A., YÜCE C., KARPAT F., Okar H., Sözer İ. E., Kurt N.
Uludağ University Journal of The Faculty of Engineering, vol.26, no.2, pp.481-491, 2021 (Peer-Reviewed Journal)
- XVII. **Kargo Taşıma için İnsansız Hava Aracı**
Demirbaş A. M., İnan B., Damyanlı E. C., Karaman O., Nurten M. C., gönül E., KARPAT E., KARPAT F.
Mühendis ve Makine güncel, 2021 (Peer-Reviewed Journal)
- XVIII. **Optimum Design of Brake Pedal for Trucks Using Structural Optimization and Design of Experiment Techniques**
DOĞAN O., KALAY O. C., KARTAL E., KARPAT F.
International Journal of Automotive Science and Technology, vol.4, no.4, pp.272-280, 2020 (Peer-Reviewed Journal)
- XIX. **EFFECTS OF CRACK INITIALIZATION ANGLE ON CRACKPROPAGATION PATH OF THIN RIM GEARS FOR WINDTURBINES**
Doğan O., Kalay O. C., Karpap F.
Uludağ University Journal of The Faculty of Engineering, vol.20, no.1, pp.217-230, 2020 (Peer-Reviewed Journal)
- XX. **Understanding the causes behind coracoid graft osteolysis in Latarjet procedure: Finite element analysis and comparison of three fixation methods Éléments de compréhension de l'ostéolyse de la coracoïde après l'intervention de Latarjet : étude en éléments finis comparant trois méthodes de fixation**
Alp N. B., DOĞAN O., YILMAZ T. G., Kalay O. C., Moussa A. A., KARPAT F., Khandaker M., Akdag G.
Revue de Chirurgie Orthopedique et Traumatologique, vol.106, no.1, pp.29, 2020 (Scopus)
- XXI. **Angulated versus parallel headless cannulated screw fixation for type 1 capitellum fracture: A finite element study**
ALP N. B., Efeendigil T., Demir Ö., BİLSEL İ. K., KALAY O. C., KARPAT F., DOĞAN O., AKDAĞ G.

- Annals of Medical Research, vol.27, no.10, pp.2550, 2020 (Peer-Reviewed Journal)
- XXII. **FINITE ELEMENT STRESS AND MODAL ANALYSIS OF BIMETAL SPUR GEARS**
Yılmaz T. G., Karpat F.
Uludağ University Journal of The Faculty of Engineering, vol.24, no.3, pp.339-346, 2019 (Peer-Reviewed Journal)
- XXIII. **The Effect of Tooth Thickness on Root Stress of Internal Spur Gear Mechanism**
Yılmaz T. G., Karpat F.
International Research Journal of Engineering and Technology, vol.6, no.11, pp.2079-2083, 2019 (Peer-Reviewed Journal)
- XXIV. **TEMEL DİŞLİ TASARIM PARAMETRELERİNİN TEK DİŞ VE KAVRAMA RİJİTLİĞİNE ETKİSİNİN SONLU ELEMENLAR METODU İLE İNCELENMESİ**
Doğan O., Karpat F.
Uludağ University Journal of The Faculty of Engineering, vol.23, no.4, 2018 (Peer-Reviewed Journal)
- XXV. **Effects of using cutter with asymmetric tip radius on root stress of thin and solid rimmed internal gear**
Yılmaz T. G., Kalay O., Karpat F.
International Journal of Development Research, vol.8, no.7, pp.21463-21470, 2018 (Peer-Reviewed Journal)
- XXVI. **STRESS ANALYSIS OF THIN RIMMED ASYMMETRIC SPUR GEARS**
Yılmaz T. G., Kalay O., Karpat F.
INTERNATIONAL JOURNAL OF ADVANCES ON AUTOMOTIVE AND TECHNOLOGY, vol.2, no.3, pp.143-150, 2018 (Peer-Reviewed Journal)
- XXVII. **IMPROVING BENDING LOAD CAPACITY OF SPUR GEARS WITH INCREASING ROOT RADIUS**
Kalay O. C., Doğan O., Karpat F.
INTERNATIONAL SCIENTIFIC JOURNAL TRANS MOTAUTO WORLD, vol.3, no.1, pp.7-10, 2018 (Peer-Reviewed Journal)
- XXVIII. **Structural Analysis of Dental Implants with Various Micro Groove Profiles**
Karaman H., Yüce C., Karpat F., Dhanasekaran L., Khandaker M.
International Research Journal of Advanced Engineering and Science, vol.3, no.1, pp.101-104, 2018 (Peer-Reviewed Journal)
- XXIX. **Shape Optimization of an Overdesigned Chain Link by using Desing of Experiment and Grapical Optimization**
KARPAT F., DOĞAN O., YÜCE C.
International Journal of Mechanical And Production Engineering, vol.5, no.10, pp.106-110, 2017 (Peer-Reviewed Journal)
- XXX. **AN ALTERNATIVE METHOD TO SPECIFY UNDERCUT POINT OF INVOLUTE SPUR GEAR WITH LOW NUMBER TEETH**
Yılmaz T. G., Yüce C., Karpat F.
International Journal of Mechanical and Production Engineering, vol.9, no.5, pp.96-99, 2017 (Peer-Reviewed Journal)
- XXXI. **The Optimization of Process Parameters for Laser Welded Galvanized Automobile Steel Sheets Using A Taguchi Method**
Yüce C., Karpat F., Yavuz N., Tekin G., Çapar N.
International Journal of Mechanical And Production Engineering, vol.5, no.9, pp.83-87, 2017 (Peer-Reviewed Journal)
- XXXII. **A Review of the Mechanical Joining Techniques for Thermoplastics**
Karpat F., Küçükkoğlu A.
JOJ Material Science, vol.3, no.1, pp.1-2, 2017 (Peer-Reviewed Journal)
- XXXIII. **Design Verification of Tractor Clutch Cover under High Centrifugal Effect**
Karpat F., Doğan O., Yüce C., Genç M. O.
International Journal of Automotive Science and Tecnology, vol.1, no.1, pp.29-33, 2017 (Peer-Reviewed Journal)
- XXXIV. **ELECTROMAGNETIC COMPATIBILITY EMC IN WIND TURBINES**
Karpat E., Karpat F.

- International Journal of Industrial Electronics and Electrical Engineering,, vol.4, no.6, pp.90-93, 2016 (Peer-Reviewed Journal)
- XXXV. **Design Optimization Of Aluminum Hinge Parts For Lightweight Vehicles Performance Durability And Manufacturability**
Tüfekçi M., Karpaz F., Yüce C., Dođan O., Yılmaz T. G., Kaya N.
International Journal of Mechanical and Production Engineering, vol.3, no.12, pp.11-18, 2015 (Peer-Reviewed Journal)
- XXXVI. **A Review On Advanced Joining Techniques Of Multi Material Part Manufacturing For Automotive Industry**
Yüce C., Karpaz F., Yavuz N.
International Journal of Mechanical and Production Engineering, vol.3, no.5, pp.63-68, 2015 (Peer-Reviewed Journal)
- XXXVII. **THE ANALYSIS OF SOME FACTORS FOR THE OPTIMIZATION OF CYLINDRICAL GEAR TRANSMITTERS**
Ibrahimı N., Ramadani R., Sadullah A., Karpaz F.
International Journal of Mechanical Engineering and Technology, vol.5, no.4, pp.10-15, 2014 (Peer-Reviewed Journal)
- XXXVIII. **A Computer Program for Dynamic Load Simulation of Spur Gears with Asymmetric and Symmetric Teeth**
Karpaz F., Ekwaro Osire S., Karpaz E.
World Journal of Mechanics, vol.2, no.5, pp.239-245, 2012 (Peer-Reviewed Journal)
- XXXIX. **Computer aided analysis of involute spur gears with asymmetric teeth**
Çavdar K., Babalık F., Karpaz F.
VDI Berichte, vol.1904, pp.145-163, 2005 (Peer-Reviewed Journal)
- XL. **Asimetrik Evolvent Profilli Düz Dişli Çarkların Geometri ve Gerilme Analizi**
Karpaz F., Çavdar K., Babalık F. C.
TMMOB Mühendis Makine Dergisi, vol.45, no.528, pp.40-49, 2004 (Peer-Reviewed Journal)
- XLI. **Asimetrik Evolvent Profilli Düz Dişlilerin Boyutlandırılması ve Geometrik Modellerinin Oluşturulması**
ÇAVDAR K., KARPAT F., Fatih C B.
Uludağ Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.9, no.1, pp.111-121, 2004 (Peer-Reviewed Journal)
- XLII. **Bilgisayar Yardımıyla Düz Helisel Konik ve Sonsuz Vida Dişli Mekanizmalarının Boyutlandırılması ve Analizi**
Karpaz F., Çavdar K., Babalık F. C.
TMMOB Mühendis Makine, no.510, pp.26-32, 2002 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Current & Future Challenges in Energy Issues**
Karpaz F. (Editor)
New Atlas dot Com, Inc. , Texas, 2023
- II. **The Self-Compensation Approach for Backlash on Gear Train**
Karba B., Yıldırım N., Vardar M., Karpaz F., Rackov M.
in: Machine and Industrial Design in Mechanical Engineering, Maja Čavić,Radivoje Mitrović,Milan Rackov, Editor,
Springer, London/Berlin , London, pp.85-96, 2022
- III. **A Comparison: Root Stress Analysis of Involute Spur Gear with Asymmetric Involute and Asymmetric Trochoid**
YILMAZ T. G., KARPAT F.
in: INSAC Natural and Engineering Sciences, Mısır, Gizem Doç.Dr. Uzun, Mehmet, Dr., Editor, DUVAR YAYINEVİ,
İzmir, pp.269-281, 2021
- IV. **Makine Elemanları Çözümlü Problem Kitabı**
Çavdar K., Babalık F., Gerger N., Karpaz F., Kırac N.

Dora, Bursa, 2019

V. **Makine Elemanları çözümlü problem kitabı**

Babalık F. C., ÇAVDAR K., GERGER M. N., KARPAT F., KIRAÇ N.

Dora, Bursa, 2015

VI. **A Virtual Tool for Computer Aided Analysis of Spur Gears with Asymmetric Teeth**

Karpap F., Ekwaro-Osire S., Karpap E.

in: Applications of MATLAB in Science and Engineering, Tadeusz Michalowski, Editor, IntechOpen, London, pp.1123-1140, 2011

Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of the Effect of Hole Diameter and Aspect Ratio on Elastic Buckling Strength and Determination Buckling Coefficients for Thin Plate Structural Parts in Aerospace Industry with Finite Elements Method**
Subran M., KARPAT F.
3rd International Conference on Scientific and Academic Research, Konya, Turkey, 25 December 2023
- II. **A Deep Learning-Based Method For Early Crack Diagnosis In Non-Standard Spur Gear Pairs**
Kalay O. C., KARPAT F., KARPAT E., DİRİK A. E., Ekwaro Osire S.
ASME 2023 International Mechanical Engineering Congress and Exposition, IMECE 2023, New Orleans, United States Of America, 29 October - 02 November 2023
- III. **Otomobil Ön Tampon Braketinde Tasarım İyileştirmesi**
Savran E., Vargelci S., CATENARO L., KARPAT F.
1st International Conference on Engineering, Natural and Social Sciences (ICENSOS 2022, Konya, Turkey, 20 - 21 December 2022
- IV. **EXPERIMENTAL MODEL DEVELOPMENT USING AN ANIMAL BRAIN PHANTOM TO STUDY CAVITATION DAMAGE FROM TRAUMATIC BRAIN INJURY**
Khandaker M., Giri A., Nayak P., Jarshaw C., Kalay O. C., KARPAT F., Wolf R. F.
ASME 2022 International Mechanical Engineering Congress and Exposition (IMECE2022), Ohio, United States Of America, 29 October - 03 November 2022
- V. **Otomatik Park Sistemi için Sonlu Eleman Analizi Çalışması**
KARPAT F., Savran E., Kartal E., Sener F. B., Cakarar C.
1st International Conference on Innovative Academic Studies, Konya, Turkey, 10 - 12 September 2022
- VI. **Hibrit Dişlilerde Süren Taraf Kavrama açısının Tek Diş Rijitliğine Etkilerinin İncelenmesi**
YILMAZ T. G., KARADERE G., KARPAT F.
2nd International Conference on Engineering and Applied Natural Sciences, Konya, Turkey, 10 - 15 October 2022
- VII. **INFLUENCE OF TOOTH PROFILE MODIFICATIONS ON GEAR TRANSMİSSION ERROR**
Kartal E., Savran E., Karba B., KARPAT F.
INTERNATIONAL CAPITAL CONFERENCE ON MULTIDISCIPLINARY SCIENTIFIC RESEARCH, lizbon, Portugal, 13 - 14 July 2022
- VIII. **Süren taraf kavrama açısının hibrit dişlilerin oluşan gerilmelere etkileri**
YILMAZ T. G., KARADERE G., KARPAT F.
International Conference on Global Practice of Multidisciplinary Scientific Studies, TİFLİS, Georgia, 24 June 2022
- IX. **Fault Diagnosis of Rolling Bearing Under Variable Operating Conditions Based on Deep Learning**
Karpap F., Kalay O. C., Dirik A. E., Karpap E.
10th International Scientific Conference on Research and Development of Mechanical Elements and Systems, Belgrade, Serbia, 26 May 2022, pp.148-155
- X. **EXPERIMENTAL AND NUMERICAL ANALYSIS OF MECHANICAL PROPERTIES OF CARBON FIBER-REINFORCED POLYMER GEARS**
KARPAT F., DEDE F., YILMAZ T. G., KALAY O.
10th International Scientific Conference IRMES 2022, Belgrade, Serbia, 26 May 2022

- XI. **Fault Diagnosis With Deep Learning for Standard and Asymmetric Involute Spur Gears**
KARPAT F., DİRİK A. E., KALAY O. C., YÜCE C., DOĞAN O., KORCUKLU B.
ASME 2021 International Mechanical Engineering Congress and Exposition, United States Of America, 01 November 2021, vol.1314029
- XII. **The Self-Compensation Approach for Backlash on Gear Train**
Karba B., Yıldırım N., Vardar M., KARPAT F., Rackov M.
11th International Conference on Machine and Industrial Design in Mechanical Engineering, KOD 2021, Novi-Sad, Serbia, 10 - 12 June 2021, vol.109, pp.85-96
- XIII. **EXPERIMENTAL MODEL DEVELOPMENT USING AN ANIMAL BRAIN PHANTOM TO STUDY NEURAL DAMAGE FROM TRAUMATIC BRAIN INJURY**
Khandaker M., Giri A., Nayak P., Jarshaw C., Kalay O. C., KARPAT F., Wolf R. F.
ASME 2022 International Mechanical Engineering Congress and Exposition, IMECE 2022, Ohio, United States Of America, 30 October - 03 November 2022, vol.4
- XIV. **A REVIEW ON STEEL-COMPOSITE HYBRID GEARS**
Dede F., KARPAT F.
International Antalya Scientific Research and Innovative Studies Congress, Antalya, Turkey, 18 - 21 December 2021
- XV. **Convolutional neural networks based rolling bearing fault classification under variable operating conditions**
KARPAT F., Kalay O. C., DİRİK A. E., Dogan O., KORCUKLU B., Yuce C.
2021 International Conference on INnovations in Intelligent SysTems and Applications, INISTA 2021, Kocaeli, Turkey, 25 - 27 August 2021
- XVI. **Rolling Bearing Fault Diagnosis Under Variable Working Conditions with Artificial Intelligence**
Karpap F., Dirik A. E., Kalay O. C.
International Conference on Interdisciplinary Applications of AI (ICIDAAI), Yalova, Turkey, 21 - 23 May 2021, pp.1-5
- XVII. **STRESS ANALYSIS OF ADDITIVE MANUFACTURED LIGHTWEIGHT SPUR GEARS**
YILMAZ T. G., Kalay O. C., KARPAT F., Ekwaro-Osire S.
ASME 2021 International Mechanical Engineering Congress and Exposition, IMECE 2021, Virtual, Online, 1 - 05 November 2021, vol.2A-2021
- XVIII. **LASER MICROGROOVING AND NANOFIBER MEMBRANE APPLICATION FOR TOTAL KNEE REPLACEMENT IMPLANTS USING A CAPRINE MODEL**
Khandaker M., Nikfarjam S., Kari K., Kalay O. C., KARPAT F., Progrid H., Bhuiyan A., Clary E., Haleem A.
ASME 2021 International Mechanical Engineering Congress and Exposition, IMECE 2021, Virtual, Online, 1 - 05 November 2021, vol.5
- XIX. **Hibrit Dişli Çarkların Farklı Ortam Sıcaklıklarında Analizi**
Karpap F.
Sanayi Odaklı Lisans Bitirme Projeleri Programı, 13 August 2020, pp.177-180
- XX. **A Novel AI-Based Method for Spur Gear Early Fault Diagnosis in Railway Gearboxes**
KARPAT F., DİRİK A. E., Doğan O., Kalay O. C., KORCUKLU B., YÜCE C.
2020 Innovations in Intelligent Systems and Applications Conference (ASYU), Istanbul, Turkey, Turkey, 15 - 17 October 2020
- XXI. **AN INVESTIGATION ON THE DESIGN OF FORMATE AND GENERATE FACE MILLED HYPOID GEARS**
Yılmaz T. G., Kalay O., Karpap F., Doğanlı M., Altıntaş E.
ASME IMECE 2020, Oregon, United States Of America, 15 - 19 November 2020
- XXII. **Interferometric Detection of Sars-Cov-2 Virus with Thinned Optical Fiber**
Alemdar A., Coşkun B., Bayram Ü., Muzafferoğlu N., Karpap F., Temel Ş. G.
ASGH 2020 American Society of Human Genetics, Maryland, United States Of America, 27 October 2020 - 30 January 2021, pp.1
- XXIII. **Plakalı eşanjör üretim verilerinin makine öğrenmesi yöntemleriyle incelenmesi**
Karpap F., Işığçok A.
2nd International Eurasian Conference on Science, Engineering and Technology, Gaziantep, Turkey, 7 - 09 October

2020, pp.1-5

- XXIV. **DEVELOPMENT AND IN VITRO EVALUATION OF A SURFACE LASER MICROGROOVING PROCESS FOR ENHANCING PERFORMANCE OF CEMENTED ORTHOPEDIC IMPLANTS**
Karpat F.
The 2020 ACVS Surgery Summit, Alabama, United States Of America, 5 - 07 August 2020, pp.18
- XXV. **Bending Stress Analysis of Spur Gears with Different Tooth Root Radius**
Kartal E., Doğan O., Yılmaz T. G., Turan K., Kalay O., Karpat F.
4. Uluslararası Bilim, Mühendislik ve Teknolojide Yeni Trendler Kongresi, Sankt-Peterburg, Russia, 7 - 09 July 2020
- XXVI. **Effects of the design parameters on mesh stiffness of the spur gears**
Kalay O., Doğan O., Yılmaz T. G., Turan K., Kartal E., Karpat F.
2nd INTERNATIONAL EUROPEAN CONFERENCE ON INTERDISCIPLINARY SCIENTIFIC RESEARCHES, Ankara, Turkey, 4 - 05 July 2020
- XXVII. **A STUDY ON THE MODAL ANALYSIS OF SPUR GEARS**
Turan K., Doğan O., Yılmaz T. G., Kalay O., Kartal E., Karpat F.
2nd INTERNATIONAL EUROPEAN CONFERENCE ON INTERDISCIPLINARY SCIENTIFIC RESEARCHES, Ankara, Turkey, 4 - 05 July 2020
- XXVIII. **The effect of micro grooving on goat total knee replacement: A finite element study**
Khandaker M., Kalay O. C., KARPAT F., Haleem A., Williams W., Boyce K. E., Clary E., Agrawal K.
ASME 2020 International Mechanical Engineering Congress and Exposition, IMECE 2020, Virtual, Online, 16 - 19 November 2020, vol.5
- XXIX. **Vibration-based early crack diagnosis with machine learning for spur gears**
KARPAT F., DİRİK A. E., Kalay O. C., Doan O., KORCUKLU B.
ASME 2020 International Mechanical Engineering Congress and Exposition, IMECE 2020, Virtual, Online, 16 - 19 November 2020, vol.7B-2020
- XXX. **STRESS ANALYSIS OF INTERNAL SPUR GEARS WITH ASYMMETRIC TEETH**
Yılmaz T. G., Karpat F.
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 17 - 19 December 2019
- XXXI. **INTERFERENCE ANALYSIS OF SPUR GEARS WITH ASYMMETRIC TROCHOID**
Yılmaz T. G., Karpat F.
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 17 - 19 December 2019
- XXXII. **AN ALTERNATIVE METHOD TO ELIMINATE UNDERCUT OF SPUR GEARS**
Yılmaz T. G., Karpat F.
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 17 - 19 December 2019
- XXXIII. **Effects of Drive Side Pressure Angle on Gear Fatigue Crack Propagation Life for Spur Gears With Symmetric and Asymmetric Teeth**
Karpat F., Doğan O., Yılmaz T. G., Yüce C., Kalay O., Karpat E., Kopmaz O.
ASME IMECE 2019 Volume 9: Mechanics of Solids, Structures, and Fluids, Utah, United States Of America, 11 - 14 November 2019
- XXXIV. **FINITE ELEMENT ANALYSIS OF HUMAN SCAPULA COMPARISON OF SCREW, WEDGE PLATE, AND ENDOBUTTON FIXATION METHODS**
KARPAT F., ALP N. B., KALAY O., DOĞAN O., YILMAZ T. G., Khandaker M., Moussa A. A.
ASME IMECE 2019, SALT LAKE CITY, United States Of America, 8 - 14 November 2019
- XXXV. **Stress and Mesh Stiffness Evaluation of Bimaterial Spur Gears**
Karpat F., Yılmaz T. G., Doğan O., Kalay O.
ASME IMECE 2019 Volume 2B: Advanced Manufacturing, Utah, United States Of America, 11 - 14 November 2019
- XXXVI. **Numerical Analysis With Physical Test Correlation and Design Optimization of a Rollover Protective Structure (ROPS)**
Karpat F., Yahşi M., Alp M. K.

IMECE 2019 ASME 2019 International Mechanical Engineering Congress and Exposition, Utah, United States Of America, 11 - 14 November 2019

- XXXVII. **A Review for Investigation Studies That are Done for Improving Image Processing Classification Based on Convolutional Neural Network (CNN) That is Architectural of Deep Learning**
Tüfekçi M., Karpaz F.
HORA2019 - International Congress on Human-Computer Interaction, Optimization and Robotic Applications, Nevşehir, Turkey, 05 July 2019
- XXXVIII. **Crack Propagation Path Analysis of Spur Gears for Wind Turbines**
Doğan O., Kalay O. C., Karpaz F.
Alternative Energy Sources, Materials and Technologies (AESMT'19), Sofia, Bulgaria, 3 - 04 June 2019
- XXXIX. **Bending Stress Comparison of Asymmetric and Asymmetric Trochoid Spur Gear**
Yılmaz T. G., Karpaz F., Kalay O.
Alternative Energy Sources, Materials Technologies (AESMT'19), Sofia, Bulgaria, 3 - 04 June 2019, pp.129-130
- XL. **Effects of Heat Input in Laser Welding of Dissimilar Galvanized Steel to Aluminium Alloy**
Yüce C., Karpaz F., Yavuz N.
Proceedings of the 4th World Congress on Mechanical, Chemical, and Material Engineering (MCM'xx18), Madrid, Spain, 16 - 18 August 2018
- XLI. **Influence of Root Geometry on Bending Stress for Involute Spur Gears**
Yılmaz T. G., Karpaz F.
7th International Conference on Mechanics and Industrial Engineering (ICMIE'xx18), Madrid, Spain, 16 - 18 August 2018
- XLII. **Development of Special Improvement and Maintenance Model for Conveyor Lines**
Yüce C., Doğan O., Semih Sezer B., Karpaz F., Yavuz N.
9th International Automotive Technologies Congress - OTEKON 2018, Bursa, Turkey, 7 - 08 May 2018, pp.1601-1608
- XLIII. **Stress Analysis of Internal Gear Pairs with Unequal Tooth Thickness**
Yılmaz T. G., Karpaz F.
2018 9th International Conference on Mechanical and Aerospace Engineering (ICMAE), Budapest, Hungary, 10 - 13 July 2018, pp.478-482
- XLIV. **EXPERIMENTAL INVESTIGATION OF THE IMPACT RESISTANCE OF INVOLUTE SPUR GEARS**
Doğan O., Karpaz F., Yüce C., Kalay O. C.
2018 The 9th International Conference on Mechanical and Aerospace Engineering (ICMAE'18), Budapest, Hungary, 10 - 13 July 2018
- XLV. **EFFECTS OF LINEAR SHORT TIP RELIEF MODIFICATION ON DYNAMIC RESPONSE OF THE SPUR GEARS**
Doğan O., Kalay O. C., Karpaz F.
2018 Alternative Energy Sources, Materials Technologies (AESMT'18), Plovdiv, Bulgaria, 14 - 15 May 2018
- XLVI. **STRESS ANALYSIS OF THIN RIMMED ASYMMETRIC SPUR GEARS**
Yılmaz T. G., Kalay O., Karpaz F.
INTERNATIONAL CONFERENCE ON PROGRESSES IN AUTOMOTIVE TECHNOLOGIES, İstanbul, Turkey, 10 - 12 May 2018, pp.74-81
- XLVII. **A CASE STUDY: AN ALTERNATIVE APPROACH TO WEIGHT REDUCTION OF SPUR GEAR PAIR WITH USING NON-STANDARD TOOTH THICKNESS**
Yılmaz T. G., Karpaz F.
9th International Automotive Technologies Congress-OTEKON 2018, Bursa, Turkey, 7 - 08 May 2018, pp.731-736
- XLVIII. **IMPROVING BENDING LOAD CAPACITY OF SPUR GEARS WITH INCREASING ROOT RADIUS**
Kalay O. C., Doğan O., Karpaz F.
XI INTERNATIONAL CONFERENCE FOR YOUNG RESEARCHERS, Sofia, Bulgaria, 14 - 17 March 2018, vol.1, pp.3-6
- XLIX. **Experimental and Numerical Analysis of Electrospun Fiber Anchored Silicone Intervertebral Disc**
Tummala S., Doğan O., Karpaz F., Khandaker M.
ORS 2018 ANNUAL MEETING, California, United States Of America, 10 - 13 March 2018, vol.1, pp.81

- L. **IMPROVEMENT OF LOADING CAPACITY OF INTERNAL SPUR GEAR WITH USING ASYMMETRIC TROCHOID PROFILE**
YILMAZ T. G., DOĞAN O., Yuce C., KARPAT F.
ASME International Mechanical Engineering Congress and Exposition, Tama, Japan, 3 - 09 November 2017
- LI. **INFLUENCE OF HEAT INPUT ON MECHANICAL PROPERTIES AND MICROSTRUCTURE OF LASER WELDED DISSIMILAR GALVANIZED STEEL-ALUMINUM JOINTS**
Yuce C., KARPAT F., YAVUZ N.
13th ASME International Manufacturing Science and Engineering Conference, Texas, United States Of America, 18 - 22 June 2018
- LII. **EVALUATION OF BIOMECHANICAL PERFORMANCES OF ELECTROSPUN FIBER ANCHORED SILICONE DISC AS AN INTERVERTEBRAL DISC IMPLANT**
Tummala S., DOĞAN O., KARPAT F., Riahinezhad S., Khandaker M.
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.
ASME International Mechanical Engineering Congress and Exposition, Tama, Japan, 3 - 09 November 2017
- LIV. **Shape Optimization of an Overdesigned Chain Link by Using Design of Experiment and Grapical Optimization**
Karpat F., Doğan O., Yüce C.
Academics World 66th International Conference, Praha, Czech Republic, 21 - 22 May 2017
- LV. **Prototype Conveyor Line Monitoring System**
Yüce C., Yılmaz T. G., Karpat F., Yavuz N.
ISERD, 218th International Conference on Recent Innovations in Engineering and Technology (ICRIET), Florence, Italy, 21 - 22 July 2017
- LVI. **An Alternative Method to Specify Undercut Point of Involute Spur Gear with Low Number Teeth**
Yılmaz T. G., Yüce C., Karpat F.
ISERD, 218th International Conference on Recent Innovations in Engineering and Technology (ICRIET), Florence, Italy, 21 - 22 July 2017
- LVII. **The Optimization of Process Parameters for Laser Welded Galvanized Automobile Steel Sheets Using A Taguchi Method**
Yüce C., Karpat F., Yavuz N., Tekin G., Çapar N.
International Conference on Engineering, Technology and Innovations (IACETI), Paris, France, 13 - 14 July 2017, pp.52-56
- LVIII. **Stress Analysis of Thin Rimmed Spur Gear with Asymmetric Trochoid**
Yılmaz T. G., Doğan O., Karpat F.
6TH INTERNATIONAL CONFERENCE ON MECHANICS AND INDUSTRIAL ENGINEERING (ICMIE'xx17), Rome, Italy, 8 - 10 June 2017
- LIX. **SHAPE OPTIMIZATION OF AN OVERDESIGNED CHAIN LINK BY USING DESIGN OF EXPERIMENT AND GRAPICAL OPTIMIZATION**
Karpat F., Doğan O., Yüce C.
Proceedings of Academics World 66th International Conference, Praha, Czech Republic, 21 - 22 May 2017
- LX. **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
- LXI. **Effect of fiber laser welding parameters on the penetration depth and weld bead geometry**
Yüce C., Karpat F., Yavuz N., Tekin G., Çapan N.
1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, 26 - 28 October 2016

- LXII. **Entegre Bir Dişli Çark Tasarım Metodolojisinin Geliştirilmesi**
Yılmaz T. G., Güllü E., Karpaz F.
8.OTOMOTİV TEKNOLOJİLERİ KONGRESİ, Bursa, Turkey, 23 - 24 May 2016
- LXIII. **SHAPE OPTIMIZATION OF CLUTCH CUSHION DISC USING DIFFERENTIAL EVOLUTION METHOD**
KAYA N., Kartal S., Cakmak T., KARPAT F., Karaduman A.
ASME International Mechanical Engineering Congress and Exposition (IMECE2015), Texas, United States Of America, 13 - 19 November 2015
- LXIV. **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.
ASME International Mechanical Engineering Congress and Exposition (IMECE2015), Texas, United States Of America, 13 - 19 November 2015
- LXV. **DESIGN AND ANALYSIS OF INTERNAL GEARS WITH DIFFERENT RIM THICKNESS AND SHAPES**
KARPAT F., Ekwaro-Osire S., YILMAZ T. G., Dogan O., Yuce C.
ASME International Mechanical Engineering Congress and Exposition (IMECE2015), Texas, United States Of America, 13 - 19 November 2015
- LXVI. **Otomobil Kapı Menteşesinin 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
- LXVII. **Optimum Design of Tractor Clutch PTO Finger Using Topology and Shape Optimization**
Doğan O., Karpaz F., Kaya N., Yüce C., Yavuz N., Genç M. O.
ASME IMECE 2015, Texas, United States Of America, 13 - 19 November 2015
- LXVIII. **Design Optimization of Aluminum Hinge Parts for Lightweight Vehicles Performance Durability and Manufacturability**
TÜFEKÇİ M., KARPAT F., YÜCE C., DOĞAN O., YILMAZ T. G., KAYA N.
2015 IIER 19th International Conference on Recent Innovations in Engineering and Technology (ICRRIET2015), 23 October 2015
- LXIX. **A Review on advanced joining techniques of multi material part manufacturing for automotive industry**
YÜCE C., KARPAT F., YAVUZ N., DOĞAN O.
Proceedings of Eighteenth TheIIER International Conference, ROMA, Italy, 28 - 29 March 2015, pp.51-56
- LXX. **Effect of Rim Thickness on Tooth Root Stress and Mesh Stiffness of Internal Gears**
Karpaz F., Engin B., Doğan O., Yüce C., Yılmaz T. G.
ASME 2014 International Mechanical Engineering Congress and Exposition, Montreal, Canada, 14 - 20 November 2014, vol.11
- LXXI. **EXPERIMENTAL VERIFICATION AND FINITE ELEMENT ANALYSIS OF AUTOMOTIVE DOOR HINGE**
Dogan S., Guven C., KARPAT F., YILMAZ T. G., Dogan O.
ASME International Mechanical Engineering Congress and Exposition (IMECE2014), Montreal, Canada, 14 - 20 November 2014
- LXXII. **A NOVEL METHOD FOR CALCULATION GEAR TOOTH STIFFNESS FOR DYNAMIC ANALYSIS OF SPUR GEARS WITH ASYMMETRIC TEETH**
KARPAT F., Dogan O., Ekwaro-Osire S., Yuce C.
ASME International Mechanical Engineering Congress and Exposition (IMECE), Montreal, Canada, 14 - 20 November 2014
- LXXIII. **EFFECTS OF RIM THICKNESS ON TOOTH ROOT STRESS AND MESH STIFFNESS OF INTERNAL GEARS**
KARPAT F., Engin B., Dogan O., Yuce C., YILMAZ T. G.
ASME International Mechanical Engineering Congress and Exposition (IMECE), Montreal, Canada, 14 - 20 November 2014
- LXXIV. **THE INVESTIGATION OF STRESS DISTRIBUTION ON THE TRACTOR CLUTCH FINGER MECHANISM BY USING FINITE ELEMENT METHOD**
KARPAT F., Dogan O., Yuce C., KAYA N., Cengiz G.

ASME International Mechanical Engineering Congress and Exposition (IMECE2014), Montreal, Canada, 14 - 20 November 2014

- LXXV. **Traktör Debriyajı Parmak Mekanizmasının Analizi**
Karpas F., Dođan O., Yuce C., Kaya N., Yavuz N., Cengiz G.
7. Otomotiv Teknolojileri Kongresi OTEKON 2014, Bursa, Turkey, 26 - 27 May 2014
- LXXVI. **PROTOTYPING A NEW LIGHTWEIGHT PASSENGER SEAT**
Yuce C., KARPAT F., Yavuz N., Kaynakli Ö., Dolaylar E., Sendeniz G.
ASME International Mechanical Engineering Congress and Exposition (IMECE2013), California, United States Of America, 15 - 21 November 2013
- LXXVII. **A VIRTUAL TOOL FOR WEAR SIMULATION OF PLASTIC GEAR PAIRS**
Karpas F., Ekwaro-Osire S., Yuce C., Karpas F.
ASME International Mechanical Engineering Congress and Exposition (IMECE2013), California, United States Of America, 15 - 21 November 2013
- LXXVIII. **Yolcu Koltuđunda Hafifletme Üzerine Bir Çalıřma**
Yuce C., Yavuz N., Karpas F., Sendeniz G., Aksoy M.
Makine İmalat Teknolojileri Sempozyumu ve Sergisi (MATİT 2013), Bursa, Turkey, 6 - 07 December 2013, pp.151-157
- LXXIX. **Uncertainty Consideration in Multibody Dynamic Analysis of Helical-Gear-Pairs**
Alemayehu F. M., Ekwaro Osire S., Karpas F.
International Conference on Gears 2013, Munich, Germany, 10 - 13 October 2013, vol.1, pp.427-438
- LXXX. **A VIRTUAL TOOL FOR WEAR SIMULATION OF STANDARD AND NON-STANDARD SPUR GEARS**
KARPAT F., Ekwaro-Osire S., KARPAT F.
ASME International Mechanical Engineering Congress and Exposition, Texas, United States Of America, 9 - 15 November 2012, pp.261-264
- LXXXI. **EFFICIENCY OF THE HIGH CONTACT RATIO INVOLUTE SPUR GEARS WITH ASYMMETRIC TEETH**
KARPAT F., Ekwaro-Osire S.
ASME International Mechanical Engineering Congress and Exposition (IMECE), Vancouver, Canada, 12 - 18 November 2010, pp.319-320
- LXXXII. **Rüzgar Türbini Test Düzenegi Tasarımı**
KARPAT F., ÇAVDAR K.
TİMAK Tasarım İmalat Analiz Kongresi konferansı, Turkey, 11 - 12 November 2010, pp.323-330
- LXXXIII. **Influence Of Some Gear Design Parameters On Asymmetric Gear Tooth Strength**
Karpas F., Çavdar K., Babalık F. C.
The 3th International Conference Power Transmissions'09, Kallithea, Greece, 1 - 02 October 2009, pp.119-124
- LXXXIV. **A Weibull failure theory for contact loading in gears with asymmetric teeth**
Dhorje M., Ekwaro-Osire S., Khandaker M., KARPAT F.
2008 ASME International Mechanical Engineering Congress and Exposition, IMECE 2008, Boston, MA, United States Of America, 31 October - 06 November 2008, vol.16, pp.181-186
- LXXXV. **DYNAMIC ANALYSIS OF HIGH-CONTACT-RATIO SPUR GEARS WITH ASYMMETRIC TEETH**
KARPAT F., Ekwaro Osire S.
IMECE 2008: MECHANICAL SYSTEMS AND CONTROL, VOL 11, Boston, United States Of America, 31 October - 06 November 2008, pp.285-291
- LXXXVI. **An Inverse Problem Technique for Spur Gears with Asymmetric Teeth**
Ekwaro Osire S., Karpas F., Durukan İ., Alemayehu F. M., Cardenas Garcia J.
Proceedings of the 2009 SEM Annual Conference Exposition, New Mexico, United States Of America, 1 - 03 June 2009, pp.399-400
- LXXXVII. **Wear of Involute Spur Gears With Asymmetric Teeth Under Dynamic Loading**
Karpas F., Ekwaro Osire S.
ASME 2006 International Mechanical Engineering Congress and Exposition, Illinois, United States Of America, 10 - 15 November 2006, pp.37-45
- LXXXVIII. **Influence Of Tip Relief Modification On The Wear Of Spur Gears With Asymmetric Teeth**

Karpat F., Ekwaro Osire S.

Society of Tribologists and Lubrication Engineers (STLE)'s 2007 Annual Meeting Exhibition, Pennsylvania, United States Of America, 6 - 10 May 2007, pp.1-8

LXXXIX. Asimetrik Evolvent Diş Sahip Düz Dişli Çarkların Bilgisayar Destekli Parametrik Analizi

Karpat F., Çavdar K.

TİMAK Tasarım İmalat Analiz Kongresi konferansı, Balıkesir, Turkey, 26 - 27 April 2006, pp.65-76

XC. An Investigation on Dynamic Analysis of Involute Spur Gears With Asymmetric Teeth: Dynamic Load And Transmission Errors

Karpat F., Çavdar K., Babalık F. C.

The 2nd International Conference Power Transmissions'06, Novi-Sad, Serbia, 25 - 26 April 2006, pp.69-73

XCI. Experimental studies on galling onset in OCTG connections - A review

Ekwaro-Osire S., Karpat F.

2006 ASME International Mechanical Engineering Congress and Exposition, IMECE2006, Chicago, IL, United States Of America, 5 - 10 November 2006

XCII. Probabilistic analysis of MEMS asymmetric gear tooth

KARPAT F., Ekwaro-Osire S., Khandaker M.

2006 ASME International Mechanical Engineering Congress and Exposition, IMECE2006, Chicago, IL, United States Of America, 5 - 10 November 2006

XCIII. Asansör Kabin Taşıyıcıların Sonlu Elemanlar Yöntemi Yardımıyla Analizi

Karpat F., Çavdar K., Babalık F. C.

TMMOB Makine Müh. Odası II. İletim Teknolojileri Kongre ve Sergisi, İstanbul, Turkey, 27 - 28 May 2005, pp.105-117

XCIV. Computer aided analysis of involute spur gears with asymmetric teeth

Karpat F., Cavdar K., Babalık F.

International Conference on Gears, Garching, Germany, 14 - 16 September 2005, vol.1904, pp.145-163

XCV. Dişli Çark Mekanizmalarının Bilgisayar Yardımıyla Boyutlandırılması

Karpat F., Çavdar K.

Makine İmalat Teknolojileri Sempozyumu ve Sergisi, Konya, Turkey, 14 - 15 October 1999, pp.60-67

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, TUBİTAK Project |
| 2020 - 2027 | Helikopter Dişli Kutularında Kullanılabilecek Hibrit Dişli Çarkların Prototip İmalatı ve Optimizasyonu, TUBİTAK Project |
| 2022 - 2026 | TÜBİTAK 1004 (Mükemmeliyet Merkezi Destek Programı) Elektrikli Taşıtlar İçin Batarya Teknolojileri Araştırma ve Geliştirme Platformu (BATEG), TUBİTAK Project |
| 2018 - 2025 | Planet dişli mekanizmaları için sayısal ve deneysel yöntemler kullanılarak yeni bir dişli çark aşınma modelinin geliştirilmesi., TUBİTAK Project |
| 2023 - 2024 | OTOBÜS DİRENGENLİĞİNİN NÜMERİK OLARAK İNCELENMESİ , Company |
| 2023 - 2024 | Lightening the BRT Body Carcass by Performing Finite Element Analysis, TUBİTAK Project |
| 2022 - 2024 | SALINCAK KOLU TASARIMI ve YAPISAL OPTİMİZASYONU, TUBİTAK Project |
| 2023 - 2023 | Sürücü Koltukları İçin Tasarlanmış Adaptif Bir Negatif Rijitlik Mekanizmasının Deneysel Olarak İncelenmesi, TUBİTAK Project |
| 2022 - 2023 | Asimetrik Profilli Düz Dişli Çarklarda Diş Dibi Çatlak Hasarının Tespiti İçin Makine Öğrenmesi Esaslı Güvenilir Bir Durum İzleme Yönteminin Geliştirilmesi, TUBİTAK Project |
| 2022 - 2023 | Yüksek Güvenirlğe Sahip Otopark Sistemlerinin Geliştirilmesi, Kobi |

| | |
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| 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 DIŞLI 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

Patent

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., 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

Scientific Refereeing

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

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

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| 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 |

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| 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 Consultations

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

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|----------------|---|
| 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 |

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| 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

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| 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

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| 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

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| 2020 - Continues | Governorship, Bursa Uludağ University, Makina Mühendisliği |
| 2019 - Continues | Company, Advances in Mechanical Engineering (Journal), Advances in Mechanical Engineering (Journal) |
| 2018 - Continues | Chamber of Commerce, Bursa Uludağ University, Makina Mühendisliği |
| 2018 - Continues | BTSO |
| 2011 - Continues | Uludağ Üniversitesi |
| 2011 - Continues | Uludağ Üniversitesi |
| 2008 - 2011 | Uludağ Üniversitesi |
| 1998 - 2008 | Uludağ Üniversitesi |